

# CATALOGUE

UNIVERSITY OF WASHINGTON  
FOR 1926-1927

ANNOUNCEMENTS  
FOR 1927-1928

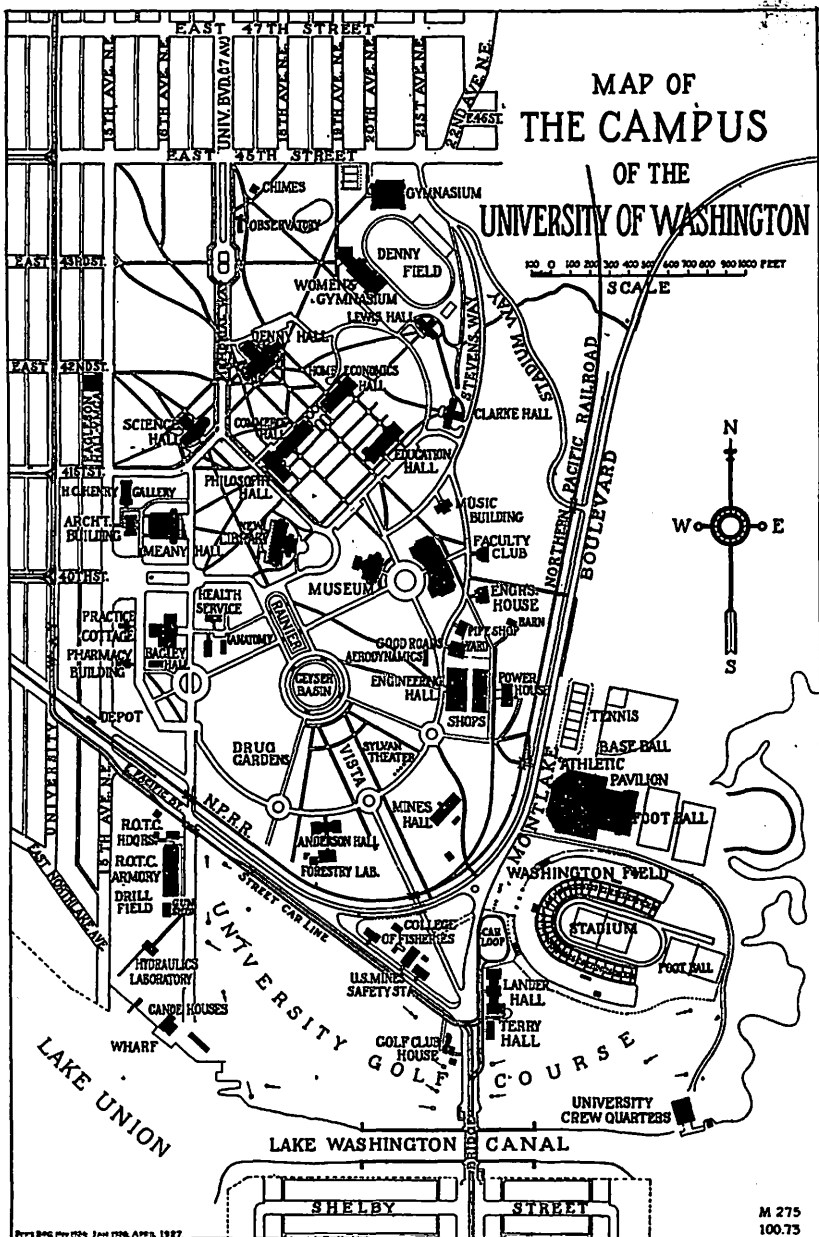


SEATTLE, WASHINGTON

Seattle  
University of Washington Press  
1927

### NOTICE

The University and its various colleges and schools reserve the right to change the rules regulating admission to, instruction in and graduation from the University and its various divisions, and any other regulations affecting the student body. Such regulations shall go into force whenever the proper authorities may determine, and shall apply not only to prospective students, but also to those who may, at such time, be matriculated in the University. The University also reserves the right to withdraw courses at any time.



The University campus, comprising 582 acres, lies between Fifteenth Avenue Northeast and Lake Washington, and East Forty-fifth Street and Lake Union. Ravenna and Cowen Park cars run one block west of the campus. The offices of administration are located in Education Hall and are best reached by leaving the car at East Forty-second Street and University Way.

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Note.—See Index, page 446, for detailed information.

# THE UNIVERSITY CALENDAR

1927-1928

## AUTUMN QUARTER

Examination for admission.....Wednesday, Thursday, and Friday, September 21, 22, 23.  
Latest day for securing reserved sections by payment of fees..Saturday, Sept. 24, 4:30 p.m.  
Latest day for registration without penalty.....Wednesday, September 28, 4:30 p.m.  
Freshman Week.....Begins Thursday, September 20, 8:30 a.m. and ends Saturday, October 1, 10:30 p.m.  
Instruction begins.....Monday, October 3, 8 a.m.  
Regular meeting of faculty.....Tuesday, October 25, 4 p.m.  
Latest day for receiving withdrawals without grade.....Monday, October 31, 5 p.m.  
Thanksgiving recess begins.....Wednesday, November 23, 6 p.m.  
Thanksgiving recess ends.....Monday, November 28, 8 a.m.  
Regular meeting of faculty.....Tuesday, December 6, 4 p.m.  
Examination for admission.....Wednesday, Thursday, Friday, December 14, 15, 16.  
Instruction ends.....Tuesday, December 20, 6 p.m.

## WINTER QUARTER

Latest day for securing reserved sections by paying fees...Wednesday, Dec. 21, 4:30 p.m.  
Latest day for registration without penalty.....Saturday, December 31, 4:30 p.m.  
Instruction begins.....Tuesday, January 3, 8 a.m.  
Regular meeting of faculty.....Tuesday, January 24, 4 p.m.  
Latest day for receiving withdrawals without grade.....Tuesday, January 31, 5 p.m.  
Washington's birthday (holiday).....Wednesday, February 22.  
Regular meeting of the faculty.....Tuesday, March 6, 4 p.m.  
Examination for admission.....Monday, Tuesday, Wednesday, March 12, 13, 14.  
Instruction ends.....Friday, March 16, 6 p.m.

## SPRING QUARTER

Latest day of securing reserved sections by paying fees....Saturday, March 17, 4:30 p.m.  
Latest day for registration without penalty.....Saturday, March 24, 4:30 p.m.  
Instruction begins.....Monday, March 26, 8 a.m.  
Regular meeting of faculty.....Tuesday, April 17, 4 p.m.  
Latest day for receiving withdrawals without grade.....Monday, April 23, 5 p.m.  
Campus day.....Friday, April 27.  
Regular meeting of faculty.....Tuesday, May 29, 4 p.m.  
Memorial day (holiday).....Wednesday, May 30  
Examinations for admission.....Wednesday, Thursday, Friday, June 6, 7, 8.  
Instruction ends.....Friday, June 8, 6 p.m.  
Class day and Alumni day.....Saturday, June 9.  
Baccalaureate Sunday.....Sunday, June 10.  
Commencement.....Monday, June 11.

## SUMMER QUARTER

Latest day for securing reserved sections by paying fees....Saturday, June 9, 4:30 p.m.  
Instruction begins.....Tuesday, June 12, 8 a.m.  
Latest day for receiving withdrawals without grade  
(First term).....Tuesday, June 26, 5 p.m.  
Independence day (holiday).....Wednesday, July 4.  
Latest day for receiving withdrawals without grade  
(Full quarter).....Saturday, July 7, 12 m.  
First term ends.....Tuesday, July 17, 6 p.m.  
Second term begins.....Wednesday, July 18, 8 a.m.  
Examination for admission.....Wednesday, Thursday, Friday, July 18, 19, 20.  
Latest day for receiving withdrawals without grade  
(Second term).....Wednesday, August 1, 5 p.m.  
Instruction ends.....Wednesday, August 22, 6 p.m.

## THE BOARD OF REGENTS

A. H. B. JORDAN, President.....	Everett
Term ends March, 1928	
J. D. FARRELL, Vice-President.....	Seattle
Term ends March, 1929	
PAUL H. JOHNS, Secretary.....	Tacoma
Term ends March, 1932	
SIDNEY B. LEWIS.....	Seattle
Term ends March, 1928	
JOSEPH EDWARD LEASE.....	Centralia
Term ends March, 1929	
J. M. PERRY.....	Yakima
Term ends March, 1932	
ROSCOE A. BALCH.....	Spokane
Term ends March, 1933	

HERBERT THOMAS CONDON, Assistant Secretary to the Board

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## COMMITTEES OF THE BOARD OF REGENTS

BIOLOGICAL STATION.....	Lewis (Chairman), Perry, Lease
BUILDINGS AND GROUNDS.....	Johns (Chairman), Farrell, Jordan
COOPERATIONS.....	Perry (Chairman), Farrell, Lewis
FINANCE.....	Johns (Chairman), Farrell, Balch
LANDS AND DEMONSTRATION FOREST.....	Balch (Chairman), Lewis, Jordan
METROPOLITAN LEASE.....	Farrell (Chairman), Jordon, Johns
STUDENT WELFARE.....	Perry (Chairman), Balch, Lease

## OFFICERS OF ADMINISTRATION—1926-1927

### THE UNIVERSITY

DAVID THOMSON, B.A.....	Acting President of the University Education Hall
FREDERICK MORGAN PADELFORD, Ph.D.....	Acting Dean of Faculties Education Hall
HERBERT THOMAS CONDON, LL.B.....	Comptroller Education Hall
EDWARD BICKNELL STEVENS, A.M.....	Registrar Education Hall
JAMES EDWARD GOULD, A.M.....	Dean of Men Education Hall
WINNIFRED SUNDERLIN HAGGETT, A.M.....	Dean of Women Education Hall

### THE FACULTIES

IRVING MACKEY GLEN, A.M.....	Dean of the Faculty of Fine Arts Music Building
FREDERICK MORGAN PADELFORD, Ph.D.....	Dean of the Faculty of Letters Denny Hall
HENRY LANDES, A.M.....	Dean of the Faculty of Science Science Hall
CHARLES EMANUEL MARTIN, Ph.D.....	Dean of the Faculty of Social Science Philosophy Hall
CARL EDWARD MAGNUSSON, Ph.D., E.E.....	Dean of the Faculty of Technology Engineering Hall

### THE COLLEGES AND SCHOOLS

DAVID THOMSON, B.A.....	Dean of the College of Liberal Arts Denny Hall
HENRY LANDES, A.M.....	Dean of the College of Science Science Hall
WILLIAM EDWARD COX, A.M.....	Dean of the College of Business Administration Commerce Hall
FREDERICK ELMER BOLTON, Ph.D.....	Dean of the School of Education Education Hall
CARL EDWARD MAGNUSSON, Ph.D., E.E.....	Dean of the College of Engineering Engineering Hall
IRVING MACKEY GLEN, A.M.....	Dean of the College of Fine Arts Music Building
JOHN NATHAN COBB.....	Dean of the College of Fisheries Fisheries Hall
HUGO WINKENWERDER, M.F.....	Dean of the College of Forestry Anderson Hall
LEO BORAH, A.M.....	Acting Director of the School of Journalism Commerce Hall
ALFRED JOHN SCHWEPPE, A.M., LL.B.....	Dean of the School of Law Commerce Hall
WILLIAM ELMER HENRY, A.M.....	Dean of the Library School Library
MILNOR ROBERTS, A.B.....	Dean of the College of Mines Mines Hall
CHARLES WILLIS JOHNSON, Ph.C., Ph.D.....	Dean of the College of Pharmacy Bagley Hall
FREDERICK MORGAN PADELFORD, Ph.D.....	Dean of the Graduate School Denny Hall

### THE EXTENSION SERVICE

ALEXANDER CRIPPEN ROBERTS, Ph.D.....	Director Education Hall
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## Officers of Administration

9

### ASSISTANT ADMINISTRATIVE OFFICERS—1926-1927

Lillian Brown Getty.....	Secretary to the President
Foster McGovern, B.B.A.....	Publications Secretary
May Ward, A.M.....	Assistant Dean of Women
Mary Lola Bash, A.B.....	Acting Assistant Dean of Women
Max Hipkoe.....	Assistant Purchasing Agent
William Beach Jones, A.B.....	Assistant to the Comptroller
Almee Wilson.....	Secretary to the Comptroller
Lola J. Wentworth, A.B.....	Secretary to the Dean of the Graduate School
Roberta W. Limbach.....	Secretary, Bureau of Appointments
Darwin Melsness, A.B.....	Director of Student Activities
Parker Collins, A.B.....	Assistant Dean of Men

### OFFICE OF THE REGISTRAR

Edwin Bicknell Stevens, A.M.....	Registrar
Ethel Orvis Reinhard, A.B.....	Assistant to the Registrar
Alice M. Ollis.....	Assistant for Schedules and Secretary to the Registrar
Frances M. Willard, A.B.....	Credentials Assistant
Elfreda Allen Smith, A.B.....	Registration Assistant
Minnie Louise Kraus, A.B.....	Graduation Assistant
Leah H. Pepper.....	Recording Assistant

### LIBRARY STAFF

William Elmer Henry, M.A. (Indiana).....	Librarian and Dean of the Library School
Charles Wesley Smith, A.B., B.L.S. (Illinois).....	Reference Librarian and Associate Professor of Library Science
Arthur Sidney Beardsley, LL.B., B.S. (Lib. Sci.) M.A. (Washington).....	Law Librarian
Marie Alphonso, A.B. (Nebraska), B.L.S. (Washington).....	Catalogue Librarian
Dorothy Baker, A.B., B.S. (Lib. Sci.) (Washington).....	Circulation Librarian
Marguerite Eleanor Putnam, A.B., B.S. (Lib. Sci.) (Washington).....	Order and Accession Librarian
Thelma Edwards, A.B., B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Catalogue Department
Lena Lucille Tucker, A.B., B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Catalogue Department
Mary Gladys Hoard, A.B., B.S. (Lib. Sci.), LL.B., LL.M. (Washington).....	Cataloguer, Law Library
Evangeline Turnbull, A.B. (Montana), B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Catalogue Department
Nikoline Fredrikke Kjosness, B.A. (Idaho), Certificate in Library Science (New York State Library School).....	Senior Assistant, Catalogue Department
Lydia May McCutchen, A.B. (Iowa) (Washington Library School).....	Senior Assistant, Order Department
Margaret Jones, A.B. (Washington).....	Senior Assistant, Order Department
Ida Paine Mutch, A.B. (Bates College), B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Order Department
Elva Batcheller, A.B., B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Reference Department
Ethel Christophers, Ph.B. (Wisconsin), B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Reference Department
Winnifred Jones, B.S. (Oregon Agricultural College), B.S. (Lib. Sci.) (Washington).....	Senior Assistant, Reference Department
Luella Larson, B.S., A.B. (Lib. Sci.) (Washington).....	Senior Assistant, Reference Department
Florence Angeline McMeekin, B.S. (Lib. Sci.) (Washington).....	Junior Assistant, Circulation Department
Grace Anna Fenwick Johnson, (University of Wisconsin Library School), (Washington).....	Junior Assistant, Circulation Department
Bertha Dewey Stone, B.S. (Lib. Sci.) (Washington).....	Junior Assistant, Circulation Department
Maude Moseley, B.S. (Lib. Sci.) (Washington).....	Junior Assistant, Order Department
Ruth Elinor Hale, A.B. (Washington).....	Junior Assistant, Order Department
Zoa Connolly, B.S. (Lib. Sci.) (Washington).....	Junior Assistant, Reference Department
Elsie Dagny Sporseen, B.S. (Lib. Sci.) (Washington).....	Junior Assistant, Reference Department

### THE MUSEUM

Frank Stevens Hall.....	Director of the Museum
Samuel F. Rathbun.....	Honorary Curator of Birds
Martha Flaubaut, A.B.....	Assistant

### THE EXTENSION SERVICE

Alexander Crippen Roberts, Ph.D.....	Director
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### ENGINEERING EXPERIMENT STATION

Carl Edward Magnusson, Ph.D. E.E.....	Director
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### PUGET SOUND BIOLOGICAL STATION

Theodore Christian Frye, Ph.D.....	Director
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<sup>1</sup>Absent on leave 1926-27.

## UNITED STATES ARMY RESERVE OFFICERS' TRAINING CORPS

James Francis Brady.....	Colonel, O.A.O.
Royal Kemp Greene.....	Major, O.A.O.
Henry Clinton Kress Muhlenberg.....	Major, Air Corps
Otto Harry Schrader.....	Major, O.A.O.
Keith Sumner Gregory.....	Major, U.S.A., Retired
Edgar Harrison Underwood.....	Captain, O.A.O.
Hugh Donald Adair.....	Captain, Infantry
Evan Kirkpatrick Meredith.....	Captain, Infantry
Laurin Lyman Williams.....	Captain, Infantry
Christian Hildebrand.....	First Lieutenant, Infantry
Charles Benton Franke.....	Warrant Officer, U.S.A., Retired
Harry Barre White.....	Warrant Officer, U.S.A.
Walter Lang.....	First Sergeant, D.E.M.L.
William F. Compton.....	Sergeant, D.E.M.L.
Ray A. Bailey.....	Sergeant, D.E.M.L.
Harry Beckett.....	Sergeant, D.E.M.L.
Harold A. Hansen.....	Sergeant, D.E.M.L.
Charles E. Freeman.....	Private First Class, D.E.M.L.
William H. Honens.....	Private First Class, D.E.M.L.

## UNITED STATES NAVAL RESERVE OFFICERS' TRAINING CORPS

James Perdue Olding.....	Commander
Eric Lloyd Barr.....	Lieutenant Commander
Paul Hildreth Rice.....	Lieutenant Commander
Roland B. Littell.....	Chief Yeoman
Malcolm Hamilton.....	Chief Gunner's Mate
Christian J. Willson.....	Chief Boatswain's Mate

## NORTHWEST EXPERIMENT STATION UNITED STATES BUREAU OF MINES

Byron Matthew Bird, B.S. (Met.E.).....	Superintendent
Harry Fagan Yancey, Ph.D.....	Associate Chemist
Kenneth Alexander Johnson, B.S.....	Junior Chemist

## STATE CHEMIST

Charles Willis Johnson, Ph.C., Ph.D.....	State Chemist
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## BUILDINGS AND GROUNDS

Frederic Elwell .....	Superintendent
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## UNIVERSITY DINING AND RESIDENCE HALLS

Ruth Margaret Lusby, A.M.....	Supervisor of Dining Halls
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## UNIVERSITY HEALTH SERVICE

David Connolly Hall, M.D.....	University Health Officer
Hannah Johnson, M.D.....	Medical Examiner for Women
Maude Reeder, R.N.....	Resident Nurse
Pauline Price, R.N.....	Public Health Nurse

## THE UNIVERSITY FACULTY—1926-1927

David Thomson.....	<i>Acting President of the University</i>
Frederick Morgan Padelford.....	<i>Acting Dean of Faculties</i>
Edwin Bicknell Stevens.....	<i>Registrar</i>

The University Faculty consists of instructors, associates, and all teachers of professorial rank. It is made up of five special faculties, constituted of the members of various departments as follows: (1) Faculty of Fine Arts: Architecture, Dramatic Art, Music, Painting, Sculpture and Design; (2) Faculty of Letters: Classical Languages, English, Germanic Languages, Liberal Arts, Oriental History, Romanic Languages, Scandinavian Languages; (3) Faculty of Science: Anatomy, Astronomy, Bacteriology, Botany, Chemistry, Geology, Home Economics, Mathematics, Nursing, Pharmacy, Physical Education and Hygiene, Physics, Physiology, Zoology; (4) Faculty of Social Science: Anthropology, Economics and Business Administration, Education, History, Journalism, Law, Library Science, Philosophy, Political Science, Psychology, Sociology; (5) Faculty of Technology: Aeronautical Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Fisheries, Forestry, Mechanical Engineering, Military Science, Mining and Metallurgy, Naval Science.

In this list the names of the faculty are arranged in five groups—professors, associate professors, assistant professors, lecturers and associates, and instructors—followed by the names of the assistants and teaching fellows. In each of the five groups the names occur in the order of academic seniority. An alphabetical list of the faculty is given on page 15.

### PROFESSORS

Henry Landes	Hugo Winkenwerder	Edgar Dunnington Randolph
Edmond Stephen Meany	Vernon Louis Parrington	Edgar Allen Loew
Caroline Haven Ober	Frederick Elmer Bolton	Joseph Daniels
Trevor Kincaid	Edwin John Vickner	Friedrich Kurt Kirsten
Frederick Morgan Padelford	Effie Isabel Ralitt	Winnifred Sunderlin Haggett
Milnor Roberts	*William Franklin Allison	Ellas Treat Clark
William Savery	Stevenson Smith	William Edward Cox
Frederick Arthur Osborn	Clark Prescott Bissett	Herbert Ellsworth Cory
David Thomson	Allen Rogers Benham	*Carl Spencer Dakan
Charles Willis Johnson	Leslie James Ayer	James Francis Brady
Pierre Joseph Frein	*Fred Carlton Ayer	George Samuel Wilson
Theodore Christian Frye	John Nathan Cobb	Charles William Harris
Robert Edouard Moritz	William Maurice Dehn	Alexander Crippen Roberts
Carl Edward Magnusson	Howard Woolston	Charles Emanuel Martin
Harvey Lantz	*Matthew Lyle Spencer	Wilfred Eldred
Everett Owen Eastwood	George McPhail Smith	Roy Martin Winger
William Elmer Henry	Burt Persons Kirkland	Charles Wesley Smith
David Connolly Hall	*Howard Thompson Lewis	Allen Fuller Carpenter
Herbert Henry Gowen	James Edward Gould	Edward Godfrey Cox
*Oliver Huntington Richardson	Charles Edwin Weaver	Roderick Duncan McKenzie
Ivan Wilbur Goodner	George Wallace Umphrey	Alfred John Schweppe
Irving Mackay Glen	*Carl Frelinghuysen Gould	James Perdue Olding
Charles Church More	John Locke Worcester	Crawford Morrison Bishop
Henry Kretzer Benson	Howard Hall Preston	Harlan Thomas
John Weinzirl		

### ASSOCIATE PROFESSORS

Loren Douglas Milliman	Eldin Verne Lynn	Samuel Herbert Anderson
Thomas Kay Sidey	Henry August Langenhan	Bror Leonard Grondal
Edward McMahon	Walter Isaacs	Edwin Ray Guthrie
Otto Patzer	Macy Millmore Skinner	Hewitt Wilson
Henry Louis Brakel	Thomas Gordon Thompson	Mary Emma Gross
George Burton Rigg	Robert William Jones	John Earl Guberlet*
Harry Edwin Smith	Charles Raymond Atkinson	Karl Elias Leib
Arthur Melvin Winslow	Grace Goldena Denny	Frederick Wesley Orr
Charles Goggio	Charles Culbertson May	Theresa Schmid McMahon
Herman Vance Tartar	Henry Alfred Burd	Frances Dickey Newenham
Moritz Rosen	William Henry George	Joseph Barlow Harrison
Albert Franz Venino	Dudley David Griffith	John Jessup
Carl Paige Wood		

\*Absent on leave 1926-27.

\*Absent on leave Winter and Spring Quarters.

\*Resigned December 31, 1926.

\*Absent on leave Fall Quarter.

\*Died, July 7, 1927.

## ASSISTANT PROFESSORS

'Edwin James Saunders  
George Irving Gavett  
Eli Victor Smith  
Harvey Bruce Densmore  
Clarence Raymond Corey  
Ernest Otto Eckelman  
Charles Louis Helmling  
John William Hotson  
Lewis Irving Nelkirk  
Virginia Cunningham Patty  
Ira Leonard Collier  
George Edward Goodspeed  
Curtis Talmadge Williams  
James George Arbuthnot  
Keith Sumner Gregory  
Louis Peter De Vries  
Leslie Spier  
'Henry Stephen Lucas  
Louise Van Ogle  
Gordon Russell Shuck  
Homer Ewart Gregory  
Addie Jeanette Bliss  
Edgar Harrison Underwood

Gilbert Simon Schaller  
Otto Harry Schrader  
August Dvorak  
Rachel Emilie Hoffstadt  
'Frank Joseph Laube  
Glenn Arthur Hughes  
Elgin Roscoe Wilcox  
Henry Clinton Mublenberg  
Robert Cunningham Miller  
Royal Greene  
Hugh Adair  
Forest Jackson Goodrich  
Ralph Mason Blake  
Harry John McIntyre  
Leo Arthur Borah  
Warren Lord Beuschlein  
Arthur Phillip Herrman  
Lancelot Edward Gowen  
Lyman Crowell Boynton  
'George Andrew Lundberg  
Norman Sylvester Hayner  
Evan Kirkpatrick Meredith  
Dudley Pratt

Jessie Irene Rowntree  
Laurin Lyman Williams  
Frank Melville Warner  
Sargent Powell  
Bryan Towne McMinn  
Robert Harold Gray Edmonds  
George Lisle Hoard  
George Sherman Smith  
Donald Russell Crawford  
Alfred Lawrence Miller  
Kenneth Carey Cole  
Read Bain  
Charles Wilson Lawrence  
Eldon Griffin  
John Perry Ballantine  
Eric Lloyd Barr  
Herman Zanstra  
John Everette Partington  
Clarence Thomas Parks  
Albert Lovejoy  
Leland Hargrave Creer  
Emil Alexander Lundkvist  
Paul Hildreth Rice

## LECTURERS AND ASSOCIATES

Joseph Grattan O'Bryan  
Frederick Powell  
James McConahay  
James Postlewait Robertson  
Pearce Crane Davis  
Cornelius Osseward  
Gustaf Alfred Magnusson  
Oscar Eldridge Draper  
Otis Bedney Sperlin  
Cecil Leonard Hughes  
Arthur Truax  
Edward Noble Stone  
Minnie Bell Burdon  
Eugenie Worman  
Ambrose Patterson  
Ethel Sanderson Radford  
Pamella Pearl Jones  
Sylvia Finlay Kerrigan  
Bertha Almen Vickner  
Elizabeth Soule  
Clarence Edmundson  
Rachel Elizabeth Hamilton  
Enoch Bagshaw  
Frank Chester Van de Walker  
Arthur Rudolph Jerbert

Iva Buchanan  
Russell Stanley Callow  
Dorsett Graves  
Jane Sorrie Lawson  
Alice Coleman Bogardus  
Marie Alfonso  
Marguerite Putnam  
Arlien Johnson  
Luella Venino  
Clara Bell Lynch  
Wayne Campbell Sutton  
'Lou Eastwood Anderson  
Amy Violet Hall  
Lurline Violet Simpson  
Kirsten Larsson Newberry  
Burton Wakeley James  
Elenora Wesner  
Laura Edna Mabon  
Margaret Crawford  
John Adams  
Lois Eula Brown  
Lucy Wallrich Davidson  
Edgar Marlon Draper  
Kirby Jackson  
Hunter Campbell Lewis

Thomas Francis Mundle  
Harriet Vivian Snidow  
Edward Charles Wagenknecht  
Bart Spellman  
Paul Higgs  
Frank Hartmond Hamack  
Leone Helmich  
Ottile Terzoeff  
Anne Elizabeth Hall  
Erma Nelson  
William Wilson  
Calvin Schmid  
Marion Marguerite Martin  
Lawrence Edward McCarthy  
Adele Reeves  
Genevieve Knight Ballaine  
Paul Gustin  
Hans Blerd  
Earle Wesley House  
Sheldon Latta Glover  
Charles Southwick  
Ardie Campbell Edwards  
Eugenie Fuller  
Raymond Forrest Farwell  
Laura Whitmire

## INSTRUCTORS

Walter Bell Whittlesey  
'Alletta Gillette  
Albert Porter Adams  
James Baker Hamilton  
Martha Dresslar  
George Kirchner  
Ruth Margaret Lusby  
Mary Laura Ald  
Helen Rhodes  
Hernance Mullemelster  
Sergius Amalleff  
Hiram Martin Chittenden, Jr.  
Hope Lucille Foote

Cecil Eden Quainton  
Matilda Jane McGownd  
Roy Eric Lindblom  
Austin Eastman  
George Edward Hawthorn  
Joseph Paul Dodd  
Frederick Burt Farquharson  
Carlos Garcia-Prada  
Christian Hildebrand  
Emily Josephine Kramer  
Robert Van Horn  
Clyde Myron Cramlet  
Frederick Valentine Lofgren

Irene Margaret Neilson  
Edith Dobie  
Victorian Sivertz  
William Joseph Norton, Jr.  
Norman Donald Jarvis  
Byron Christian  
Helen Marian Buck  
Henry Gerald Robinson  
Frederick Chamley Smith  
Ruth Worden  
Sophus Keith Winther  
Theodore Bergstrom  
John Barnsley Jones

<sup>1</sup>Absent on leave 1926-27.

<sup>2</sup>Died October 18, 1926.

<sup>3</sup>Services terminated February 14, 1927.

<sup>4</sup>Resigned March 18, 1927.



## ASSISTANTS

*Gatzert Foundation*

Madge Wilkinson, M.S.

*Music*

Louise Dow Oliver, B.Mus.  
 Iris Fern Canfield, B.Mus.  
 Grace Bullock, A.B.  
 Nina Burns, B.Mus.  
 Ruth Bamford, B.Mus.  
 Marjorie Kathleen McDonald, A.B.

*Assistant State Chemists*

Lucille Turnaclyff, B.S.  
 Russell Arnon Cain, B.S.

*English*

Dorothy Gene Haggett, A.B.  
 Loren Milliman, A.B.  
 Karl Albert Windeshelm, A.B.  
 Winfred Bird, A.B.  
 Max Donald Cornu, M.A.  
 Edwin Harold Eby, Ph.B.  
 Sarah Mark, A.B.  
 Martha Nix, M.A.  
 Harold Wave Whicker, A.B.

*Architecture*

Albert M. Allen, B.S.

*German*

Felicie Ankele, M.A.

*Home Economics*

Kathryn Bele Niles, B.S.  
 Cassie Paine Small  
 Alice S. Houston, B.S.

*Business Administration*

Helen Swift, B.Ed.  
 Ruth Aeneas Grant, B.B.A.  
 Ralph H. Lamont, B.B.A.  
 Curtis Kelly, B.A.  
 Charles E. Calhoun, A.B.  
 Vernor J. Fitzgerald, B.B.A.  
 Gertrude Ford, A.B.

*Golf*

William Jefferson

*Mechanical Engineering*

Oscar Connors, B.S.

*Philosophy*

Clayton Shaw, A.B.

*Psychology*

Thomas Hermans, B.S.

*Shop Engineering*

Clayton Sullivan

## TEACHING FELLOWS

*Bacteriology*

Emma Jo Stewart, M.S.

*Botany*

Helen Tyson Hart, A.B.  
 Vera Stedman, B.S.  
 Dorr Yeager, A.B.

*Business Administration*

James Aitken, B.A.  
 Grace Baumgartner, M.A.  
 Thomas Bibb, A.B.  
 Kenneth Cariston, B.B.A.  
 George Glenn Holmes, M.A.  
 Verner Johnson, B.A.  
 Charles Miller, B.B.A.  
 Harry Purdy, A.B.

*Chemistry*

Gordon Byrkit, B.A.  
 Anna Edsall Church, B.S.  
 Isabel Susan Colman, B.S.  
 Richard Damerell, M.S.  
 Meryl Deming, B.A.  
 Lacy Evans, B.S.  
 Alton Robinson, B.S.  
 Victor Vellman, A.B.  
 Elizabeth Whelan, B.S.

*Dramatic Art and English*

Fred Blanchard, A.B.

*English*

Olive Armstrong, B.S.  
 William Banks, A.B.  
 Maude Beal, A.B.  
 Marguerite Brethorst, A.B.  
 Jennie Burgess, A.B.  
 Horace Chambers, A.B.  
 Herbert Childs, A.B.  
 Victor Christianson, M.A.  
 Lou Ena Clark, A.B.  
 Elizabeth Welkel Cornu, A.B.  
 Martha Bernice Kirkham, A.B.  
 Cecyl Lovejoy, A.B.  
 James Norie, A.B.  
 Marian Robb, A.B.  
 Elaine Swenson, B.Mus.  
 Margaret Walters, Ph.D.  
 Mary Margaret Wentworth, A.B.  
 Virginia Westfall, A.B.  
 Anne Windhausen, A.B.

*French*

Laura Dorothy Cartwright, A.B.  
 Ruth Williams, A.B.

*Geology*

Aaron Waters, B.S.  
 Andrew Weymouth, B.S.

*Mathematics*

John Biggerstaff, A.B.  
 Ruth Church, B.S.  
 Martha Leacenworth Hicks, A.B.  
 Vera Luse, B.S.  
 Betty Neville, A.B.

*Painting, Sculpture and Design*

Doris Perkins, B.F.A.

*Pharmacy*

Caty Braford, B.S.  
 Arnold Lehman, M.S.  
 Leon Richards, B.S.  
 Louis Rising, M.S.

*Physics*

Madalyn Avery, B.S.  
 William Blenkney, B.S.  
 Victor Hicks, A.B.  
 Lewis Larrick, B.A.  
 Louis Marick, B.S.  
 Floyd Ostensen, B.S.

*Political Science*

Paul Bachman, M.A.  
 Florence Bain, A.B.  
 Kenneth Warner, A.B.

*Psychology*

Harold Gullicksen, A.B.  
 Gertrude Sennes, A.B.

*Romantic Languages*

Virginia Boutelle, A.B.  
 Clotilde Wilson, A.B.

*Sociology*

Joseph Cohen, A.B.  
 Elton Guthrie, A.B.

*Spanish*

Dorothy Cassidy, B.S.  
 Leon Grove, A.B.

*Zoology*

Julia Goodsell, B.S.  
 Lawrence Van Tilborg, B.S.

## University of Washington

## GRADUATE SCHOLARS

*Business Administration*

Maribeth Gerbel, A.B.  
 Alice Hanson, A.B.  
 Martin Lindahl, A.B.  
 Charles Miller, B.B.A.  
 Sara Smedley Vance, B.S.

*Classical Languages*

Juanita Borah, A.B.

*Education*

Mae Belknap, A.B.  
 Jane Crow, B.S.  
 Lena Mahone, A.B.

*English*

Jane Ford Adams, B.A.  
 Flora Campbell, A.B.  
 Stella Lewis, M.A.

*History*

Joyce Gowen, A.B.  
 Helen Grant, A.B.  
 Anita Graybill, A.B.  
 Josephine Silvers, A.B.

*Journalism*

Mildred Frudenfeld, A.B.

## LORETTA DENNY FELLOWS

*Chemistry*

Luella L. Kretchmar, B.S.

*Education*

Yale Yih Tsang, A.B.

*English*

Melvin Miller Rader, A.B.

## ARTHUR A. DENNY FELLOWS

*Civil Engineering*

William Rienze Visser, B.S. (C.E.)

*Education*

Wallace Theodore Wait, B.S.

*English*

Garland Oral Ethel, A.B.

*History*

Geraldine Doheny, A.B.

*Pharmacy*

Frank Andrew Lee, M.S.

## RESEARCH FELLOWS

*Mining (Cer.E.)*

Vance Cartwright, B.S. (Chem.E.)

*Mining (Coal Min. E.)*

Howard S. Davis, B.S. (Min.E.)

*Mining (Cer.E.)*

Howard H. Mansur, B.S. (Chem.E.)

## DUPONT FELLOWSHIP

*Chemistry*

James Richard Lorah, M.S.

## BON MARCHE INDUSTRIAL FELLOWSHIP

*Textiles*

Hazel Rennoe, B.S.

## EFFIE I. RAITT RESEARCH FELLOWSHIP IN NUTRITION

*Nutrition*

Alice O. Houston, B.S.

## GRACE G. DENNY RESEARCH FELLOWSHIP IN HOUSEHOLD BUDGETING

*Household Budgeting*

Marie Madden Power, B.A.

## COLUMBIA UNIVERSITY FELLOWSHIP IN MINING ENGINEERING AND CHEMISTRY

Not awarded.

# ALPHABETICAL LIST OF THE UNIVERSITY FACULTY—1926-1927

- <sup>1</sup>Henry Suzzallo.....*President of the University*  
A.B., Stanford, 1899; A.M. Columbia, 1902; Ph.D., 1905; LL.D., California, 1918;  
LL.D., British Columbia, 1925.
- <sup>2</sup>David Thomson.....*Acting President*  
B.A., Toronto, 1892.
- Hugh Donald Adair, Captain, Infantry.....*Assistant Professor of Military Science and Tactics*  
Graduate, Wentworth Military Academy, 1912.
- Albert Porter Adams.....*Instructor in Music*
- John Adams.....*Associate in English*  
A.B., Michigan, 1920; M.A., 1922.
- Mary Laura Aid.....*Instructor in Physical Education*  
A.B., Wisconsin, 1920.
- Marie Alfonso.....*Associate in Library Economy*  
A.B., Nebraska, 1913; B.L.S., Washington, 1921.
- William Franklin Allison.....*Professor of Municipal and Highway Engineering*  
B.S., South Dakota State College, 1895; B.S. (C.E.), Purdue, 1897; C.E., Cornell,  
1904
- Sergius Amalleff.....*Instructor in Engineering*  
B.S. (M.E.), Washington, 1923.
- Lou Eastwood Anderson.....*Associate in Physical Education*  
B.S., Washington, 1923.
- Samuel Herbert Anderson.....*Associate Professor of Physics*  
A.B., Park College, 1902; A.M., 1903; Ph.D., Illinois, 1912.
- James George Arbuthnot.....*Assistant Professor and Director of Physical Education for Men*  
B.S., Kansas State College, 1904.
- Charles Raymond Atkinson.....*Associate Professor of Business Administration*  
A.B., George Washington, 1908; A.M., Columbia, 1910; Ph.D., 1911.
- Fred Carleton Ayer.....*Professor of Education*  
B.S., Upper Iowa, 1902; M.S., Georgetown, 1905; Ph.D., Chicago, 1915.
- Leslie James Ayer.....*Professor of Law*  
B.S., Upper Iowa, 1899; J.D., Chicago, 1906.
- Enoch Bagshaw.....*Associate in Physical Education*  
B.S. (Met.E.), Washington, 1908.
- Read Bain.....*Assistant Professor of Sociology*  
A.B., Willamette, 1916; A.M., Oregon, 1920; Ph.D., Michigan, 1926.
- Genevieve Knight Ballantine.....*Associate in Latin*  
A.B., Olivet College, 1897.
- John Perry Ballantine.....*Assistant Professor of Mathematics*  
A.B., Harvard, 1918; Ph.D., Chicago, 1923.
- Eric Lloyd Barr, Lieutenant Commander, U.S.N.....*Assistant Professor of Naval Science*  
*and Tactics*  
Graduate, U.S. Naval Academy, 1911.
- Arthur Sydney Beardsley.....*Lecturer on Law*  
LL.B., Washington, 1918; B.S., 1924; A.M., 1925.
- Allen Rogers Benham.....*Professor of English*  
A.B., Minnesota, 1900; A.M., 1901; Ph.D., Yale, 1905.
- Henry Kreitzer Benson.....*Professor of Chemical Engineering*  
A.B., Franklin and Marshall, 1899; A.M., 1902; D.Sc., 1926; Ph.D., Columbia,  
1907.
- Theodore Bergstrom.....*Instructor in Engineering*  
B.S. (E.E.), Washington, 1924.
- Warren Lord Beuschlein.....*Assistant Professor of Chemical Engineering*  
B.S. (Ch.E.), California Institute of Technology, 1920; M.S. (Ch.E.), Washington,  
1925.
- Hans Blerd.....*Associate in Maritime Commerce*  
Danish Government Navigation School, Denmark.
- Crawford Morrison Bishop.....*Professor of Law*  
A.B., Dartmouth, 1906; LL.B., Maryland, 1909; A.M., Columbia, 1917.

<sup>1</sup>Services terminated December 1, 1927.

<sup>2</sup>Appointed October 4, 1926.

- Clark Prescott Blissett.....*Professor of Law*  
A.B., Hobart College, 1898; LL.D., Jesuit College, 1898; LL.D., Minnesota, 1909;  
Lit.D., Lincoln Memorial University, 1926; LL.D., Knox, 1926.
- Ralph Mason Blake.....*Assistant Professor of Philosophy*  
A.B., Williams College, 1911; A.M., Harvard, 1912; Ph.D., 1915.
- Addie Jeannette Bliss.....*Assistant Professor of Home Economics*  
A.B., Washington, 1906; A.M., Columbia, 1917.
- Alice Coleman Bogardus.....*Associate in Music*  
B.L., Mills, 1913.
- Frederick Elmer Bolton.....*Professor of Education and Dean of the School of Education*  
B.S., Wisconsin, 1893; M.S., 1896; Ph.D., Clark, 1898.
- Leo Arthur Borah.....*Assistant Professor of Journalism and Acting Director School of Journalism*  
A.B., Huron College, 1913; A.M., Washington, 1924.
- Lyman Crowell Boynton.....*Assistant Professor of Physiological Chemistry*  
A.B., Michigan, 1916; A.M., Columbia, 1922; Ph.D., 1924.
- James Francis Brady, Colonel, C.A.C.....*Professor of Military Science and Tactics*  
Graduate, U.S. Military Academy, 1897.
- Henry Louis Brakel.....*Associate Professor of Engineering Physics*  
A.B., Olivet, 1902; A.M., Washington, 1905; Ph.D., Cornell, 1912.
- Lois Eula Brown.....*Associate in English*  
A.B., Washington, 1920; M.A., 1924.
- Iva Buchanan.....*Associate in History*  
A.B., Washington, 1907; A.M., 1920.
- Helen Marian Buck.....*Instructor in Design*  
California (Southern Branch); California
- Henry Alfred Burd.....*Associate Professor of Business Administration*  
B.S., Illinois Wesleyan, 1910; A.M., Illinois, 1911; Ph.D., 1915.
- Minnie Bell Burdon.....*Lecturer on Hygiene for Women*  
M.D., Oregon, 1908.
- Russell Stanley Callow.....*Associate in Physical Education*  
A.B., Washington, 1916.
- Allen Fuller Carpenter.....*Professor of Mathematics*  
A.B., Hastings, 1901; A.M., Nebraska, 1909; Ph.D., Chicago, 1915.
- Hiram Martin Chittenden.....*Instructor in Engineering*  
B.S. (C.E.), Washington, 1920.
- Byron Hunter Christian.....*Instructor in Journalism*  
A.B., Washington, 1921.
- Ellias Treat Clark.....*Professor of Forestry*  
Ph.B., Yale, 1907; M.F., 1908.
- John Nathan Cobb.....*Professor of Fisheries and Dean of the College of Fisheries*
- Kenneth Carey Cole.....*Assistant Professor of Political Science*  
B.Lit., St. John's College, Oxford, 1924.
- Ira Leonard Collier.....*Assistant Professor of Civil Engineering*  
B.S. (C.E.), Washington, 1913; C.E., 1917.
- Clarence Raymond Corey.....*Assistant Professor of Mining and Metallurgy*  
E.M., Montana State School of Mines, 1905; A.M., Columbia, 1915.
- Herbert Ellsworth Cory.....*Professor in Liberal Arts*  
A.B., Brown, 1906; Ph.D., Harvard, 1910.
- Edward Godfrey Cox.....*Professor of English*  
A.B., Wabash, 1899; A.M., Cornell, 1901; Ph.D., 1906.
- William Edward Cox.....*Professor of Business Administration and Acting Dean of the College of Business Administration*  
A.B., Texas, 1909; A.M., 1910.
- Clyde Myron Cramlet.....*Instructor in Mathematics*  
A.B., Walla Walla College, 1915; M.S., Washington, 1920; Ph.D., 1926.
- Donald Russell Crawford.....*Assistant Professor of Fisheries*  
B.S., Washington, 1922; M.S., 1926.
- Margaret Crawford.....*Associate in Dramatic Art*  
B.S., Columbia, 1921; A.M., 1922.
- Leland Hargrave Creer.....*Assistant Professor of History*  
A.B., Utah, 1910; A.M., 1920; Ph.D., California, 1926.

*Alphabetical List of the Faculty*

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- Carl Spencer Dakan.....*Professor of Business Administration*  
B.S., Missouri, 1909.
- Joseph Daniels.....*Professor of Mining Engineering and Metallurgy*  
S.B., Massachusetts Institute of Technology, 1905; M.S., Lehigh, 1908.
- Lucy Wallrich Davidson.....*Associate in Physical Education*  
A.B., Wisconsin, 1919; M.A., Columbia, 1923.
- Pearce Crane Davis.....*Lecturer in Accounting*  
C.P.A., 1914.
- William Maurice Dehn.....*Professor of Organic Chemistry*  
A.B., Hope, 1898; A.M., 1898; Ph.D., Illinois, 1903.
- Grace Goldena Denny.....*Associate Professor of Home Economics*  
A.B., Nebraska, 1907; A.M., Columbia, 1919.
- Harvey Bruce Densmore.....*Assistant Professor of Greek*  
A.B., Oxford, 1907.
- Louis Peter De Vries.....*Assistant Professor of Romance Languages*  
A.M., Wisconsin, 1911; Ph.D., 1913.
- Edith Doble.....*Instructor in History*  
A.B., Syracuse, 1914; A.M., Chicago, 1922; Ph.D., Stanford, 1925.
- Joseph Paul Dodd.....*Instructor in Civil Engineering*  
B.S. (M.E.), Washington, 1923.
- Edgar Marion Draper.....*Associate in Education*  
A.B., Washington, 1916; M.A., 1925; Ph.D., 1927.
- Oscar Eldridge Draper.....*Lecturer on Business Administration*  
M.Acct., Vories Business College.
- Martha Estella Dresslar.....*Instructor in Home Economics*  
B.A., Southern California, 1913; B.S., Washington, 1917; M.S., Columbia, 1918.
- August Dvorak.....*Assistant Professor of Education*  
A.B., Minnesota, 1920; Ph.D., 1923.
- Austin Vitruvius Eastman.....*Instructor in Electrical Engineering*  
B.S. (E.E.), Washington, 1922.
- Everett Owen Eastwood.....*Professor of Mechanical Engineering*  
C.E., Virginia, 1896; A.B., 1897; A.M., 1899; S.B., Massachusetts Institute of Technology, 1902.
- Ernest Otto Eckelman.....*Assistant Professor of German*  
A.B., Northwestern (Watertown, Wis.), 1897; B.L., Wisconsin, 1898; Ph.D., Heidelberg, 1906.
- Robert Harold Gray Edmonds.....*Assistant Professor of Mechanical Engineering*  
B.S., Whitman, 1915; B.S. (M.E.), Washington, 1922; M.S. (M.E.), 1926.
- Clarence Edmundson.....*Associate in Physical Education*  
B.S., Idaho, 1910.
- Archle Campbell Edwards.....*Associate in Maritime Commerce*  
B.B.A., Washington, 1924.
- Wilfred Eldred.....*Professor of Business Administration*  
A.B. and A.M., Washington and Lee, 1909; A.M., Harvard, 1911; Ph.D., 1919.
- Frederick Burt Farquharson.....*Instructor in Engineering*  
B.S., Washington, 1923.
- Raymond Forrest Farwell.....*Associate in Business Administration*  
A.B., California, 1920; M.A., Washington, 1926.
- Hope Lucille Foote.....*Instructor in Interior Decoration*  
A.B., Iowa State Teachers' College, 1920; A.M., Columbia, 1923.
- Pierre Joseph Frein.....*Professor of Romance Languages*  
A.B., Williams, 1892; Ph.D., Johns Hopkins, 1899.
- Theodore Christian Frye.....*Professor of Botany*  
B.S., Illinois, 1894; Ph.D., Chicago, 1902.
- Eugenia Fuller.....*Associate in Architecture*  
Diploma, Miss Spence's School, New York, 1914.
- Carlos Garcia-Prada.....*Instructor in Spanish*  
A.B., Colegio del Rosario, 1918; M.A., Michigan, 1924.
- George Irving Gavett.....*Assistant Professor of Mathematics*  
B.S. (C.E.), Michigan, 1893.
- William Henry George.....*Associate Professor of Political Science*  
A.B., Harvard, 1902; A.M., Princeton, 1906; Ph.D., Harvard, 1921.

- Alletta Gillette.....*Extension Instructor in English*  
A.B., Smith, 1907; A.M., Washington, 1911.
- Irving Mackey Glen.....*Professor of Music and Dean of the College of Fine Arts*  
A.B., Oregon, 1894; A.M., 1897.
- Sheldon Latta Glover.....*Associate in Geology*  
B.S., Washington, 1919; M.S., 1922.
- Charles Goggio.....*Associate Professor of Romantic Languages*  
A.B., Harvard, 1910; A.M., Wisconsin, 1914; Ph.D., 1919.
- Ivan Wilbur Goodner.....*Professor of Law*  
LL.B., Nebraska, 1897.
- Forest Jackson Goodrich.....*Assistant Professor of Pharmacy and Materia Medica*  
Ph.C., Washington, 1913; B.S., 1914; M.S., 1917; Ph.D., 1926.
- George Edward Goodspeed, Jr.....*Assistant Professor of Geology*  
B.S. (Min.E.), Massachusetts Institute of Technology, 1910.
- Carl Frelinghuysen Gould.....*Professor of Architecture*  
A.B., Harvard, 1898.
- James Edward Gould.....*Professor of Maritime Commerce and Dean of Men*  
B.Ph., Washington, 1896; B.Pd., 1898; M.A., Harvard, 1907.
- Herbert Henry Gowen.....*Professor of Oriental History, Literature and Institutions*  
St. Augustine's College (Canterbury); D.D., Whitman College, 1912.
- Lancelot Gowen.....*Assistant Professor of Architecture*  
A.B., California, 1916; A.M. (Arch.), 1921.
- Dorsett Graves.....*Associate in Physical Education*  
Missouri.
- Royal Kemp Greene, Major, C.A.C.....*Assistant Professor of Military Science and Tactics*  
Graduate, U.S. Military Academy, 1907.
- Homer Ewart Gregory.....*Assistant Professor of Business Administration*  
A.B., Washington State College, 1914; A.M., Chicago, 1917.
- Keith Sumner Gregory, Major, Infantry.....*Assistant Professor of Military Science and Tactics*  
Graduate, U.S. Military Academy, 1903.
- Eldon Griffin.....*Assistant Professor of Oriental Languages*  
A.B., Harvard, 1916.
- Dudley David Griffith.....*Associate Professor of English*  
A.B., Simpson College, 1903; Ph.D., Chicago, 1916.
- Bror Leonard Grondal.....*Associate Professor of Forestry*  
A.B., Bethany (Kansas), 1910; M.S.F., Washington, 1913.
- Mary Emma Gross.....*Associate Professor and Director of Physical Education for Women*  
A.B., Goucher College, 1912; A.M., Columbia, 1915.
- John Earl Guberlet.....*Associate Professor of Zoology*  
A.B., Bethany, 1909; A.M., Illinois, 1911; Ph.D., 1914.
- Paul Gustin.....*Associate in Fine Arts*  
Ranson Academy of Art; Academie Colorossi; Grande Chaumiere, Europe.
- Edwin Ray Guthrie.....*Associate Professor of Psychology*  
A.B., Nebraska, 1907; A.M., 1910; Ph.D., Pennsylvania, 1912.
- Winnifred Sunderlin Haggett.....*Dean of Women*  
A.B., Olivet, 1897; A.M., Michigan, 1898.
- Amy Violet Hall.....*Associate in English*  
B.Ed., Washington, 1920; A.M., 1923.
- Anne Elizabeth Hall.....*Associate in Library Science*  
A.B., Wellesley, 1907.
- David Connolly Hall.....*University Health Officer and Professor of Hygiene*  
Ph.B., Brown, 1901; Sc.M., Chicago, 1903; M.D., Rush Medical College, 1907.
- Frank Hartmond Hamack.....*Associate in Business Administration*  
LL.B., Georgetown, 1916.
- James Baker Hamilton.....*Instructor in Civil Engineering*  
B.S. (C.E.), Washington, 1924.
- Rachel Elizabeth Hamilton.....*Associate in French*  
B.L., Whitman, 1910; A.M., Washington, 1924.
- Charles William Harris.....*Professor of Hydraulic Engineering*  
B.S. (C.E.), Washington, 1903; C.E., Cornell, 1905.
- Joseph Barlow Harrison.....*Associate Professor of English*  
A.B., Washington, 1910; A.B., Oxford, 1913.

- George Edward Hawthorn.....*Instructor in Engineering*  
B.S. (C.E.), Washington, 1915; C.E., 1926.
- Norman Sylvester Hayner.....*Assistant Professor of Sociology*  
A.B., Washington, 1920; M.A., Chicago, 1921; Ph.D., 1923.
- Leone Helmich.....*Associate in Physical Education for Women*  
B.S., Washington, 1922.
- Charles Louis Helmling.....*Assistant Professor of Romance Languages*  
B.Ph., Wallace College (Ohio), 1911; A.M., Washington, 1915.
- William Elmer Henry.....*Librarian and Dean of the Library School*  
A.B., Indiana, 1891; A.M., 1892.
- Arthur Philip Herrman.....*Assistant Professor of Architecture*  
A.B. (Arch.), Carnegie Institute of Technology, 1920.
- Paul McClellan Higgs.....*Associate in Physics*  
B.S., Washington, 1919.
- Christian Hildebrand, First Lieutenant, Infantry.....*Instructor in Military Science*  
Graduate, U.S. Military Academy, 1910; Basic Course, Infantry School, 1920.
- George Lisle Hoard.....*Assistant Professor of Electrical Engineering*  
B.S. (E.E.), Washington, 1917; M.S. (E.E.), 1926.
- Rachel Emilie Hoffstadt.....*Assistant Professor of Bacteriology*  
B.S., Hanover, 1908; M.S., Chicago, 1913; Ph.D., 1915; D.Sc., Johns Hopkins, 1921.
- John William Hotson.....*Assistant Professor of Botany*  
A.B., McMaster, 1901; A.M., 1902; Ph.D., Harvard, 1913.
- Earle Wesley House.....*Associate in Chemistry*  
A.B., Wyoming, 1925.
- Cecil Leonard Hughes.....*Lecturer on Education*  
B.Ed., Washington, 1921; A.M., 1923; Ph.D., 1927.
- Glenn Arthur Hughes.....*Assistant Professor of English and Dramatic Art*  
A.B., Stanford, 1916; A.M., Washington, 1920.
- Walter Isaacs.....*Associate Professor of Fine Arts*  
B.S. (F.A.), James Millikin, 1909; Academie Colorossi and Academie Moderne, Paris.
- Kirby Jackson.....*Associate in Chemistry*  
B.S., Vanderbilt, 1918; M.S., 1919.
- Burton Wakeley James.....*Associate in Dramatic Art*  
Cornell; Emerson College of Oratory.
- Norman Donald Jarvis.....*Instructor in Fisheries*  
B.S., Washington, 1924; M.S., 1926.
- Arthur Rudolph Jerbert.....*Associate in Mathematics*  
B.S., Washington, 1916; M.S., 1923.
- John Jessup.....*Acting Associate Professor of Education*  
A.B., Earlham College, 1920; M.A., Iowa, 1924.
- Arlene Johnson.....*Associate in Sociology*  
A.B., Reed College, 1917; A.M., Columbia, 1923.
- Charles Willis Johnson.....*Professor of Pharmaceutical Chemistry and*  
*Dean of the College of Pharmacy.*  
Ph.C., Michigan, 1896; B.S., 1900; Ph.D., 1903.
- John Barnsley Jones.....*Acting Instructor in Journalism*  
A.B., University of Detroit, 1900; M.A., Gonzaga University, 1903.
- Pamela Pearl Jones.....*Associate in English*  
A.B., Iowa, 1906; A.M., 1908.
- Robert William Jones.....*Associate Professor of Journalism*  
A.B., Missouri, 1906; LL.B., 1913; A.M., South Dakota, 1918.
- Fred Washington Kennedy.....*Director of the Journalism Laboratories*
- Sylvia Finlay Kerrigan.....*Associate in English*  
A.B., Washington, 1919; A.M., 1923.
- Trevor Kincaid.....*Professor of Zoology*  
B.S., Washington, 1899; A.M., 1901.
- George Kirchner.....*Instructor in Music*  
Leipzig.
- Burt Persons Kirkland.....*Professor of Forestry*  
A.B., Cornell, 1905.

- Friedrich Kurt Kirsten.....*Professor of Electrical Engineering*  
B.S., Washington, 1909; E.E., 1914.
- Emily Josephine Kramer.....*Instructor in Design*  
Ph.B., Wisconsin, 1924; M.A., Columbia, 1925.
- Henry Landes.....*Professor of Geology and Mineralogy and Dean of the College of Science*  
A.B., Indiana, 1892; A.B., Harvard, 1892; A.M., 1893.
- Henry August Langenhahn.....*Associate Professor of Pharmacy*  
Ph.G., Illinois, 1908; Ph.C., 1909; B.S., Wisconsin, 1913; M.S., 1915; Ph.D., 1918.
- Harvey Lantz.....*Professor of Law*  
Ph.B., DePauw, 1888; A.M., 1891; LL.B., Kent Law School, 1898.
- Frank Joseph Laube.....*Assistant Professor of Political Science*  
A.B., Wisconsin, 1899; A.M., Washington, 1913.
- Charles Wilson Lawrence.....*Assistant Professor of Music*  
B.Mus., Oberlin, 1918.
- Jane Sorrie Lawson.....*Associate in English*  
A.M., St. Andrews (Scotland), 1906.
- Karl Elias Leib.....*Associate Professor of Business Administration*  
A.B., Stanford, 1916; J.D., 1923.
- Howard Thompson Lewis.....*Professor of Economics and Dean of the College of Business Administration*  
A.B., Lawrence College, 1910; A.M., Wisconsin, 1911.
- Hunter Campbell Lewis.....*Associate in English*  
A.B., British Columbia, 1923; M.A., 1925.
- Roy Eric Lindblom.....*Instructor in Electrical Engineering*  
B.S. (E.E.), Washington, 1922.
- Edgar Allen Loew.....*Professor of Electrical Engineering*  
B.S. (E.E.), Wisconsin, 1906; E.E., 1922.
- Frederick Valentine Lofgren.....*Instructor in Pharmacy*  
B.S., Washington, 1924; M.S., 1925.
- Albert Lovejoy.....*Acting Assistant Professor of Dramatic Art*  
B.L.I., Emerson College of Oratory, 1924.
- Henry Stephen Lucas.....*Assistant Professor of History*  
A.B., Olivet, 1913; A.M., Indiana, 1915; Ph.D., Michigan, 1921.
- George Andrew Lundberg.....*Assistant Professor of Sociology*  
A.B., North Dakota, 1920; A.M., Wisconsin, 1922; Ph.D., Minnesota, 1924.
- Emil Alexander Lundkvist.....*Acting Assistant Professor of Economics*  
B.D., Pacific Theological Seminary, 1917; M.A., Stanford, 1926.
- Ruth Margaret Lusby.....*Instructor in Institutional Management*  
B.S., Washington, 1918; A.M., Columbia, 1920.
- Clara Belle Lynch.....*Associate in Music*
- Eldin Verne Lynn.....*Associate Professor of Pharmacology and Chemistry*  
A.B., Washington, 1909; A.M., Wisconsin, 1910; Ph.D., 1918.
- Lawrence Edward McCarthy.....*Associate in Physics*  
A.B., Texas, 1917; A.M., 1918.
- James McConahey.....*Lecturer on Business Administration*  
B.S., Washington and Jefferson, 1896; M.S., 1899; LL.B., Northwestern, 1899; C.P.A., 1916.
- Matilda Jane McGownd.....*Instructor in Physical Education*  
B.S., Columbia, 1915; A.M., 1923.
- Harry John McIntyre.....*Assistant Professor of Mechanical Engineering*  
B.S. (M.E.), Washington, 1915; M.B.A., 1923.
- Roderick Duncan McKenzie.....*Professor of Sociology*  
A.B., Manitoba, 1912; Ph.D., Chicago, 1920.
- Edward McMahon.....*Associate Professor of American History*  
Ph.B., Washington, 1898; A.M., Wisconsin, 1907.
- Theresa Schmid McMahon.....*Associate Professor of Economics*  
A.B., Washington, 1899; A.M., 1901; Ph.D., Wisconsin, 1909.
- Bryan Towne McMinn.....*Assistant Professor of Mechanical Engineering*  
B.S., Oregon Agricultural College, 1918; M.S. (M.E.), Washington, 1926.
- Laura Edna Mabon.....*Associate in Music*  
Graduate, Conservatory of Music, Carlton College, 1911.



- Carl Edward Magnusson.....*Professor of Electrical Engineering and Dean of the College of Engineering*  
B.E.E., Minnesota, 1896; M.S., 1897; E.E., 1905; Ph.D., Wisconsin, 1900.
- Gustaf Alfred Magnusson.....*Lecturer on Clinic Diagnosis*  
A.B., New Mexico, 1903; M.D., Minnesota, 1908.
- Charles Emanuel Martin.....*Professor of Political Science*  
B.L., California, 1914; A.M., 1915; Ph.D., Columbia, 1917.
- Marion Marguerite Martin.....*Associate in Physical Education for Women*  
B.S., Columbia, 1926.
- Charles Culbertson May.....*Associate Professor of Civil Engineering and Architecture*  
B.S. (C.E.), Washington, 1910.
- Edmond Stephen Meany.....*Professor of History*  
B.S., Washington, 1885; M.S., 1890; M.L., Wisconsin, 1901; LL.D., College of Puget Sound, 1926.
- Evan Kirkpatrick Meredith, Captain, Infantry.....*Assistant Professor of Military Science*  
Stanford; Washington.
- Alfred Lawrence Miller.....*Assistant Professor of Civil Engineering*  
B.S. (C.E.), Washington, 1920; C.E., 1926.
- Robert Cunningham Miller.....*Assistant Professor of Zoology*  
A.B., Greenville, 1920; A.M., California, 1921; Ph.D., 1923.
- Loren Douglas Milliman.....*Associate Professor of English*  
A.B., Michigan, 1890.
- Charles Church More.....*Professor of Structural Engineering*  
C.E., Lafayette, 1898; M.C.E., Cornell, 1899; M.S., Lafayette, 1901.
- Robert Edouard Moritz.....*Professor of Mathematics*  
B.S., Hastings, 1892; Ph.M., Chicago, 1896; Ph.D., Nebraska, 1901; Ph.N.D., Strassburg, 1902.
- Henry Clinton Kress Muhlenberg, Major, Air Corps.....*Assistant Professor of Military Science and Tactics*  
Graduate, U.S. Military Academy, 1908; Graduate, Command and General Staff School, Fort Leavenworth, 1924.
- Hermanne Mullemeister.....*Instructor in Mathematics*  
Phil.Cand., Royal University of Utrecht, Holland, 1910; Ph.D., 1913.
- Thomas Francis Mundle.....*Associate in English*  
M.A., St. Andrews, Scotland, 1923.
- Lewis Irving Nelkirk.....*Assistant Professor of Mathematics*  
B.S., Colorado, 1898; M.S., 1901; Ph.D., Pennsylvania, 1903.
- Irene Margaret Neilson.....*Instructor in Music*  
B.M., Washington, 1922.
- Erma Emmaline Nelson.....*Associate in History*  
B.A., University of Denver, 1918; M.A., Utah, 1924.
- Kirsten Larssen Newberry.....*Associate in Physics*  
B.S., Washington, 1919; M.S., 1924.
- Frances Dickey Newenham.....*Associate Professor of Music*  
Graduate, Iowa State Teachers' College, 1901; B.S., Columbia, 1912; A.M., 1913.
- William Joseph Norton, Jr.....*Instructor in Philosophy*  
B.S., College of the City of New York, 1920; B.A., Oxford, 1924.
- Caroline Haven Ober.....*Professor of Spanish*
- Joseph Grattan O'Bryan.....*Lecturer on Law*  
A.B., Jesuit College (Denver), 1893.
- James Perdue Olding, Commander, U.S.N.....*Professor of Naval Science and Tactics*  
Graduate, U.S. Naval Academy, 1906.
- Frederick Wesley Orr.....*Associate Professor of English*  
B.L., Drury College, 1901; G.C.D., Boston School of Expression, 1905; M.A., Lawrence College, 1925.
- Frederick Arthur Osborn.....*Professor of Physics*  
Ph.B., Michigan, 1896; Ph.D., 1907.
- Cornelius Osseward.....*Lecturer on Pharmacy*  
Ph.G., Columbia, 1892; Ph.C., Northwestern, 1896.
- Frederick Morgan Padelford.....*Professor of English, Dean of the Graduate School, and Acting Dean of Faculties*  
A.B., Colby, 1896; A.M., 1899; Ph.D., Yale, 1899.
- Vernon Louis Parrington.....*Professor of English*  
A.B., Harvard, 1893; A.M., Emporia, 1895.

- John Everette Partington.....*Exchange Assistant Professor of Business Administration*  
B.A., Iowa State Teachers College, 1913; M.A., Iowa, 1922.
- Ambrose Patterson.....*Associate in Fine Arts*  
Melbourne National Gallery, Victoria, Australia; Julien, Colorossi and Delocluse  
Academies, Europe.
- Virginia Cunningham Patty.....*Assistant Professor of Home Economics*  
B.S., Columbia, 1926.
- Otto Patzer.....*Associate Professor of French*  
B.L., Wisconsin, 1898; M.L., 1899; Ph.D., 1907.
- Frederick Powell.....*Lecturer on Gold Dredging*  
E.M., Columbia.
- Sargent Powell.....*Assistant Professor of Chemistry*  
B.S., M.S., Washington, 1916; Ph.D., Illinois, 1919.
- Dudley Pratt.....*Assistant Professor of Fine Arts*  
A.B., Yale, 1919.
- Howard Hall Preston.....*Professor of Business Administration*  
B.S., Coe, 1911; A.M., Iowa, 1914; Ph.D., 1920.
- Marguerite Putnam.....*Associate in Library Science*  
A.B., Washington, 1921; B.S. (L.S.), 1923.
- Cecil Eden Quantton.....*Instructor in History*  
B.A., Manitoba, 1918; B.A., Cambridge, 1924.
- Ethel Sanderson Radford.....*Associate in Chemistry*  
A.M., McGill, 1895.
- Effie Isabel Raitt.....*Professor of Home Economics*  
B.S., Columbia, 1912; A.M., 1919.
- Edgar Dunnington Randolph.....*Professor of Education*  
Graduate, Eastern Illinois State Normal School, 1905; A.B., Denver, 1911;  
A.M., Columbia, 1915; Ph.D., 1922.
- Adele Reeves.....*Associate in Music*  
B.F.A., Washington, 1920.
- Helen Nelson Rhodes.....*Instructor in Design*  
National Academy of Design; Columbia; A.B., Washington, 1927.
- Paul Hildreth Rice, Lieutenant Commander, U.S.N.....*Assistant Professor of Naval  
Science and Tactics*  
Graduate, U.S. Naval Academy, 1899.
- Oliver Huntington Richardson.....*Professor of European History*  
A.B., Yale, 1889; A.M., Ph.D., Heidelberg, 1897.
- George Burton Rigg.....*Associate Professor of Botany*  
B.S., Iowa, 1896; B.D., 1899; A.M., Washington, 1909; Ph.D., Chicago, 1914.
- Alexander Crippen Roberts....*Professor of Education and Director of the Extension Service*  
A.B., Wisconsin, 1906; A.M., Washington, 1917; Ph.D., 1922.
- Milnor Roberts.....*Professor of Mining Engineering and Metallurgy and Dean of the  
College of Mines*  
A.B., Stanford, 1899.
- James Postlewait Robertson.....*Lecturer on Accounting*  
C.P.A.
- Henry Gerald Robinson.....*Instructor in Engineering*  
B.S. (E.E.), Washington, 1925.
- Moritz Rosen.....*Associate Professor of Music*  
Graduate, Warsaw Conservatory, Russia.
- Jessie Irene Rowntree.....*Assistant Professor of Home Economics*  
B.S., Wisconsin, 1918; M.S., Chicago, 1925.
- Edwin James Saunders.....*Assistant Professor of Geology*  
B.A., Toronto, 1896; A.M., Harvard, 1907.
- William Savery.....*Professor of Philosophy*  
A.B., Brown, 1896; A.M., Harvard, 1897; Ph.D., 1899.
- Gilbert Simon Schaller.....*Assistant Professor of Shop Engineering*  
B.S., Illinois, 1916; M.B.A., Washington, 1925.
- Calvin Schmid.....*Associate in Sociology*  
A.B., Washington, 1925.
- Otto Harry Schrader, Major, C.A.C.....*Assistant Professor of Military Science and Tactics*  
B.S. (E.E.), Purdue, 1908.

- Alfred John Schweppe.....*Professor of Law and Dean of the School of Law*  
A.B., Wisconsin, 1916; M.A., 1917; LL.B., Minnesota, 1922.
- Gordon Russell Shuck.....*Assistant Professor of Electrical Engineering*  
E.E., Minnesota, 1906.
- Thomas Kay Sidey.....*Associate Professor of Latin and Greek*  
B.A., Toronto, 1891; Ph.D., Chicago, 1900.
- Lurline Violet Simpson.....*Associate in French*  
A.B., Washington, 1920; A.M., 1924.
- Victorian Sivertz.....*Instructor in Chemistry*  
B.S., Washington, 1922; M.S., West Virginia, 1924; Ph.D., McGill, 1926.
- Macy Milmore Skinner.....*Associate Professor of Business Administration*  
A.B., Harvard, 1894; A.M., 1895; Ph.D., 1897.
- Charles Wesley Smith.....*Reference Librarian and Professor of Library Science*  
A.B., Illinois, 1903; B.L.S., 1905.
- Eli Victor Smith.....*Assistant Professor of Zoology*  
Ph.B., Illinois Wesleyan, 1907; A.M., Washington, 1909; Ph.D., Northwestern, 1911.
- Frederick Chamley Smith.....*Instructor in Engineering*  
B.S. (C.E.), Washington, 1926.
- George McPhail Smith.....*Professor of Inorganic Chemistry*  
B.S., Vanderbilt, 1900; Ph.D., Freiburg, 1903.
- George Sherman Smith.....*Assistant Professor of Electrical Engineering*  
B.S. (E.E.), Washington, 1916; E.E., 1924.
- Harry Edwin Smith.....*Associate Professor of Business Administration*  
A.B., DePauw, 1906; Ph.D., Cornell, 1912.
- Stevenson Smith.....*Professor of Psychology*  
A.B., Pennsylvania, 1904; Ph.D., 1909.
- Harriet Vivian Snidow.....*Associate in Pharmacy*  
Ph.G., B.S., Oregon Agricultural College, 1923; M.S., Washington, 1925.
- Elizabeth Soule.....*Associate in Nursing and Public Health*  
Graduate, Malden, Massachusetts, Hospital School of Nursing, 1907; A.B., Washington, 1926.
- Charles Ulysses Southwick.....*Associate in French*  
A.B., Washington, 1924; M.A., 1926.
- Matthew Lyle Spencer.....*Professor of Journalism and Dean of the School of Journalism*  
A.B., Kentucky Wesleyan, 1903; A.M., 1904; Northwestern, 1905;  
Ph.D., Chicago, 1910.
- Ottis Bedney Sperlin.....*Lecturer on English*  
A.B., Indiana University, 1903; Ph.M., Chicago, 1908.
- Leslie Spler.....*Assistant Professor of Anthropology*  
B.S., College of City of New York, 1915; Ph.D., Columbia, 1920.
- Edward Noble Stone.....*Lecturer on Classical Languages*  
A.B., Olivet College, 1891; A.M., 1893.
- Wayne Campbell Sutton.....*Associate in Physical Education*  
A.B., Washington, 1915.
- Herman Vance Tartar.....*Associate Professor of Chemistry*  
B.S., Oregon Agricultural College, 1902; Ph.D., Chicago, 1920.
- Ottile Terzleff.....*Associate in German*  
A.B., Illinois, 1923; M.A., Washington, 1926.
- Harlan Thomas.....*Professor of Architecture*  
B.S., State Agricultural College of Colorado, 1894.
- Thomas Gordon Thompson.....*Associate Professor of Chemistry*  
A.B., Clark, 1914; M.S., Washington, 1915; Ph.D., 1918.
- David Thomson.....*Professor of Latin, Dean of the College of Liberal Arts, Dean of  
Faculties, and Acting President*  
B.A., Toronto, 1892.
- Arthur Truax.....*Lecturer on Business Administration*
- George Wallace Umphrey.....*Professor of Romance Languages*  
B.A., Toronto, 1899; A.M., Harvard, 1901; Ph.D., 1905.
- Edgar Harrison Underwood, Captain, C.A.C.....*Assistant Professor of Military Science  
and Tactics*  
B.S. (C.E.), Tennessee, 1916; Grad., Coast Artillery School, 1922.
- Frank Chester Van de Walker.....*Associate in Business Administration*  
A.B., Whitworth, 1917; M.B.A., Washington, 1923.

- Robert Van Horn.....*Instructor in Engineering*  
B.S. (C.E.), Washington, 1916; C.E., 1926.
- Louise Van Ogle.....*Assistant Professor of Music*  
Theoretical Work, Dr. Bridge, Chester, England; Richter, Leipzig; Piano, Godowsky, Berlin; Lhevinne, Berlin; Harold Bauer, Paris.
- Albert Franz Venino.....*Associate Professor of Music*  
New York Conservatory of Music; Pupil of Leschetizky.
- Lnella Venino.....*Associate in Music*  
Leschetizky.
- Bertha Almen Vickner.....*Associate in English*  
A.B., Gustavus Adolphus, 1910; A.M., Washington, 1917.
- Edwin John Vickner.....*Professor of Scandinavian Languages*  
A.B., Minnesota, 1901; A.M., 1902; Ph.D., 1906.
- Edward Charles Wagenknecht.....*Associate in English*  
B.T., Union Theological College, 1921; Ph.B., Chicago, 1923; M.A., 1924.
- Wallace Theodore Wait.....*Associate in Education*  
B.S., Whitman College, 1916; M.A., Washington, 1920.
- Frank Melville Warner.....*Assistant Professor of Engineering*  
B.S. (M.E.), Wisconsin, 1907.
- Charles Edwin Weaver.....*Professor of Paleontology*  
B.S., California, 1904; Ph.D., 1907.
- John Welzirl.....*Professor of Bacteriology*  
B.S., Wisconsin, 1896; M.S., 1899; Ph.D., 1906; Dr. P.H., Harvard, 1918.
- Elenora Wesner.....*Associate in German*  
A.B., Chicago, 1915; A.M., Northwestern, 1923.
- Laura Gwendolen Whitmire.....*Associate in Dramatic Art*  
A.B., Illinois, 1914.
- Walter Bell Whittlesey.....*Instructor in French*  
A.B., Washington, 1907; A.M., 1909.
- Elgin Roscoe Wilcox.....*Assistant Professor of Civil Engineering*  
B.S., Washington, 1915; Met.E., 1919.
- Curtis Talmadge Williams.....*Assistant Professor of Education*  
A.B., Kansas State Normal, 1913; A.M., Clark, 1914; Ph.D., 1917.
- Laurin Lyman Williams, Captain, Infantry.....*Assistant Professor of Military Science*  
A.B., Yale, 1917; Graduate, Basic Course, Infantry School, 1921.
- George Samuel Wilson.....*Professor of Mechanical Engineering*  
B.S., Nebraska, 1906.
- Hewitt Wilson.....*Associate Professor of Ceramics*  
Cer.Engr., Ohio State University, 1913.
- William Charles Eade Wilson.....*Associate in Spanish*  
A.B., Montana, 1922; M.A., Washington, 1925.
- Roy Martin Winger.....*Professor of Mathematics*  
A.B., Baker, 1906; Ph.D., Johns Hopkins, 1912.
- Hugo Winkenwerder.....*Professor of Forestry and Dean of the College of Forestry*  
B.S., Wisconsin, 1902; M.F., Yale, 1907.
- Arthur Melvin Winslow.....*Associate Professor of Mechanical Engineering*  
Ph.B., Brown, 1903; B.S., Massachusetts Institute of Technology, 1906.
- Sophus Keith Winther.....*Instructor in English*  
A.B., Oregon, 1918; A.M., 1919; Ph.D., Washington, 1926.
- Carl Paige Wood.....*Associate Professor of Music*  
A.B., Harvard, 1906; A.M., 1907.
- Howard Woolston.....*Professor of Sociology*  
A.B., Yale, 1898; S.T.B., Chicago, 1901; M.A., Harvard, 1902; Ph.D., Columbia, 1909.
- John Locke Worcester.....*Professor of Anatomy*  
M.D., Birmingham School of Medicine, Alabama, 1900.
- Ruth Worden.....*Instructor in Library Science*  
A.B., Wellesley, 1911.
- Eugenie Hutchinson Worman.....*Associate in Fine Arts*  
Pratt Institute.
- Herman Zanstra.....*Assistant Professor of Astronomy and Mathematics*  
Chemical Engineer, Technische Hoogeschool, Delft, Holland, 1917; Ph.D., Minnesota, 1923.

## BOARDS AND COMMITTEES

1927-1928

### ADMINISTRATIVE BOARDS

ADMISSIONS.....The Board of College Deans  
BOARD OF DEANS—Thomson, Magnusson, M. Roberts, Johnson, Winkenwerder, Padelford, Landes, Bolton, Glen, Cobb, Henry, Schweppe, Cox, A. C. Roberts, J. E. Gould, Haggett, Stevens.  
SCHEDULE AND REGISTRATION—Stevens, George Wilson, Cory, Tartar, Sidey, Draper, Dresslar, Wood, Carpenter, W. B. Jones, Brakel, DeVries, Corey.  
STUDENT DISCIPLINE.....Lantz, Burd, Thomson, Guthrie, McIntyre  
SUMMER QUARTER.....A. C. Roberts, Thomson, Padelford, Bolton, Landes, Condon

### COMMITTEES OF THE FACULTY

ART.....Thomas, Rhodes, Pratt  
ATHLETICS.....May, L. J. Ayer, Hall, Moritz, Dehn  
CURRICULUM—Benson, Cobb, E. T. Clark, Schweppe, Corey, Patzer, Dakan, A. C. Roberts, Randolph, Lynn, Herrman, George S. Smith, Stevens, Alfonso, Borah.  
GRADUATION—Preston, Magnusson, Glen, Lantz, Kirkland, Williams, Griffith, Goodspeed, Hoard, Stevens.  
HONORS.....Gavett, Carpenter, T. S. McMahon, Wood, Dahlin, J. E. Gould  
LIBRARY—Henry, Thomson, Padelford, Frye, Richardson, Patzer, Loew, Preston, C. W. Smith  
PUBLICATIONS.....Leib, Borah, E. G. Cox, A. L. Miller, Glenn Hughes, Darwin Melsnest  
PUBLIC EXERCISES.....Daniels, A. C. Roberts, Lovejoy, L. Gowen, Lawrence  
RELATIONS WITH SECONDARY SCHOOLS—Bolton, Frein, E. McMahon, Rigg, C. L. Hughes, Stevens.  
RHODES SCHOLARSHIPS.....Densmore, Harrison, Cole, Quainton  
RULES.....Goodner, George, Skinner, Boynton, Haggett, J. E. Gould, Stevens  
STUDENT AFFAIRS—W. E. Cox, C. W. Johnson, McKenzie, Haggett, E. T. Clark, Winslow, Gross, Harrison, Draper, and eight representatives of student organizations.  
STUDENT WELFARE AND LOANS—J. E. Gould, Haggett, Raitt, Hall, Densmore, Wilcox, Condon.

# THE UNIVERSITY

## HISTORY

The foundation for establishment of the University of Washington was laid in 1854, when Governor Isaac Ingalls Stevens, in his message to the first legislature, recommended that Congress be memorialized to appropriate land for a university. Two townships subsequently were granted and in January, 1861, the legislature finally located the Territorial University at Seattle.

On February 22 (Washington's Birthday), the Reverend Daniel Bagley, John Webster and Edmund Carr, composing the Board of University Commissioners, met and organized for work. Ten acres of land were donated by Hon. Arthur A. Denny, Charles C. Terry and Edward Lander from their adjoining farms, and on May 21, 1861, the cornerstone of the main building was laid. The building was completed in specified time and on November 4, 1861, classes were opened for students.

For thirty-four years the University occupied the original tract, but in the later eighties it became apparent that the campus eventually would be outgrown. By 1890 the growth both of the University and of Seattle's business district evinced the necessity of more ample grounds.

To meet this need, the legislature passed a bill on March 7, 1893, providing for the relocation, construction and maintenance of the University of Washington. A fractional section of land consisting of 355 acres between Lakes Washington and Union, the present site of the University, was purchased, and on the completion of Denny Hall and some minor buildings the University moved to its present location in September, 1895.

## GOVERNMENT

Under the constitution and laws of the State of Washington, the government of the University is vested in a Board of Regents, consisting of seven members appointed by the Governor by and with the advice and consent of the Senate. Each regent is appointed for a term of six years.

## ENDOWMENT AND SUPPORT

The University derives its support from the state. As yet the property belonging to the institution as an endowment yields comparatively little revenue. The income from this property in years to come will greatly help to support the institution.

The legislature of 1925 increased the millage rate for operation from 1.10 of a mill to 1.47, but based this rate on the then assessed valuation of \$1,158,026,676.00. This will yield annually \$1,702,300.00, which augmented by sundry property receipts and tuitions should yield approximately \$1,860,000 for 1927-1928 and annually thereafter until modified by law.

The property of the University includes:

The two townships of land granted by Congress in 1854. There remains of this old grant some 3,000 acres.

The old University site, consisting of the tract of 8.32 acres, donated in 1861 by Arthur Denny and his wife; and 1.67 acres donated by Charles C. Terry and wife and Edward Lander. This "ten-acre tract" lies in the business center of Seattle, and is rapidly enhancing in value.

One hundred thousand acres of land segregated by the state March 14, 1893.

The University campus consisting of 582 acres of land and waterways.

## BEQUESTS

The Board of Regents of the University of Washington is authorized by law to receive such bequests or gratuities as may be given or granted to the University, and to invest or expend the same according to the terms of such bequests or gratuities. The Board of Regents has adopted rules to govern and protect the principal of such gifts and the income therefrom so that the same will be forever applied to the purposes designated by the donors of the gifts.

Those who desire to aid the work of the University of Washington by means of gifts *inter vivos* or by wills may do so, feeling assured that their wishes as outlined in the deed of gift or will are to be carried into effect as provided by law.

A simple statement in a will, such as the following, will be sufficient:

"I give, devise and bequeath to the Board of Regents of the University of Washington the sum of..... dollars *In Trust, However*, for the following uses and purposes to be invested in securities to be approved by said Board and the interest therefrom to be expended in the maintenance of" (scholarship or fellowship fund named).

These bequests may be applied to the maintenance of scholarships and fellowships in any subject desired by the donor which meets the approval of the Board of Regents.

## EQUIPMENT

### GROUND

The campus contains 582 acres, 109 of which are open water. The land is all within the city limits of Seattle, lying between Lakes Union and Washington, with a shore line of more than one mile on Lake Washington and about a quarter of a mile on Lake Union.

### PLAN OF THE CAMPUS

The plan for grouping the buildings of the University of Washington was prepared by direction of the Board of Regents, and with the supervision of the Faculty Committee. It was officially adopted May, 1915. The scheme is developed upon three major quadrangles, the Science Group about the axis of Rainier Vista, the Administration or Library Group with Meany Hall enclosing the west side, and the Liberal Arts Group about an axis at right angles with the walk in front of Denny Hall.

The plan provides for foot traffic only within the quadrangles. Automobile and service roads are provided to give access to the various groups, and scenic driveways encircle the campus. The ground to the west of Montlake Boulevard is reserved for athletics and the Stadium seating 30,000 persons has been built in this section of the campus by the Associated Students of the University of Washington. The Gymnasium is to be placed halfway between the Academic Group and the athletic fields, with a connection by bridge over Montlake Boulevard.

Denny Field already has been moved to conform to the group plan which provides for a Women's Group in the northeast section of the campus, including a women's dormitory and women's gymnasium.

The northwest section of the campus is reserved for men's dormitories. Between these two proposed groups Memorial Way enters from the north as the continuation of University Boulevard.

Since the adoption of the group plan ten buildings have been erected. Home Economics, Philosophy, Commerce and Education Halls on the Liberal Arts Quadrangle. Locations for three additional buildings are provided to complete this group. The new Library building, facing Meany Hall, defines the east line of the Library grouping. The Library has been occupied since January 1, 1927.

Plans are being prepared for the immediate erection of Physics Hall, which will be the first unit of the Science group. Provisions for this were made by the last session of the legislature. The four buildings adjacent to the Science group are Hydraulics, Forest Products, Mines Laboratories and Anderson Hall.

### BUILDINGS

The buildings now in use on the University campus include the Aerodynamical Laboratory, Anderson Hall, Anatomical Laboratory, Bagley Hall and Annex, Commerce Hall, Denny Hall, Dormitories, (Lewis, Clark, Lander and Terry), Education Hall, Engineering Hall, Fisheries Buildings, Forest Products Laboratory (Dry Kiln, Wood Preserving Plant, Dry Shed), Foundry and Shop Building, Good Roads Building, Gymnasium, Health Service Building, Henry Art Gallery, Home Economics Hall, Hydraulics Laboratory, Library, Meany Hall, Mines Laboratory, Music Building, Observatory, Pharmacy Building, Philosophy Hall, Power House, Practice Cottage, R.O.T.C. Armory and Headquarters Buildings, Science Hall, United States Bureau of Mines, United States Mine Safety Station.



In addition to the above, there are now under course of construction a new Physical Education Building for women, an Athletic Pavilion and Gymnasium for Men, and the second unit completing Mines Hall, the home of the School of Mines and Ceramics.

#### LIBRARY FACILITIES

The general library is housed in a beautiful new building containing comfortable and adequate provision for readers. The book collection has been built to meet the needs of students in all lines of undergraduate instruction. A stock of the more fundamental publications needed for advanced research is quite rapidly accumulating and special collections are being formed in a few limited fields. The number of bound volumes is 174,668.

The library of the Law School contains 48,883 volumes. Both libraries are freely accessible to all who care to use them.

In addition to the libraries on the campus, the Seattle Public Library, containing 384,836 volumes, is open to the University.

#### MUSEUMS

The museum of the University of Washington is a museum of the arts and natural sciences. It was created the State Museum of the State of Washington by act of the legislature in 1899. In its functions as a state, a university and a public museum, it aims to make its collections representative of the natural history, mineral resources, ethnology, history, and chief industrial activities of this region and of those countries with which this state has a commercial relationship; to furnish materials for research and study, and to interest and educate the public by its exhibitions. Its collections, illustrative of the northwest coast, are among the most complete and valuable in the United States.

The museum, which has been housed in the Forestry building erected for the Alaska-Yukon-Pacific Exposition, is being transferred to the building formerly used by the University library. This building has been remodeled to accommodate the museum collections and it is expected that the arrangement of the collections will be completed about the first of the year 1928, when it will be open to the public.

The collections, which have not been available to the public since May 26, 1923, now number approximately 110,000 specimens, with an estimated value of \$275,000. One large room will contain an extensive series of mineral specimens, while another will contain the exhibit of local birds, arranged in systematic order and in groups showing their natural habitats. The elaborate habitat groups of large mammals, including, elk, bear, deer, mountain goats and cougar, mounted according to the latest methods of scientific taxidermy, which have attracted so much attention in the old building, will be re-installed in the new quarters. The marine fauna is represented by a series of mounted fishes of the northwest coast, corals, sponges, crustaceans, and mounted shells. Rare specimens illustrative of the extinct mammoth and mastodon from Alaska and the state of Washington will also be on exhibition.

*Ethnology*.—Collections illustrative of the life, arts and industries of the Indian tribes of the northwest coast from the Columbia river northward through Arctic Alaska arranged in tribal sequence will be placed on the main floor and annex. The Emmons Tlingit collection from South-eastern Alaska is one of the most complete from that section to be found in any museum, and the Eskimo collection from Arctic Alaska is equally rare and valuable. In addition there is a small and interesting series from the so-called Blond Eskimos on Coronation Gulf. A collection of pottery and basketry illustrates the art of the Indian tribes of Southwestern United States.

An unusual and rare collection illustrative of the archaeology of the Columbia river region of eastern Washington added, through the work of a museum expedition under supervision of Director F. S. Hall, together with the Stewart collection in the museum, forms a most interesting series on the archaeology of the Columbia river down to the Dalles.

The Philippine collections contain interesting specimens of Moro handicraft such as brasses, hats, textiles, and implements of warfare; examples of the characteristic beadwork of the Bogobos of the island of Mindanao; and articles of dress and implements of warfare of the Igorrots and other primitive tribes of the island of Luzon.

Other collections of interest include porcelains, embroideries, carvings, scrolls, clothing, and Buddhas, from northern China; specimens from various islands of Oceania and Australia; Norwegian spinning wheels, chests, household articles, and other materials of the early eighteenth century; a collection of guns, pistols, and other firearms given by the Butterworth estate; relics of the World War given or loaned by persons who collected them while in the service; a colonial collection of early furniture, pewter, glassware, potteries, documents and photographs, and historical materials representative of pioneer days in the Pacific Northwest and elsewhere.

*Fine Arts.*—The fine arts section contains the interesting collection of paintings, tapestries, and carvings, loaned by Kennedy C. Friend, and a collection of rare antique laces, Paisley and India shawls, porcelains, engravings, textiles and sculpture which have either been given or are loaned indefinitely to the museum. Special exhibits will be arranged in the balcony from time to time, notices of which will be published.

*Reserve or Study Series.*—The museum has in its laboratories, for purposes of study and research, collections of botanical, conchological, ornithological, and ethnological specimens which are available to students or specialists competent to use them, and a museum library, consisting of about a thousand books and pamphlets on scientific subjects.

The herbarium of over 20,000 specimens contains a characteristic series of northwest flora virtually all of which is card indexed. There is also the Frye collection of mosses of this region and Alaska, which is one of the most complete in the United States.

The collection of bird skins, eggs, and nests consists of more than 5,000 specimens particularly representative of western Washington.

The conchological collection of over 18,000 specimens contains a complete series of west coast forms and a large series from all parts of the world.

#### HORACE C. HENRY GALLERY OF THE FINE ARTS

The Horace C. Henry Gallery of the Fine Arts was completed in December, 1926. This building and its collection of modern paintings are the gift of Horace C. Henry of Seattle.

It includes the work of about two hundred representative painters, which will be invaluable to the College of Fine Arts in the teaching of painting and art appreciation. The United States is represented by such names as Beckwith, Blakelock, Chase, Cox, Guerin, Hassam, Homer, Inness, Martin, Melchers, Murphy, Ranger, Weir, Wyant. French painting is represented by Bonheur, Cazin, Corot, Daubigny, Delacroix, Diaz, Dupre, Jacque, Rousseau, Troyon, and others. Typical work of the schools of England, Spain, Holland, Germany and Sweden are also included.

#### LABORATORIES

The University of Washington has laboratories fully equipped for work in anatomy, astronomy, botany, chemistry, (including separate laboratories devoted to general chemistry, analytical chemistry, food inspection and analysis, physiological, industrial and pharmaceutical chemistry), geology, psychology, physics and zoology.

## ENGINEERING LABORATORIES

*Aeronautical Engineering.*—The aerodynamics laboratory contains a standard 4 ft. x 4 ft. wind tunnel with complete equipment of automatic scales for experiments with air-foils, steam-lined body shapes and propellers. A shop in the laboratory facilitates the materialization of new ideas in the line of aerodynamical investigation and research. The wind tunnel has been a source of valuable information to local airplane industries.

*Chemical Engineering.*—A modern fire-proof building houses the chemical laboratories. Fully equipped, separate laboratories are devoted to general chemistry, analytical chemistry, food inspection and analysis, organic chemistry, physiological chemistry, industrial chemistry, and pharmaceutical chemistry. All laboratories are equipped with hoods with forced drafts, water, gas, distilled water and air pressure. The chemical engineering laboratories are equipped with the fundamental types of apparatus used in manufacturing processes, such as filter press, hydraulic press, stills, grinding apparatus, heating furnaces and vacuo drying oven.

*Civil Engineering.*—The hydraulic laboratory is on the shore of Lake Union, where facilities are available for both medium and high head experiments. For medium head, a free water surface, one acre in extent, is provided at an elevation of 100 feet above the laboratory floor. High head supply is furnished by centrifugal pumps having a combined capacity of 2,500 gallons per minute under heads of 0 to 400 feet.

The materials testing laboratory contains five universal testing machines with capacities from 30,000 to 300,000 pounds, two impact machines with various hammers ranging in weight from 550 to 1,500 pounds, with the necessary auxiliary apparatus for general work.

The equipment for testing hydraulic cement is complete for all the ordinary tests as specified by the American Society for Testing Materials.

The road laboratory is equipped for testing materials used in the construction of roads. The machines for the abrasion and toughness test are of the standard designs adopted by the American Society for Testing Materials; other machines are similar to those used by the United States Bureau of Public Roads.

The surveying equipment consists of all the necessary instruments for plane and topographic surveying.

*Electrical Engineering.*—The dynamo laboratory contains twenty-three alternating and forty-one direct current generators and motors. The machines are of modern design and have a combined capacity of 375 kilowatts in direct current machines and 325 kilowatts in alternating current machines. Most of the machines are of five- or ten-kilowatt capacity. Power from a storage battery of 60 cells is available at a separate switchboard in the dynamo laboratory. The university power house, containing three steam-driven units of 400, 200, and 100 kilowatts, serves as a commercial laboratory for testing purposes.

Nine smaller rooms are devoted to the following: (a) Instrument making and repairing, (b) grinding room and shop, (c) instrument and stock room, (d) telephone laboratory, (e) electrolysis and special thesis problems, (f) storage battery rooms, (g) three dark rooms for photometry work, (h) radio laboratory, (i) transmission line laboratory. The instrument room contains 364 standard indicating and recording ammeters, voltmeters and wattmeters, four three-element G.E. oscillographs, a G.E. (Tirrell) A.C. regulator, a Fahy fluxometer, a klydonograph, a Tinsley A.C. potentiometer and a large collection of rheostats, tachometers, circuit breakers, instrument transformers and accessory apparatus.

*Engineering Shops.*—The shops are organized as a modern production unit with each of the five shop departments a contributing factor. The work

is routed successively through a pattern shop, foundry, forge shop, machine shop and assembly departments where it is completed and finally inspected.

**Mechanical Engineering.**—The steam and experimental laboratory is fully equipped with steam apparatus, including engines aggregating 1,000 H.P., simple and compound, high speed and Corliss types; steam turbines; jet and surface condensers; injector; centrifugal pumps; steam calorimeters; indicators; calibrating appliances; oil testing machine; gas engines of stationary and automobile types; a semi-Diesel 2-cylinder oil engine; Sprague electric dynamometer; Webster radiator testing outfit for vacuum systems of heating; ventilation fan equipment for tests; Nash vacuum pump; equipment for automobile testing; belt and pulley testing machine; gas producer plant; refrigerating apparatus; compressed air machinery for two stage compression and Westinghouse full train equipment; fuel testing facilities, including Maher Bomb, Junkers and other calorimeters, with accessories for determining heating value and analysis of solid, liquid and gaseous fuels.

#### FISHERIES LABORATORIES

**Ichthyology Laboratory.**—The ichthyology laboratory contains an extensive collection of named fishes, particularly rich in species from Puget Sound and Alaska. By exchange and other means a representative series of the fishes found in American waters, with particular reference to forms of economic importance, is being built up. There is a collection to illustrate the species of shellfish, crustaceans, and other invertebrate animals constituting the bases for the corresponding industries.

**Fish Diseases Laboratory.**—The laboratory for fish diseases is equipped for study of life histories of various parasites of aquatic animals, including aquaria for live subjects, and dark rooms for studying effects of various colored lights on the animals.

**Fisheries Laboratory.**—The apparatus laboratory is equipped with working models of the larger forms, fully rigged types of the smaller forms, of fishery apparatus and detailed plans for their construction; equipment for manufacture, repair, care and preservation of nets; models of fishing vessels and boats, and samples of various fishery products prepared for market.

**Canning Laboratory.**—The canning laboratory is equipped with all machinery and appliances necessary for preparation and canning of all varieties of food products, in either glass or tin containers, including paring and slicing machinery, preparation table, exhaust box, closing machines and retorts. Here instruction is given in the usual commercial methods, while research is carried on in the development of new methods or the modification of the old to meet new conditions.

**Curing and Drying Laboratory.**—The curing laboratory contains the necessary equipment for making pickling solutions and brines, and for the drying, pickling, mild-curing and smoking of the various food products.

**Fish Preservation Laboratories.**—Ultimately a small refrigeration and cold storage plant will be installed for economic study of various methods of freezing and preserving food products in cold storage.

A smokehouse will be built for the purpose of carrying on experiments in smoking of various species and their utilization as food either in this condition or canned.

**Testing Laboratory.**—The testing room has a constant temperature of approximately 98° Fahrenheit, and in it samples of canned fishery products can be incubated, by means of which swells may be separated from the other cans and the sufficiency of the process used in the cannery determined. Various vacuum gauges and can testers are also available.

*Research Laboratory.*—The research laboratory contains the necessary chemical and bacteriological apparatus for investigation of problems of the food preserving industry. Laboratory desks are equipped with water, gas and electricity, and with balances, microscopes, apparatus for microphotography, pressure cookers and hand closing machines. The equipment includes sterilizers, incubator, vacuum drying ovens, hot-plates, and the necessary glassware.

#### FORESTRY AND LUMBERING LABORATORIES

*Dendrology.*—Individual lockers. A large herbarium and extensive collections of tree seeds, cones, bark specimens. An arboretum of 160 acres, practically adjoining the University campus and to be managed in cooperation with the park board of the City of Seattle, is under way.

*Logging.*—Logging camps in the vicinity of Seattle afford unequalled opportunities for field work. Collections of logging equipment, such as wire rope, axes, saws, hooks, blocks, special appliances for donkey engines, a working model of a steam yarding engine and models of high lead yarding. A Dolbeer and a single drum donkey engine are installed in the logging engineering laboratory. New material is constantly being added to these collections.

*Milling.*—Field trips to the sawmills in and near Seattle. Extensive collections of lumber showing patterns and grades, shingles, saws, planer knives, belting, chain and other sawmill equipment. Additions to these collections are now being made very rapidly.

*Mensuration.*—Equipment selected to show principal types of instruments in use. Those adapted for use in the Northwest are provided in quantities sufficient for all practice work in cruising, surveying, volume, growth and yield studies.

*Silviculture.*—Forests around Seattle offer wide opportunities for practical studies and demonstrations. The extensive forest tree nursery of the College of Forestry affords excellent opportunity for practice in modern nursery methods.

*Timber Physics.*—Laboratory work is conducted in the U.S. Forest Service Timber Testing Laboratory, operated in cooperation with the University. The laboratory is magnificently equipped with seven large testing machines for static and impact loading, circular and band saws, planer and other shop equipment for wood-working, and forms the first completely equipped unit of the Forest Products laboratory.

*Wood Technology.*—Individual lockers, gas, water, compound microscopes and all apparatus for preparing and sectioning wood for microscopic study are provided. Hand specimens and planks of domestic and foreign commercial timbers are provided in large quantities. These include extensive collections of South American, Australian, Philippine, Japanese, Indo-Malayan, Indian and other foreign hardwoods. Microscopic slides of nearly all American woods are kept on hand for check specimens.

*Forest Products Laboratories.*—The Forest Products Laboratory will in the future house all research work in forest products, and has been planned with special provisions for an extensive pulp and paper laboratory, a wood preservation laboratory and special laboratories for research in wood technology, pathology, wood chemistry and wood utilization. The laboratories for work in forest products now ready on the campus consist of five distinct units, as follows:

1. *General Laboratory.*—Equipped with special wood sectioning and plain sliding microtomes, binocular research microscopes with me-

chanical stage and microscopes of usual pattern, special illuminating devices for microscopic studies, micro-projection apparatus, water-baths, large and small gas and electric drying ovens, platform scales, analytical and pulp balances, all apparatus necessary for the technical examination of wood preservatives, standardized thermometers, enlarging and reducing camera, standard horizontal photo-micrographic apparatus, dark room, and all incidental apparatus required in the detailed study of woody tissues.

2. Wood Preservation Laboratory.—A 14-inch by 12-foot retort, equipped with vapor drum and condenser, air compressor, vacuum pump and duplex pressure pump, is arranged for experimental work with any pressure process of treating wood. An open-tank plant of semi-commercial size is available for treatment of 9-foot material. It consists of one treating tank, two steel storage tanks for creosote and a wooden tank for the storage of metallic-salt solutions.

3. Wood Distillation Laboratory.—A retort of about one-half cord capacity is equipped with copper condensers, gas pump, gas tank and redistilling apparatus. This plant has been installed by the U.S. Forest Service for cooperative work with the University.

4. Dry Kiln Laboratory.—A dry kiln with a capacity of 10,000 feet B.M., equipped with a temperature controller, air compressor, hygrodeik, recording hygrometer and a recording thermometer is conveniently located on the University spur of the Northern Pacific Railway. Arrangements have also been completed at one of the local commercial plants whereby the College of Forestry is given complete control of an experimental kiln at the plant.

5. Pulp and Paper Laboratory.—A 100-pound capacity digester and a beating engine of equivalent capacity are provided for research in the pulping of wood. These will be installed in the near future.

6. Plywood Laboratory.—A special machine for testing the strength of plywood, a glue mixer, hydraulic press and all apparatus for the detailed study of plywood are provided.

*Commercial Plants.*—Plants for manufacture of paper, wood pipe, cooperage, excelsior, wood conduit, veneers, furniture, boxes, and numerous other secondary wood products are available for study. Four large creosoting plants and several smaller preservative plants are also available.

*Demonstration Forest and Experiment Station.*—This consists of a 60,000 acre tract comprising the Pilchuck-Sultan watersheds, formerly a part of Snoqualmie Forest. It is very conveniently reached from Seattle, and offers almost ideal conditions for a school forest. It has a stand of timber of over a billion and a half feet. Nearly all species of the Pacific Northwest are represented, but more than three-fourths is composed of Douglas fir, cedar and hemlock. As there is an excellent representation of age classes, the tract lends itself readily to scientific forest management. It is estimated that the tract will yield about \$75,000 annually on a substantial yield basis. It is expected that title of the tract will be completed this year.

*The Charles Lathrop Pack Forest.*—This is a tract of 1000 acres located at LaGrande, Washington, adjoining the Rainier National Park Highway. The tract will be used as an experiment station and as a public demonstration forest, the idea being to place forestry on display in show window fashion so the public may learn of the various methods of scientific forestry. It is admirably adapted for this purpose, having a frontage of about one mile on the highway and presenting a wide range of conditions. About one-third of the forest is second growth partly logged, one-third virgin Douglas fir forest with a stand of nearly a million and a half feet of timber, and the remainder is logged off and burned over. All of these areas are plainly visible from the highway. The money for the purchase of the forest and for putting it in shape was provided from the Charles Lathrop Pack Forestry Trust and by Doctor Pack himself.

## JOURNALISM LABORATORIES

The journalism laboratory is equipped with everything necessary to teach students how to dress a newspaper. For students interested in advertising, special equipment is provided. A laboratory library of publications from supply houses, is available, containing information on type, paper, engravings and all equipment of the publishing and allied trades.

## MINING, METALLURGICAL AND CERAMIC LABORATORIES

*Mining.*—The mining equipment may be divided into three groups as follows: exhibits designed for purpose of study, apparatus for experiment and practice, and field equipment. Numerous exhibits are in use, notably a full-size Trenton aerial tramway terminal, several models of mines and mining construction, 1700 lantern slides and two portable lanterns, several thousand photographs, maps, blue prints, and drawings, sets of mine lamps, and extensive collections of ores and minerals from prominent mining districts.

The drilling equipment consists of single and two-stage Ingersoll-Rand air compressors with receivers, four of the newest types of rock-drills, two piston drills, column mountings and tripods, a Sullivan power-driven diamond drill complete, an Empire placer drill, sets of steel of several sections, forges, sharpening tools, a drill press, grinding wheels, tools, and accessories. Practice with the air drills and the diamond drill is had in a special shed built in the form of a mine drift, where deep holes can be drilled in all directions. For studies in mine ventilation, blowers and fans connecting with both metal and canvas pipes are in service; an anemometer, gages, air meter, safety lamps, and the most recent equipment for testing mine gases are provided. A Tubinair portable hoist is used for moving heavy apparatus.

The varied deposits of glacial drift on the University campus afford good practice ground. Blasting experiments with varied equipment are carried on in the hard morainal clay where results can be clearly seen. For practice in testing placer ground the Empire drill is used for boring test holes. Practice in methods of saving placer gold is given with standard sluices provided with several forms of riffles. Placer gold of various sizes of grain is added to the gravel and its recovery is checked.

Pieces of hand equipment such as barometers, Brunton compass, dip needle, and other instruments are provided for student use on excursions to the nearby mines.

*Ore Dressing.*—The new laboratory was designed for testing not only ores but also non-metallic mineral substances, which are of great importance in Washington and the Northwest. The equipment is the newest and most complete that could be obtained. The crushing machinery, placed on the floor, consists of a 7 by 10-inch Blake breaker, a 4x6-inch Dodge, a Traylor gyratory, a pair of 16x10-inch and a pair of 8x5-inch highspeed Sturtevant rolls, small crushers, and disc pulverizers. A hydraulic elevator lifts the crushed ore to the third floor where Locke and shaking feeders start it on its progress through the mill. The grinding mills consist of a 3x2-foot Marcy ballmill, a 2x4-foot and a 1x2-foot Marcy ball or rodmill, a Hardinge 20x5-inch mill, and smaller grinding mills. A Dorr bowl-classifier, a Dorr thickener, an Atkins classifier, a Fahrenwald, a Bird, and several Richards classifiers are in service, also four jigs. The concentrating tables include a Wilfley sand-table and a Deister-Overstrom slimer in full size, a Plat-O in half size, and three smaller Wilfleys.

For testing magnetic ores and sands a Dings magnetic separator of Rowland-Wetherill type with both high and low intensity, a Davis tubetester, and an electro-magnet are provided. A 3-stamp battery fed by a challenge feeder delivers pulp to silvered copper plates and a Pierce amalgamator, thence to the concentrating tables. The flotation laboratory contains ten different cells of the most recent types. The screening equipment includes

Hummer, Leahy, Newaygo, Ro-Tap, and other makes. The design of the mill permits a gravity flow but a Dorrco pump and a Wilfley sand pump can be used to elevate pulp. Among the items of special equipment are a Chance sand-flotation apparatus, an Oliver filter, and a form of Leitz microscope recently designed for studying mill products. The accessory equipment such as feeders, launders, samplers, settlers, dryers, scales, and trucks is very complete. Abundant water is available in the mill under both high and low heads.

*Metallurgy.*—The fourth floor of the new building is devoted to metallurgy proper. Separate laboratories are provided for general metallurgy, fire assaying, wet analysis, fuels, electrolytic work, research, and metallography, besides the balance rooms, dark room and stock room. The furnaces consist of two standard-size, double-muffle Denver oil burners, also gas and gasoline-fired and electric muffle furnaces, and a Hoskins 12.5 KW electric melting furnace. Pyrometers and three types of calorimeters are provided. Among the new pieces of special apparatus may be noted a Leitz complete photo-micrographic apparatus, a set of microscopes for metallography, an Orsat gas-analysis apparatus, Parr's total-carbon apparatus for coal, Brinnell and scleroscope machines for testing hardness.

*Coal Washing.*—The coal section of Mines Laboratory consists of three floors surrounding an open well or hatch, a lower main floor, and a sub-basement. Coal for testing is received on the ground floor, in lots up to thirty tons, and is screened to remove large sizes. Smaller sizes pass into a concrete bin from which they are drawn to elevators for transportation to screens on the fourth floor, the screened products falling into bins on the third floor. From the bins, gravity flow delivers the screened sizes to the second floor, where classifiers, jigs, tables, and other forms of washing equipment are located. Products from these machines may flow to a sludge tank on the lower floor for settling and dewatering.

The building also contains fuel and analytical laboratories for the College of Mines and the U.S. Bureau of Mines, a room for conducting float-and-sink tests, a sampling room, a coal crushing and grinding room for the preparation of samples, a large sludge tank with automatic rakes, and a two-stage compressor which supplies air for the entire building.

*Ceramics.*—The ceramic equipment, offices and class rooms are housed in Mines Laboratory. The apparatus may be used for both manufacturing and testing ceramic products. The heavy brick machinery consists of a 4-foot Crossley dry and wet pan, a Mueller universal auger machine with cutting table, and a large American dry brick press. Pottery machinery includes a Patterson clay washing outfit with a double blunger, power screens, agitator, pump and filter press, a potter's pug mill, jolly wheel and plaster molds for both jollying and casting ware. The terra cotta equipment consists of pressing molds, a De Vilbiss spraying apparatus, engobe and glaze materials, and glaze-grinding ball mills. Firing apparatus includes an oxygen acetylene cone-fusion furnace; a 3-foot, high-temperature, load-test kiln for two bricks; two portable muffle pottery kilns; a 10 by 7-foot muffle down-draft terra cotta kiln; and a two-pot, 4 by 10-foot glass furnace. The kilns are fired with both gas and oil, and are equipped with thermo-couple, radiation, and optical pyrometers.

A humidity dryer complete with recording apparatus has recently been built; other additions are a Brown recording electric carbon-dioxide apparatus, a petrographic microscope, and a newly designed portable machine for testing the transverse strength of full-sized brick.

#### PHARMACY, MATERIA MEDICA AND CHEMISTRY LABORATORIES

Rooms devoted to pharmacy, materia medica and chemistry are located in Bagley Hall, a three-story fireproof building, and in the Pharmacy Annex. Special sections are provided for pharmacy students in general, organic and



qualitative chemistry. Work in prescription practice receives special attention in the Pharmacy Annex. This building contains one large room arranged and equipped as a model prescription pharmacy; a second but smaller room equipped with optimum fixtures donated by Stewart and Holmes Drug Company, arranged and equipped as a sales room. The prescription room contains displays of pharmaceuticals from many of the leading pharmaceutical houses.

#### PHYSICS LABORATORIES

In addition to its general laboratories the department of physics is rapidly equipping the Bureau of Testing to meet the demands for accurate calibration and testing of scientific instruments. Standards of the bureau will be calibrated by the National Bureau of Standards at Washington, D.C. The bureau is prepared to calibrate direct and alternating current instruments, determine candle power of lamps, measure temperature, both high and low, and, to a limited extent, to standardize weights. Persons desiring to have work done should address the director, Frederick A. Osborn.

#### UNITED STATES BUREAU OF MINES NORTHWEST EXPERIMENT STATION

The Department of Commerce maintains at the College of Mines its Northwest Experiment Station, which serves the Pacific Northwest and the coast regions of Alaska. The headquarters of the station, from which all operations in this territory are directed, are in Mines Laboratory. At present the principal investigations being conducted by the station are in the treatment and uses of coal and of other non-metallic substances. Members of the experiment station staff give occasional lectures to the students of the University on subjects dealing with their special lines of work.

*Mine Safety Station.*—The Mine Safety Station of the United States Bureau of Mines occupies a separate building located near Laurelhurst boulevard. Various types of oxygen rescue and resuscitation apparatus are kept on hand for practice and use in mine rescue work. The purpose of the station is to train miners in the use of oxygen helmets, which are used in cases of mine fires and explosions in both coal and metal mines. From ten days to two weeks' time is required for the course of training. The applicant is taught the construction of the apparatus and is required to wear it for four hours each day, in two periods of two hours each. The practice is carried on in a room filled with gas which cannot be breathed without immediate danger, and the work performed is the same as that which would be required in actual mining operations or rescue work. The smokers room represents a portion of a mine, and is equipped with mine car-track, overcast, timbers and brick. First-aid instruction is also given. Applicants who have completed the course of training receive a certificate from the United States Bureau of Mines.

A one-ton, 45-horsepower automobile truck, equipped with rescue apparatus ready for emergency calls, forms part of the equipment of the safety station.

#### ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station was formally organized in December, 1917, to coordinate the engineering investigations in progress and to facilitate development of industrial research in the University.

The scope of the work is two-fold:

(a) To investigate and to publish information concerning engineering problems of a more or less general nature that would be helpful in municipal, rural and industrial affairs.

(b) To undertake extended research and to publish reports on engineering and scientific problems.

The purpose of the station is to aid in the industrial development of the state and nation by scientific research and by furnishing information for solution of engineering problems. Every effort will be made to cooperate effectively with professional engineers and the industrial organization in the state. Investigations of primary interest to the individual or corporation proposing them, as well as those of general interest, will be undertaken through the establishment of fellowships.

The control of the Engineering Experiment Station is vested in an administrative staff consisting of the president of the University, the dean of the College of Engineering, ex-officio director, and eight members of the faculty.

For administrative purposes, the work of the station is organized into eight divisions: (1) forest products, (2) mining and metallurgy, (3) aeronautical engineering, (4) chemical engineering and industrial chemistry, (5) civil engineering, (6) electrical engineering, (7) mechanical engineering (8) physics standards and tests. Inquiries in regard to the work of the Experiment Station should be addressed to the director.

#### BAILEY AND BABETTE GATZERT FOUNDATION FOR CHILD WELFARE

On December 21, 1910, this foundation was established by a gift to the University of \$30,000 made by Sigmund Schwabacher and by the executor of the will of the late Abraham Schwabacher. The purpose of the foundation is (1) to conduct a laboratory for the mental and physical examination of children in order to determine their individual defects and aptitudes and, in accordance with the results of the examination, to suggest the best means of education and treatment; (2) to assist in establishing child welfare agencies and child study laboratories throughout the state, and, (3) to carry on research in child psychology.

In December, 1915, the Bailey and Babette Gatzert Foundation for Child Welfare was created a separate department of the University.

## GENERAL INFORMATION

### THE UNIVERSITY ORGANIZATION

The University of Washington is one of five institutions of higher education which complete the state's system of public education, the others being the state college and the three normal schools. To the University is given exclusive authority to instruct in the following major lines: Aeronautical engineering, architecture, commerce, fisheries, forestry, journalism, law, library science, marine engineering and medicine.

The University has concurrent authority with the state college to instruct in the following major lines: Chemical engineering, civil engineering, electrical engineering, home economics, liberal arts, mechanical engineering, mining, pharmacy, professional training of high school teachers, school supervisors and school superintendents, and pure science.

*Schools and Colleges and Their Fields.*—The University is organized in the following schools and colleges:

- (A) *The Colleges of Liberal Arts and Science*, which provide a liberal education in arts and pure science, in a course normally requiring twelve quarters of residence, leading to the degrees of bachelor of arts and bachelor of science.
- (B) The professional and technical schools and colleges including:
  - (1) *The College of Business Administration*, covering the fundamental scientific training in industry and commerce in a course of twelve quarters leading to the degree of bachelor of business administration.
  - (2) *The School of Education* requires for admission six quarters of approved work in any college of the University, and offers an advanced course of six quarters preparing students for careers as high school teachers and school administrators. The degrees are bachelor of arts or bachelor of science, in education. Students in the College of Liberal Arts may major in the department of education and receive the degree of bachelor of arts.
  - (3) *The College of Engineering* has four departments: chemical, civil, electrical and mechanical engineering (including aeronautical and marine), with curricula of twelve quarters leading to the degree of bachelor of science in the special field chosen by the student. The degree of master of science in each field is open to graduate students.
  - (4) *The College of Fine Arts* offers curricula of twelve quarters in architecture, vocal, instrumental, or public school music, or musical theory, painting and design, public school drawing, music and drawing, and dramatic art, leading to the degrees of bachelor of architecture, bachelor of music and bachelor of fine arts, or bachelor of arts with a major in one of the subjects named.
  - (5) *The College of Fisheries* lays a scientific foundation for work connected with the fisheries industry, one of the chief resources of the Pacific Coast. Bachelor of science in fisheries is the degree offered.
  - (6) *The College of Forestry* offers a curriculum of twelve quarters preparing for work in scientific forestry or in the lumber industry, leading to the degree of bachelor of science. The full professional course is fifteen quarters, with a liberal

allowance of electives, giving opportunity for specialization in forest service and state work, logging engineering, forest products, or the lumber business. For this course the degree of master of science is given in the Graduate School.

- (7) *The School of Journalism* requires for entrance junior standing, that is, completion of two years of college work in liberal arts or science. The curriculum leads to the degree of bachelor of arts in journalism and prepares its students for practical newspaper work.
  - (8) *The School of Law* is the standard of approved law schools for admission to the bar of this state. For admission the student must have junior standing from the College of Liberal Arts or the College of Science, or its equivalent. The curriculum of the school covers nine quarters, leading to the degree of bachelor of laws. The degree of master of arts also is given. Students may carry on work in liberal arts or science and law concurrently, taking both bachelors' degrees in six years, or eighteen quarters.
  - (9) *The Library School* prepares students for librarianship in a technical curriculum extending through three quarters following either three or four years of academic study. On completion of the library school curriculum (45 credits), the degree of bachelor of science in library science is given.
  - (10) *The College of Mines* offers curricula of twelve quarters leading to the degree of bachelor of science in mining engineering, geology and mining, metallurgical engineering, or coal mining engineering. The fields open to graduates of this college are indicated by these divisions. The college also offers a curriculum in ceramics (clay, glass and cement products). The degree of master of science, with a major in one of these lines, may be obtained in the Graduate School.
  - (11) *The College of Pharmacy* offers three-year and four-year courses, the first giving preparation in technical and commercial pharmacy, and the second providing a well-rounded scientific training in this field. The three-year course leads to the degree of pharmaceutical chemist, and the four-year course to the degree of bachelor of science in pharmacy. A fifth year in the Graduate School offers an opportunity for graduate research work leading to the degree of master of science in pharmacy.
- (C) *The Graduate School* offers work leading to the degrees of master of arts, master of science, master of arts or master of science in technical subjects, certain technical or professional master's degrees (as, for example, master of business administration), and doctor of philosophy. A master's degree presupposes at least one year of resident work of high grade and special character, and a doctor's degree at least three years of such work. The University is placing increased emphasis upon its graduate work.

*Definitions and Explanations.*—In all statements relating to the University the word *course* refers to a single study pursued for a definite period, for which credit may be given toward University requirements for graduation in accordance with the number of hours taken. A *curriculum* is a group of courses arranged to be followed consecutively or concurrently. A *department* is the unit of instructional organization in a particular sci-

ence or art, as the department of geology. A *college* gives full curricula, beginning with the work of the freshman year and covering twelve quarters. The work of a *school* is preceded by two or more years of college work.

The four-year programs of the Colleges of Liberal Arts and Science are divided into the *lower division* (freshman and sophomore) and *upper division* (junior and senior.)

The term *unit* is applied to work taken in high school; a *credit* to work taken in college. To count as a unit, a subject must be taught five times a week, in periods of not less than forty-five minutes, for a school year of thirty-six weeks. A University credit is given for one hour of recitation a week throughout one quarter. Thus a quarter course in which there are five recitations a week is a five-credit course.

The term *major* is applied to the department or subject in which a student elects to specialize.

*Special Curricula Within the Schools.*—Certain semi-professional curricula are given for which no special school or college is provided. Such is the curriculum in nursing and public health in the College of Science.

The University does not give a medical course, but offers a pre-medical curriculum especially planned as a foundation for study in a medical school. This may be two years in length for schools not requiring college graduation, or four years for schools requiring that amount of preparation.

Under provisions of the National Defense Act, students in the University may attain commissions as reserve officers in the United States Army by meeting the requirements for advanced work in military science. This can be done without interference with the student's regular academic work.

*The Four-Quarter System.*—The University is operated on the four-quarter system, each quarter having approximately twelve working weeks. The Autumn Quarter begins in October, the Winter Quarter in January, the Spring Quarter in April, and the Summer Quarter in June. The University is closed only through September. Careful reading of the calendar will show the working of this plan in detail. Students may enter at the beginning of any quarter. The quarter system permits them to do a full quarter of university work in the summer in most curricula; to complete a university course in three years if health and resources permit; or otherwise to adjust their university residence to meet personal conditions. This flexible plan is of especial advantage in the University of Washington because the absence of extremes in climatic conditions is favorable to mental work at all times of the year.

## ADMISSION TO THE UNIVERSITY

### GENERAL STATEMENT

*All correspondence regarding admission of students to the resident courses of the University and requirements for graduation, should be addressed to the registrar.*

Students are admitted to the resident work of the University by certificate or by examination. Only recommended graduates of fully accredited four-year secondary schools are admitted on certificate. Students are classified as graduates and undergraduates. Undergraduates are classified as regular students (freshmen, sophomores, juniors and seniors), unclassified students, and special students.

## ADMISSION BY CERTIFICATE

A graduate of a four-year accredited secondary school, whose course has covered the requirements for entrance and who meets the scholarship requirement outlined below, will be admitted upon recommendation of his principal and the presentation of a satisfactory certificate. Since school diplomas do not give the necessary information, they cannot be accepted for this purpose. Principals of all accredited high schools in the state are furnished with official blanks, which also may be obtained from the registrar's office. Credentials accepted toward admission to the University are kept on permanent file.

*Credentials for students expecting to enter the University in the autumn quarter, 1927, should be filed in the registrar's office not later than August 15. It is obligatory to submit at entrance, records from all schools previously attended, together with all credentials showing present membership, or past service, in the army, navy, marine corps, National Guard, naval militia, or the United States Coast Guard.*

No student may be accepted for admission from a high school who would not be recommended to the University of his home state.

A student graduating from a school system which provides for less than 12 years of instruction may be held for additional high school work.

## REVISED ENTRANCE REQUIREMENTS

(Effective, Autumn, 1927)

Students applying for admission prior to the autumn of 1929-30, will have the option of having their entrance credentials checked in accordance with the requirements of this catalogue or of the catalogue published in 1926. It is understood that the student will be given the advantage of any provisions under either the new or the old requirements while the adjustments are being made.

1. *Units Required.*—A student having graduated from an accredited high school, is required to present twelve \*units of work done entirely in the 10th, 11th and 12th grades. Of the twelve units, not more than four may be in courses primarily designed for ninth grade students. One unit may be made up of fractional credits earned in music, physical education, debate, dramatics, and in other subjects accepted by the high school for graduation. The twelve units shall be distributed as follows:

- (a) Not more than three units in technical or vocational subjects (except for the College of Business Administration, as noted below).
- (b) At least eight units from academic groups (English, Mathematics, Natural Science, Social Science, Foreign Language,) so chosen as to include two units of English, but nine academic units are required for all students who do not present a unit of fractional credits in other subjects accepted by the high school for graduation.
- (c), The specific requirements of the college to which admission is sought, must be met. These are as follows:  
LIBERAL ARTS: A second unit of one foreign language, and one unit of geometry.

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\* A "unit", is applied to work taken in the high school. To count as a unit, a subject must be taught five times a week, in periods of not less than forty-five minutes, for a school year of thirty-six weeks.

SCIENCE: A second unit of one foreign language, and one unit of geometry.

BUS. ADMIN: One unit of mathematics.† Six units of technical electives may be offered, at least three of which must be in commercial subjects.

ENGINEERING: Solid geometry, advanced algebra, one unit of physics, one-half unit of shop work, and one unit of plane geometry.

FINE ARTS: Two units of foreign language, one of which may be taken in the ninth grade; for architecture, one unit of plane geometry, in addition to the language requirement.

FISHERIES: No specific requirements.

FORESTRY: Advanced algebra, one unit of plane geometry.

MINES: Solid geometry, advanced algebra, and one unit of physics.

PHARMACY: No specific requirements.

A student is advised not to attempt to enter the University until he is able to register in his chosen college without deficiencies. Under certain circumstances and with the approval of the dean of the college concerned, however, certain deficiencies in specific college requirements may be removed after entrance in the University.

2. *Scholarship Required.*—For the year beginning with the Autumn Quarter of 1927-28, a minimum of eight units must be represented by grades which are at least one step above the passing mark when letters are used to designate grades, or above the passing percentile grade at least one-fourth of the difference between the passing grade and 100 per cent. Such grades shall be known as recommending grades. Beginning with the autumn quarter of 1929-30, and thereafter, nine such units will be required.

3. *Recommending Grades.*—A student who fails to present recommending grades in the required number of units, may try to raise his grades in one of the following ways:

- (a) By repeating the necessary subjects in the high school.
- (b) By attending the Summer High School.
- (c) By taking regular fall deficiency examinations in the high school after having made provision therefor early in the summer.
- (d) By taking the entrance examinations in the University.

When a student repeats or reviews subjects for the purpose of earning recommending grades, he should choose, when choice is possible, subjects which will be of greatest value to him in college work. The advice of the high school principal should be sought in deciding upon approved subjects.

4. *Provisional Admission.*—A student who fails to meet the preceding requirements and has not received more than two semester failures in the 10th, 11th, and 12th grades, may be admitted for one quarter upon the principal's recommendation based upon a record showing:

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† Commercial arithmetic credit does not satisfy this requirement.

- (a) A satisfactory score in a psychological examination.  
 (b) A rating upon (1) Working traits and (2) Special ability.

It should be understood that the object of this rule is to provide for students of exceptional gifts or qualifications along some line, and not to bolster up the ordinary student who falls short of some part of the general admission requirements.

#### ACCREDITED SCHOOLS

The list of accredited secondary schools in the State of Washington is as follows for the year 1927-28.

Aberdeen	Eatonville	Maple Falls	Richmond Beach
Adna (U. H.)	Edison	Maple Valley	Ridgefield
Albion (U. H.)	Edmonds	Marcus	Ritzville
Almira	Edwall	Marysville	Riverside
Anacortes	Ellensburg	Mead	Rochester
Anatone	Elma	Medical Lake	Rockford
Arlington	Endicott	Menlo	Rosalia
Asotin	Enlat	Meridian (U. H.)	Roslyn
Auburn	Enumclaw	Kent, R. 1.	Roy
Battle Ground	Ephrata	Meridian, Bellingham,	St. John
Bellevue (U. H.)	Everett	R. 2.	Seattle
Bellingham	Fairfield	Milan	Ballard
Whatcom	Fall City	Millwood	Broadway
Fairhaven	Farmington	Molson	Franklin
Benton City	Ferndale	Monroe	Garfield
Bickleton	Fife	Montesano	Lincoln
Black Diamond	Pinley	Morton	Queen Anne
Blaine	Poser	Mossy Rock	West Seattle
Boltonfort	Friday Harbor	Mount Vernon (U. H.)	Roosevelt
Bothell	Garfield	Moxee	Sedro-Woolley
Bremerton (U. H.)	Gig Harbor	Naches	Selah
Brewster	Goldendale	Napavine	Sequim
Bridgeport	Grandview	Naselle	Shelton
Buckley	Granger	Newport	Silverdale
Burlington (U. H.)	Granite Falls	Nooksack	(Port Washington
Burton (U. H.)	Hamilton	(Victory H. S.)	Bay)
Camas	Hanford	North Bend	Skykomish
Carbonado	Harmony	Northport	Snohomish
Cashmere	Harrington	Oakesdale	Snoqualmie
Castle Rock	Hartline	Oak Harbor	South Bend
Cathlamet	Highline	Oakville	Spangle
Centerville	Hillyard	Odessa	Spokane
Centralla	Hoquiam	Okanogan	Lewis and Clark
Chehalis	Hunter	Olympia	North Central
Chelan	Ilwaco	Omak	Sprague
Cheney	Ione	Onalaska	Stanwood
Chewelah	Issaquah	Oroville	Steptoe
Chimacum	Kahlotus	Orting	Stevenson
Clarkston	Kalama	Otis Orchard	Sultan
Cle Elum	Kapowsin	Outlook	Sumas
Colfax	Kelso	Pateros	Sumner
Colville (U. H.)	Kennewick	Palouse	Sunnyside
Concrete	Kent	Pasco	Sunnyslope
Connell	Kettle Falls	Pe Ell	Tacoma
Coulee City	Kirkland (U. H.)	Peshastin	Lincoln
Coupeville	Kittitas (U. H.)	Pomeroy	Stadium
Cowiche	La Center	Port Angeles	Tekoa
Crescent	La Conner	Port Orchard (So.	Tenino
Creston	La Crosse	Kitsap H. S.)	Thorpe
Custer	Lake Stevens	Port Townsend	Tieton
Davenport	Langley	Poulsbo	Toledo
Dayton	Latah	Prescott	Tolt (U. H.)
Deer Park	Leavenworth	Prosser	Tonasket
Deming (Mt. Baker	Lebam	Pullman	Toppenish
H. S.)	Leland-Quilcene	Puyallup	Touchet
Dixie	Lind	Quincy	Twisp
Doty	Longview	Rainier	Two Rivers
Dryad	Lower Naches	Raymond	Vader
Dryden	Lynden	Reardan	Valley
Duvall	Mabton	Redmond	Valleyford
East Mill Plain,	Malden	Renton	Vancouver
R.F.D., Vancouver,	Mansfield	Republic	Vashon
(U. H.)	Manston	Richland	



Veradale	Washougal	White Bluffs	Winslow
(Central Valley)	Washtucna	White Salmon	Woodland
Waitsburg	Waterville	Wilbur	Yacolt
Walla Walla	Waverly	Wilson Creek	Yakima
Wapato	Wenatchee	Winlock	Yelm
			Zillah

### Other Secondary Schools in the Northwest

Allen Preparatory School, Portland.	Lakeside School, Seattle
Anchorage High School, Alaska.	Moran School, Rolling Bay.
Annie Wright Seminary, Tacoma.	O'Dea High School, Seattle
Aquinas Academy, Tacoma.	Pacific Lutheran Academy, Parkland, (provisional).
Central School of the Christian Brothers, Butte, Montana.	Petersburg High School, Alaska
Columbia University, Preparatory School, Portland (provisional).	Providence Academy, Vancouver.
Cordova High School, Alaska.	Seattle College, Academy, Seattle.
Douglas High School, Alaska.	Seattle Pacific College, Academy (provi- sional).
Fairbanks High School, Alaska.	Spokane College, Academy (provisional).
Forest Ridge Academy, Seattle (provisional).	St. Dominic's Academy, Everett.
Gonzaga University, High School, Spokane.	St. Helens Hall, Portland.
Holy Angels Academy, Seattle (provisional).	St. James Cathedral High School, Seattle.
Holy Names Academy, Spokane.	St. Martin's College, High School, Lacey.
Holy Names Academy, Seattle.	St. Nicholas School, Seattle.
Immaculate Conception High School, Seattle.	Walla Walla College, Academy (provisional).
Juneau High School, Alaska.	Wrangell High School, Alaska (provisional).
Ketchikan High School, Alaska.	Y.M.C.A. High School, Seattle.

### Schools Outside of Washington

Graduates of other secondary schools in states outside of Washington will be admitted on the same terms as graduates of accredited schools of Washington, provided the school in question is fully accredited (1) by the North Central Association of Schools and Colleges, (2) by the New England College Entrance Certificate Board, or (3) by a leading university whose standards of admission are practically the same as those of the University of Washington. The University of Washington reserves the right to require examinations of graduates of such schools in all cases where it seems advisable to do so.

### ADMISSION TO ADVANCED STANDING

Applicants for advanced standing are required to furnish a complete certified statement of both preparatory and college credits, together with a letter of honorable dismissal from the institution last attended.

**School of Law.**—Requirements for admission to the School of Law are: Clear entrance to the College of Liberal Arts or the College of Science; 90 hours, (two years) of advanced credit in freshman and sophomore courses; covering all prescriptions for admission to upper division standing in the College of Liberal Arts, and 10 hours of military science or physical education. Students who have not complied with the foregoing, may be admitted to the Law School upon the completion of three years' work leading to a bachelor's degree in the University of Washington or any institution ranking therewith, provided further that such work shall meet with the approval of the Dean of the Law School.

**School of Journalism.**—Requirements for admission to the School of Journalism are: Clear entrance to the College of Liberal Arts; 90 hours, (two years) of advanced credit in freshman and sophomore courses: covering all prescriptions for admission to upper division standing in the College of Liberal Arts, and 10 hours of military science or physical education.

**School of Education.**—Requirements for admission to the School of Education are: Clear entrance to any college of the University; 90 hours of college credits in courses approved by the faculty of the School of Edu-

cation and the faculty of the college concerned, and 10 hours of military science or physical education.

*Library School.*—1. Graduate students are admitted who hold the baccalaureate degree from any college or university of good standing, whose undergraduate work in either or both high school and college has included the equivalent of at least twenty college credits each in two modern foreign languages, German and French preferred. Slight deficiencies in the languages, however, may be accepted as conditions, but must be removed within the period of study in the Library School.

2. Students are admitted who have qualified for senior standing in the College of Liberal Arts or in the elective curricula in the College of Science, having earned 145 credits, including 10 credits in military science, or physical education, and including all required work. However, students who lack not more than fifteen credits of senior standing (including the languages required above) may be admitted with permission of the dean, but such students must complete the 180 plus 10 hours required for graduation.

*Advanced Undergraduate Standing.*—Students from classes above the first year, who present letters of honorable dismissal from other colleges of recognized rank, may be admitted to the advanced standing for which their training seems to fit them. No advanced credit will be given for work done in institutions whose standing is unknown, except upon examination. Definite advanced standing will not be given until the student has been in residence at least one quarter.

*Admission of Normal School Graduates to Advanced Standing.*—Graduates of the two-year curriculum of approved normal schools may receive junior standing provided their credits meet the requirements of the University for entrance, scholarship standards, and credit-hour load.

In fulfilling the requirements of university curricula that allows a large number of elective hours, such as that of the School of Education, normal schools credits can usually be fairly well applied. As a rule, a student cannot count much more than two years of normal school work toward completion of curricula that require a major of thirty-five or more hours consecutive and coordinated work in one department. In many set technical or professional courses only a very limited amount of normal school credit can be used.

For graduation with a bachelor's degree a student admitted with advanced credit from a normal school must earn in the University a sufficient number of credits to bring the total up to a minimum of 180 quarter hours (exclusive of required physical education or military science). He must satisfy such specific requirements of the degree as have not been fairly satisfied by previous work.

A minimum of 36 quarter hours earned in three full quarters in the senior year in residence is required for any degree offered by the University.

#### ADMISSION TO GRADUATE STANDING

A bachelor's degree from a college or university of good standing is required for admission to the Graduate School. For further details, see Graduate School section.

## ADMISSION BY EXAMINATION

Applicants for admission by examination are required to pass, with grades above 78 per cent in at least two-thirds\* of the required work, an examination based on a four-year course totaling fifteen units and covering the requirements of the college the student wishes to enter. The passing grade is 70.

## ENTRANCE EXAMINATIONS

Entrance examinations are held at the registrar's office on the following dates: July 18, 19, 20, 1927; September 21, 22, 23, 1927; and December 14, 15, 16, 1927; March 12, 13, 14, 1928; June 6, 7, 8, 1928; and July 18, 19, 20, 1928. On these days the following schedule will be adhered to:

First Day	Second Day	Third Day
9-11 English	U. S. History	Physics
11-1 Algebra	Civics	German
2-4 Greek and Latin	Economics	Solid Geometry
Sciences except Physics	Plane Geometry	French
Trigonometry	Spanish	Commercial
	History other than	Vocational
	U.S.	

Entrance examinations will also be held on request at the following points in the state, on July 18, 19, and on September 6, 7, 1927:

Bellingham	Ephrata	Vancouver
Centralia	Montesano	Walla Walla
Clarkston	Olympia	Waterville
Colfax	Pasco	Wenatchee
Dayton	South Bend	Yakima
Ellensburg	Spokane	

Applications for examinations must be filed with the registrar of the University at least three weeks before the dates on which the examinations are held. Proper blanks are obtainable from the registrar on request. (See page 42.)

Certificates of successful examinations before the College Entrance Examination Board will be accepted in lieu of matriculation examinations conducted by the University of Washington. With this exception the only examinations recognized for giving entrance credit are the regular scheduled examinations held at the registrar's office, or such other examinations as are authorized by the Registrar.

## FOREIGN STUDENTS

Students from schools in foreign countries and non-English speaking communities will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge of English, acquaintance with American methods of instruction, and plans of study, to enable them to carry regular college work successfully. An examination will be required by the registrar on these supplementary points.

Students from foreign schools whose standing is not known to be the equivalent of accredited American schools may be required to pass examinations in designated subjects. A special orientation course is offered for which a special fee of (\$20) twenty dollars is charged. This may be required of students who are found to need this special training.

\*Three-fourths after September, 1920.

## ADVANCED CREDIT BY EXAMINATION

A student may be examined for advanced credit in work that he has not followed in a college class at the University, with the approval of the department concerned. Credits and grades so obtained, must be certified by the examiner and the dean concerned, and shall not be given for work done while the student is in residence.

A student desiring to take an examination for advanced credit must first file an application and obtain a permit at the registrar's office.

Special claims for advanced credit based on credentials are passed on by a committee consisting of registrar and the dean of the college concerned.

## UNCLASSIFIED STANDING

If a graduate of a four-year accredited secondary school meets the scholarship requirements outlined on page 43 but lacks the specific subject requirements for admission to freshman standing he may be admitted as an unclassified student subject to the general regulations set by the various colleges\*. Such a student will be allowed to enroll only in courses for which he has had adequate preparation. By virtue of his classification he is not a candidate for a degree, but he may ultimately become a candidate for a degree by fulfilling as part of his college prescriptions all the requirements for entrance to and graduation from the college in which he is registered. An unclassified student is required to register on entrance in such a way that all prerequisites will be satisfied by the end of his fourth quarter of residence. Failure to comply with this requirement will make him ineligible for readmission until regular standing has been acquired.

## ADMISSION OF SPECIAL STUDENTS

Special students are students of mature years who have not had the opportunity to complete a satisfactory high school course but who, by reason of special preparation and attainments, may be qualified to undertake certain courses, though not as candidates for degrees.

No person less than twenty-one years of age will be admitted to the status of special student, but it is specifically emphasized that mere attainment of any given age does not constitute adequate qualification for admission to this status.

In general, a student from an accredited high school will not be admitted to this classification if he has been in attendance in the high school during the previous year.

The graduates of an accredited high school are not admitted as special students, but are expected to qualify for regular undergraduate standing in accordance with the general rules.

The University has no "special courses"; all courses are organized for regular students—that is, students who have had the equivalent of a good high school education and have been fully matriculated. Special students are admitted to these regular courses for which, in the judgment of the instructor, they have satisfactory preparation.

Entrance examinations in the subjects of fundamental importance for the work proposed will be assigned in all cases in which the Committee on Special Students deems such examinations advisable.

All available certified records for previous school work must be submitted to the registrar at least a month before the beginning of the quarter which the student desires to attend. Such a student must file an application for admission showing the kind of work he desires, the reasons for desir-

\* See page 42.

ing such work, and if no credits can be presented, a detailed statement of any previous educational work and practical experience with a list of subjects in which the candidate is prepared to take entrance examinations. Special blanks for this information are provided.

By virtue of his classification, a special student is not eligible for any degree. He may ultimately become a candidate for a degree, however, by completing the admission requirements of the college in which he is enrolled.

Special students are not eligible to take part in student activities.

Persons desiring to be admitted as special students will apply to the registrar for the necessary application and credential blanks.

#### AUDITORS

With consent of instructors concerned any mature person, not registered as a student in the University, may be enrolled at the registrar's office as an auditor in not more than two courses on payment of a fee of \$10 a quarter. This provision does not apply to laboratory courses, or to courses offered in the summer quarter.

Rule 1. (a) In the summer quarter, any mature person, with the consent of the dean and the instructor concerned and upon payment of the regular tuition fee, may enroll at the registrar's office as auditor in any number of non-laboratory courses or the lecture parts of any number of laboratory courses.

(b) Persons who, while registered in the University, have attended courses as auditors, shall, in no case, be permitted to take the examination in such courses or obtain credit therefor.

No person may regularly attend any course in which he has not been registered or enrolled as an auditor.

#### REGISTRATION

Registration for all students for the autumn quarter will take place prior to Monday, October 3; for the winter quarter prior to Monday, January 3, 1928; for the spring quarter, prior to Monday, March 26, 1928, and for the summer quarter, prior to Wednesday, June 12, 1928.

Registration is complete when the election blank has been signed by all required registering officers and the student, when all required fees have been paid, and when all blanks have been left in the registrar's office or other place designated by the registrar. Registration by proxy is not permitted.

*Late Registration.*—The dates noted above are officially set apart for registration and enrollment. All students are expected to complete their registration (including payment of all required fees) in those days. Students failing to do this will be charged an additional fee of \$2 for the first day's delay, and a further cumulative fee of \$1 for each day thereafter during the first week following the final official registration date. After the first week following the final official registration date, no student will be permitted to register except by special action of the Board of Deans. (If a student has been granted a leave of absence or has withdrawn in good standing during a preceding quarter he may be given the privilege of late enrollment to complete unfinished courses, with the consent of the instructors concerned.)

*Changes in Registration.*—A fee of \$1 is charged for each change made by a student in his election of studies after registration is completed, unless such change is made on the initiative of University authorities.

Rule 2. Unsatisfied prerequisites take precedence over other subjects. Any student having any unsatisfied entrance prerequisite must so register for work that the deficiency will be removed by the end of his fourth quarter of residence. In special cases, permission to postpone the removal may be granted by the dean of the proper college; provided such permission be filed and entered on the student's record card before the grades for the student's third quarter are in. The registrar is authorized to refuse registration to any student not complying with this rule. Appeal from the registrar's decision may be taken to the Board of Deans.

Rule 3. Except with the consent of his dean:

(a) No student shall be registered for less than 12 hours of work:

(b) No student shall be registered for more than 16 hours of work (exclusive of drill or physical training), or the number for the respective quarters in the prescribed curricula.

Rule 4. With the consent of his dean, a junior or senior whose previous scholastic record has been exceptionally good, may be registered for a maximum of 20 hours (exclusive of drill or physical training).

Rule 5. No student may be registered for more than 20 hours (exclusive of drill or physical training.)

Rule 6. Work taken to remove entrance deficiencies shall count as a part of the schedule allowed.

Rule 7. A student who is obliged to do outside work must enter on his registration blank a statement of the nature of the work and the number of hours per week so used. In considering petitions for reinstatement the Board of Deans shall take no cognizance of outside work if it has not been noted on the student's registration blank.

Rule 8. A student who registers for an elective course must ultimately complete the course, unless relieved of the necessity by his dean. A student properly withdrawn and given a "W" shall not be affected by this rule.

Rule 9. No change in registration involving the entrance into a new course shall be permitted after the two-week period following the beginning of instruction.

#### MEDICAL EXAMINATIONS

All students entering the University for the first time are required to pass a medical examination as a part of their registration requirements. Men will report to the infirmary and women to the gymnasium on the date and hour designated when registering. This appointment takes precedence over all others scheduled for that hour. Students failing to keep the appointment will not be allowed to reregister for another quarter until the examination is passed on the day before the final registration date for that quarter.

#### EXPENSES

*Tuition and Fees.*—By authority of the special legislative act of the session of 1921, the following tuitions and fees will be collected:

#### GENERAL TUITION FEES

*Resident Tuition.*—Fifteen dollars (\$15) general tuition per regular academic quarter from each student who has been domiciled within the

state of Washington or the territory of Alaska for a period of one year prior to the date of registration.

**Non-Resident Tuition.**—Fifty dollars (\$50) tuition per regular academic quarter from each student who has not been domiciled in the state of Washington or the territory of Alaska for the period of one year prior to registration.

Prospective students from outside the State of Washington should bear in mind certain fundamental legal principles governing this question of resident or non-resident tuition.

(a) The legal word "domicile" and the word "residence" are not equivalent terms; domicile requires more than mere residence.

(b) No one can acquire a domicile merely by residence in the state of Washington when such residence is for the purpose of attending an institution of learning.

(c) The domicile of a minor is that of his father; in the event of the death of his father, that of his mother; the event of the death of both parents, that of the last deceased parent, until changed by a duly appointed legal guardian.

Every non-resident student will be expected to file a statement of his residence status when first applying for entrance to the University. Blanks for this purpose will be supplied by the University and must be filled out and returned before registration can be completed.

**Associated Students Fee.**—An associated student membership fee of ten dollars (\$10) for the year (exclusive of summer quarter) is collected of all regularly enrolled undergraduate students upon registration. This fee is optional with graduate students. The A. S. U. W. fee for the summer session registration is \$1.00.

**Exemptions.**—All honorably discharged service men or women who served in the military or naval service of the United States during the late world war; and all honorably discharged service men who served in the military or naval services of any of the governments associated with the United States during the said war, provided they were citizens of the United States at the time of their enlistment and who are again citizens at the time of their registration in the University may on application and showing that such fee will be an individual expense be exempted from the payment of general tuition fee provided they have been domiciled in the state of Washington or territory of Alaska for the period of one year prior to the date of registration. If any such service men have not been domiciled in the state of Washington or territory of Alaska for one year prior to registration they are exempt up to twenty-five dollars (\$25) per quarter. This exemption does not apply to the summer quarter.

Deserving students (domiciled in the state of Washington or the territory of Alaska) who, after a quarter in residence have shown a marked capacity for the work done by them in school, in lieu of paying the general tuition fee, above provided for, may give their promissory notes with interest at the rate of four per cent per annum. All applications for this concession must be presented at the comptroller's office.

#### PAYMENT OF FEES

Fees for all undergraduates must be paid, either by mail or in person, during a period of two weeks before the first day of any quarter. Failure to observe this requirement will automatically cancel the student's registration and necessitate re-registering by petition to the registrar's office, and paying a late registration fee of \$2 for the first day's delay and \$1 per day additional thereafter up to a maximum of \$7.

**Refunding Fees.**—Tuition and other general fees are not returnable, except in case of sickness or causes entirely beyond the control of the stu-

dent. No portion of the returnable fees shall be returned for voluntary or enforced withdrawal after thirty (30) days from the first day of the quarter. In no case shall more than one-half of the fees be refunded. Students withdrawing under discipline forfeit all rights to the return of any portion of the fee.

#### OTHER CHARGES

*Auditor's Tuition Fee.*—A fee of \$10 a quarter for each quarter except the summer quarter will be charged all persons enrolling as auditors. For auditors in the summer the regular summer quarter fee applies.

*Part Time Tuition Fee.*—A fee of \$10 a quarter will be charged persons registering for partial courses not exceeding six (6) credits.

*Library Fee.*—All students, other than law majors, are required to pay a quarterly fee of one dollar (\$1) for general library book repairs and replacements.

*Law Library Fee.*—Ten dollars (\$10) per quarter special law library fee from each student registering in law will be charged in addition to the general tuition fee. Students other than majors in law taking work in the School of Law will pay at the rate of one dollar (\$1) for each credit hour of law work elected up to a maximum of \$10 per quarter.

*Short Course Tuition.*—Twenty dollars (\$20) from each student registering in any short course—mining, forestry, fisheries, etc.

*Summer Quarter Tuition.*—Twenty dollars (\$20) from each student registering in the summer, for the quarter or any part thereof. In addition to this tuition one dollar is charged for A. S. U. W. fee.

*Marine Biological Station Tuition.*—Twenty-five dollars (\$25), of which twenty dollars (\$20) is for tuition and five dollars (\$5) for a general laboratory fee.

*Military Uniform Deposits.*—Each student who is held for military drill either in the war or naval corps is required to make a deposit before he draws a uniform. In the case of the army corps the deposit is \$12, while in the navy, it is \$25. In every case \$2. is retained as a breakage and loss charge, the rest of the deposit being refunded upon proper clearance from military headquarters. This deposit in no way entitles the student to ownership in any part of the military equipment or clothing issued.

*Special Examinations.*—A fee of \$1 per course number will be charged for all examinations outside the regular schedule.

*Late Registration.*—A penalty of \$2 is imposed upon all undergraduates for the first day's delay in registering and \$1 per day additional thereafter up to the close of the week during which registration is permitted.

*Changes of Registration.*—A fee of \$1 will be charged for changes in election, including additions or withdrawals of individual courses after completion of registration.

*Diploma Fee.*—Each graduate receiving a baccalaureate or higher degree, diploma in pharmacy, or a teacher's diploma is required to pay a diploma fee of five dollars (\$5). The fee for other professional certificates is \$1. *The teacher's diploma fee does not include the legal registration fee*



of \$1 paid to the county school superintendent who first registers a teacher's diploma.

**Transcript Fee.**—One transcript of record is furnished the student without charge; a fee of \$.50 is charged for each additional transcript.

**Grade Book Fee.**—One grade book is furnished the student without charge, a fee of \$.50 is charged for each additional grade book.

**Health Service Fee.**—A fee of \$1 per year or any quarter thereof will be collected by the university for the maintenance of the health service.

#### LABORATORY FEES AND DEPOSITS

The following laboratory fees and deposits will be collected quarterly during the ensuing year 1927-1928. With few exceptions, these fees are not returnable in whole or in part, and in no case can any rebate be allowed after 30 days from the first day of the quarter: (Fees and deposits listed below apply individually to each numbered course as segregated under the various subjects.)

Anatomy—101, 102, 103, 104, 105, 106, 107, 108.....	\$ 3.00
Architecture—54, 55, 56, 104, 105, 106, 154, 155, 156.....	5.00
112, 113, 114.....	1.00
157, 158, 159, (For the year).....	7.50
Astronomy—53 .....	1.00
Bacteriology-Pathology—103 .....	1.00
101, 102 .....	4.00
104, 105, 106, 110, 111, 112.....	5.00
Botany—1, 2, 3, 4, 11, 12, 13, 14, 53, 101, 111, 140, 141, 142, 180,	
181, 182, 200, 220, 233, 247, 250, 251, 271, 272, 273, 279.....	2.00
105, 106, 107, 119, 143, 144, 145, 280.....	3.00
Ceramics—110, .....	5.00
121, 122, 123.....	10.00
Chemistry—All courses except 52, 173, 190, 191, 200, 204, 221, 222,	
223, 231, 232, 233, 249.....	6.50
176, 177, 178, 210, 211, 212, 230, 250—\$1.00 per credit hour.	
Breakage ticket .....	5.00
Civil Engineering—4, 22, 27, 55, 56, 113, 114, 126, 142, 167.....	2.00
Dramatic Art—101, 102, 103.....	1.00
104, 105, 106.....	2.00
Economics and Business Administration—All courses except those	
listed below .....	.50
15, 16 Typewriting, and 18, 19 Shorthand.....	10.00
81, 82, 83.....	5.00
Education—All courses except those listed below.....	.50
160D, 160DD, 160Z.....	1.50
196, 197, 198.....	2.00
150 .....	3.00
285, 286, 287.....	2.50
Electrical Engineering—132, 141, 181, 183, 196, 198.....	2.00
102, 110, 112, 122, 162, 164.....	4.00

Engineering Shops—115, 120.....	1.00
52, 54, 55, 56, 105, 106, 107.....	2.00
53 .....	3.00
Fisheries—53, 54, 60, 101, 102, 103, 104, 105, 112, 140.....	3.00
108, 110, 111, 130, 154.....	4.00
150, 151, 152, 190, 201, 202, 203—\$1.00 per credit hour.	
Forestry—1, 5, 51, 52, 53, 57b, 58, 101, 104, 105, 152, 190.....	2.00
160, 161, 162, 187, 188, 189, 196, 213, 214, 215.....	3.00
General Engineering—1, 7, 21.....	2.00
Geology—1a, 1b, 10, 11, 112.....	1.00
2, 21, 105, 120, 123, 124, 131, 132.....	2.00
Home Economics—8, 43, 101, 102, 109, 190.....	2.00
25, 111, 112, 113, 121, 127, 130, 131, 133, 135, 143, 183, 188.....	3.00
191 .....	4.00
4, 5, 9, 105, 106, 107, 108, 116, 120.....	6.00
207, 208, 209, \$1.00 per credit hour.	
204, 205, 206, \$2.00 per credit hour.	
Journalism—1, 61, 90, 91, 92, 105, 109, 128, 135, 145, 160.....	1.00
51, 101, 115, 120, 130, 131, 132, 136, 138, 140, 170, 171, 172, 173, 174, 175 .....	2.00
(Maximum fee for any one student \$2.50 per quarter)	
Library Science—Text book fee—One or more courses per quarter....	1.50
Mathematics—Statistics 13 .....	1.00
Mechanical Engineering—83, 151, 152, 153, 167.....	2.00
Metallurgy—103, 163.....	5.00
102 .....	10.00
153, 160 .....	12.00
101 .....	20.00
Mining—101, 151, 191, 192, 193, 194.....	5.00
152, 176 .....	10.00
Music—10, 11 .....	1.00
18, 19, 20, 68, 69, 70, 118, 119, 120, 168, 169, 170 as listed below:	
Allen, Oliver, Canfield (One lesson a week).....	18.00
Venino, Van Ogle, Mabon, Bogardus, Lawrence, Rosen, Lynch, Wood, Kirchner (One lesson a week).....	25.00
Glen, (One lesson a week).....	27.00
Adams (One lesson a week).....	20.00
Piano practice room—An hour a day for a quarter.....	3.00
Key deposit .....	1.00
Organ—An hour a day for a quarter.....	12.50
Key deposit .....	1.00
Nursing—5 .....	1.00
Painting, Sculpture and Design—5, 6, 7, 9, 10, 11, 56, 57, 58, 65, 66, 67, 151, 152, 163, 164, 165, 166, 167, 168, 169, 170, 171, 244, 263, 264, 265.....	1.00
53, 54, 55, 103, 104, 130, 157.....	2.00
116 .....	.50

72, 73, 74, 107, 108, 109, 122, 123, 124, 132, 133, 134, 160, 161, 162, 175, 176, 177, 260, 261, 262, 207, 208, 209.....	3.00
158, 159 .....	5.00
Pharmacy—15 .....	1.00
9, 10, 11.....	3.00
7 .....	4.50
1, 2, 3, 5, 6, 113, 114, 115, 195, 196, 197.....	6.50
191, 192, 193, 201, 202, 203—\$1.00 per credit hour.	
Physical Education—All P.E. courses, or combination of P.E. courses other than those listed below.....	1.00
95, (Swimming) .....	1.00
87, 88 (Golf).....	3.50
94 .....	6.00
All other P.E. courses or combination of P.E. courses combined with 87, 88 or 94, 95—Special fee, plus the regular fee of \$1.00.	
Physics—1, 2, 3, 4, 5, 6, 50, 51, 89, 90, 97, 98, 99, 101, 105, 160, 205, 206 .....	2.00
114 .....	4.00
54, 115 .....	5.00
Psychology—1 .....	1.00
Sociology—1, 56, 62, 158.....	1.50
Zoology and Physiology—1, 2, 3, 4, 5, 7, 101, 102, 106, 107, 108, 111, 121, 155, 156, 157.....	2.00
115 .....	2.50
20, 53, 54, 55, 127, 128.....	3.50
151, 152, 153 .....	4.00
201, 202, 203—\$ .50 per credit hour.	

## BOARD AND ROOM

The University dormitories consist of Lewis Hall and Clark Hall for women and Lander Hall and Terry Hall for men. During the ensuing year \$32 a month will be charged for room and board at these residence halls. The rooms are furnished with necessary articles of plain furniture, but the student is expected to supply his own bed linen, bedding, towels, and rugs.

An amount equal to the first month's account is paid in advance and left on deposit to be applied on the board and room account for the last month of the school year.

All remittances should be made in favor of the University of Washington and addressed to the Comptroller of the University of Washington, Seattle.

The University also operates The Commons on the campus, where students so desiring may secure the best food at reasonable rates, cafeteria style.

Outside the campus, board and room may be secured at rates ranging from \$35 to \$40 a month.

## UNIVERSITY HEALTH SERVICE

The University maintains a health service which functions primarily in guarding against contagious and infectious diseases. Medical advice and emergency office treatment are available during school hours at the health service building; this building contains medical offices for both men and women, nurses' offices and quarters, and a forty-bed infirmary. The Uni-

versity provides a corps of two physicians, one man and one woman, and several nurses who are at the service of the students. As a result of the entrance medical examinations, the students are classified; those found below par are followed up in an effort to apply remedial measures. Close cooperation is maintained with the family physician when possible, rather than in any way supplanting or taking the place of the private doctor.

If a student is taken ill and is unable to call at the medical office he should notify the infirmary clerk before the first class is missed, and the public health nurse will call upon the patient. Disposition of the case is determined on report of this visit. If the patient is a contagious suspect or in unsatisfactory quarters, he is taken to the infirmary and cared for free of cost, except for board at the rate of \$1.50 per day. Scarlet fever and smallpox patients are sent to Firlands Sanitarium and cared for by the city. A local physician may be called in at any time at the patient's expense while he is in the infirmary.

Students absent from classes on account of sickness are not readmitted until they secure cards from the health service office. Record is thus kept of all illness and used as a guide for health supervision. (See Rule 22, page 66.

## DEGREES

It is not the policy of the University to grant honorary degrees.

### GENERAL RULES

Rule 9. The work of the senior year (a minimum of 36 credits earned in three quarters) must be done in residence.

Rule 10. Each senior shall, before registering for the first quarter of his senior year file with the registrar a written application for his degree. Each application shall be checked by the Committee on Graduation at least six months before the date at which the student expects to be graduated and notice shall be sent to the student by the registrar of the acceptance or rejection of his application. The accepted list shall be submitted at the last regular meeting of the faculty for the quarter in which the checking is done and, if approved by the faculty, with or without modification, shall constitute the list of candidates to be recommended for graduation upon the completion of the work requisite for their respective degrees. No change shall be made in this list unless ordered by a two-thirds vote of the members of the faculty present.

*Note.*—Applicants who are late in filing their applications cannot be assured of recommendation to the faculty, or of consideration of petitions for modification of requirements.

Rule 11. All students shall have the option of being held to the entrance and graduation requirements of the catalogue under which they enter, or those of the catalogue under which they expect to graduate. All responsibility for fulfilling the requirements for graduation from the various schools and colleges of the University shall be thrown upon the student concerned.

Rule 12. The degrees of A.B. and A.M., B.S. and M.S., or two different bachelor's degrees, may be granted at the same time in all cases in which a minimum of fifteen quarters shall have been occupied in the work for two degrees.

Rule 13. In determining the fitness of a candidate for a degree, his attitude toward his financial obligations shall be taken into consideration.

Rule 14. Theses shall be typewritten on sheets of ledgerweight

paper eight and one-half by eleven inches in size, and shall be bound in cloth, with the subject, the name of the author and the date of the presentation on the front cover, and the name and date on the back in gilt letters. A uniform and suitable margin shall be left on the type-written pages.

#### DEGREES WITH HONORS

A degree with honors may be conferred on a student who is declared worthy of unusual distinction on recommendation of the honors committee and a vote of the faculty. Early in May each head of a department brings to the attention of the committee on honors such seniors majoring in his department as he thinks eligible for honors. Honors are not awarded to any student in more than one subject.

#### NORMAL DIPLOMAS

The University is authorized by law to issue teachers' diplomas, valid in all public high schools of the state. Candidates for these diplomas should register in the department of education as early as possible after the beginning of the sophomore year, and should consult with the department from time to time as to his work for the diploma and his preparation for teaching. Fuller information may be found in the department of education.

#### FELLOWSHIPS, SCHOLARSHIPS, PRIZES

##### FELLOWSHIPS

*Loretta Denny Fellowships.*—Three fellowships, of \$500 each, open to graduate students in any department of the University. Awarded by the faculty on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Applications for these fellowships should be made on blanks supplied by the dean of the Graduate School, and must be in his hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

*Arthur A. Denny Fellowships.*—Six fellowships of \$500 each, open to graduate students in the departments of civil engineering, education, English, history, mining engineering, and pharmacy, respectively. Awarded by the departments concerned on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Applicants must be residents of the state of Washington. Applications for these fellowships should be made to the heads of the departments concerned on blanks supplied by the dean of the Graduate School, and must be in their hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

*National Research Fellowships.*—Fellowships in physics and chemistry, offered by the National Research Council, are open to promising research students, who have already taken the doctor's degree or have equivalent qualifications. A successful candidate can pursue his research at any university or research institute chosen by him and which is acceptable to the appointing board. The salary will ordinarily be \$1800 for the first year. Fellows are eligible for successive reappointments ordinarily with increase in salary. For details address the dean of the Graduate School or the heads of the departments.

*University Honorary Fellowships.*—Three honorary fellowships have been established by the University. These, like the Loretta Denny fellowships, are open to students in any department of the University. They carry no stipend, and are designed to furnish recognition of exceptional scholastic

excellence in the case of graduate students who are not eligible for the Loretta Denny or the Arthur A. Denny fellowships, either because they do not need financial assistance or because they are not giving their entire time to their work in the University.

*Research Fellowships.*—The College of Mines offers five fellowships for research in coal and clay in cooperative work with U.S. Bureau of Mines. The fellowships are open to graduates of universities and technical colleges who are properly qualified to undertake research investigations. The value of each fellowship is \$720 to the holder, for the twelve months beginning July 1. Fellowship holders pay tuition and laboratory fees, but are reimbursed for the amounts so expended; they register as graduate students and become candidates for the degree of master of science in the proper subject, unless an equivalent degree has previously been earned.

Each applicant should send a copy of his collegiate record from the registrar of the college where he has graduated, or will graduate in June. He should also send a photograph and a detailed statement of his professional experience, if any, and give the names and addresses of at least three persons who are familiar with his character, training and ability. Applications should be submitted if possible by April 20 in order to allow ample time for consideration, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

*Du Pont Fellowship.*—Through its chemical department, Du Pont de Nemours & Co. offer an annual fellowship of \$750 in chemistry, known as the "Du Pont Fellowship," open to a senior student or graduate student in chemistry or chemical engineering.

*The Bon Marche Industrial Fellowship.*—The Bon Marche of Seattle offers an annual fellowship of \$600 to a graduate student in home economics for research work in textiles. The recipient of this fellowship is required to give one-fourth of her time for eleven months to the testing of textiles for the Bon Marche.

*The Effie I. Raitt Fellowship.*—The Effie I. Raitt fellowship of \$600 is offered annually to a graduate student in home economics for research work in nutrition.

*The Mars Fellowship.*—A research fellowship in astronomy, given by the late Dr. Percival Lowell of the Lowell Observatory, Flagstaff, Arizona, carrying a stipend of \$600, may be awarded annually.

*Columbia University Fellowship.*—Columbia University offers each year a fellowship of \$250, open to students in mining, engineering and chemistry.

*University Teaching Fellowships.*—The University each year provides a number of teaching fellowships in various departments. The graduate student receiving such a fellowship divides his time equally between his studies and assistance in the teaching work of the departments in which he is enrolled. These fellowships range from \$540 to \$720.

#### SCHOLARSHIPS

*Graduate Scholarships.*—A number of graduate scholarships are open to students who perform service as laboratory assistants, assistant in charge of quiz sections, or readers. The remuneration is proportioned to the service, and ranges from \$180 to \$360.

*Isabella Austin Scholarship.*—The Isabella Austin scholarship of \$100 for freshman women is awarded annually at the end of the fall quarter, to a young woman of promise, on the basis of scholarship and financial need.

*The P.E.O. Scholarship.*—Chapter A.C. of P.E.O. offers an award of \$100 annually to a young woman entering the sophomore class, this award being made on the basis of scholarship, character and need.

*The Gamma Phi Beta Scholarship.*—The Seattle Alumnae of Gamma Phi Beta offer an annual scholarship of \$100 to that woman among the English major students who most nearly fulfills the following conditions: partial or complete financial self-dependence, high scholarship, strength of personality, wholesomeness of influence and promise.

*The Frederick and Nelson Scholarships.*—Frederick and Nelson of Seattle offers two scholarships, one to a boy and one to a girl, each of which carries \$250 a year for the freshman and sophomore years. These scholarships are awarded on the basis of scholarship, personality, and business acumen.

*The Beta Gamma Sigma Scholarship.*—Beta Gamma Sigma offers a scholarship of \$75 in the College of Business Administration, to be awarded to the self-supporting student with the highest grades at the end of the fifth quarter.

*The A. F. Venino Scholarship.*—Professor A. F. Venino offers an annual scholarship to the candidate showing the greatest proficiency and promise in piano playing. This scholarship carries free tuition for one weekly lesson throughout the autumn, winter and spring quarters. All candidates must submit their application in writing to Dean Glen before September 1. The competitive examination preliminary to the award is held in room 110, Meany hall, at 2 p.m. of the Saturday before registration day.

*Beecher Kiefer Memorial Scholarship.*—This scholarship is awarded annually to the most talented man student of violin. This award is subject to competition before a committee from the department of music. Applications should be made before June 1.

*Mu Phi Epsilon Scholarship.*—Mu Phi Epsilon, national honorary musical sorority offers to a woman student a scholarship of one lesson a week for a school year, in either voice, piano, violin, cello or organ. (See College of Fine Arts.)

*The Paul Karshner Memorial Scholarships.*—Scholarships of \$100 each, given by W. M. Karshner, M.D. and Ella H. Karshner, and awarded to a boy and to a girl who are graduates of the Puyallup high school.

*The Phi Mu Gamma Scholarship.*—Zeta Chapter of Phi Mu Gamma offers a scholarship of \$100 annually to that man or woman in the department of dramatic art who most nearly fulfills the following conditions: high scholarship at the end of the junior year, strength of personality, activity in campus affairs, and financial need.

#### SENIOR SCHOLARS

Rule 15. (a) Students of the Colleges of Liberal Arts, Science, Fine Arts, Business Administration, and of the School of Education and Library School who are intellectually mature, who have 132 or more credits, and who have shown exceptional ability and capacity for independent work in some group of studies, shall be eligible for senior scholarships. Senior scholars shall be elected by the faculty, upon recommendation of the Committee on Honors, in the June preceding their senior year and their election shall be announced at Commencement and published in the catalogue. Ordinarily the number of scholars shall not exceed ten per cent of the class. Students of the above mentioned colleges, who, in the course of their senior year, show fitness therefor may be recommended and elected to senior scholarships.

(b) The work of the senior scholars shall be in not less than two nor more than four, allied subjects, which shall be so correlated as to bear upon some common field, the aim of the scholarships being breadth of knowledge and culture, rather than minute research. Except in the case of unfinished prescribed work or of courses in which the major professor deems attendance essential, scholars are to be relieved from attendance at regular lectures and recitations and their work shall be done under the personal direction of the instructors with whom they are registered. The instructors in charge shall submit senior scholars at the end of the year to searching final examinations by which the grade of honor, if any, to be recommended to the Committee on Honors, shall be determined.

(c) Senior scholars shall be granted the library privileges accorded to members of the faculty and such monetary awards, if any, as may be available.

#### PRIZES

*The Judge Alfred Battle Prize in Public Speaking and Debate.*—Judge Alfred Battle offers an annual cash prize of \$50 to the Washington debating team chosen to meet representative debaters from the University of Oregon.

*Judge Kenneth Mackintosh Prize in Debate.*—Judge Kenneth Mackintosh offers an annual prize of \$75 to the University of Washington debating team, consisting of two men, who compete with Leland Stanford Junior University in debate.

*Fraternal Order of Eagles Prize.*—Seattle Aerie No. 1 of the Fraternal Order of Eagles offers an annual prize of \$100 for the best essay or oration by a student of the University of Washington. The subject for this year is "Fraternity."

*Philo Sherman Bennett Prize.*—The Philo Sherman Bennett prize of \$24 annually is "for the best essay discussing the principles of free government."

*The Carkeek Prize.*—Mr. Vivian Carkeek of Seattle offers an annual cash prize of \$25 for the best student contribution to the *Washington Law Review* by a member of the senior class on a point of Washington law, or any point of peculiar interest to Washington attorneys.

*The Jaggard Prize.*—In memory of the Hon. Edwin A. Jaggard, late justice of the supreme court of Minnesota, Miss Anna Wright Jaggard offers an annual cash prize of \$50 for the best essay on a topic connected with courses in history of law or jurisprudence.

*The Dan Cloud Memorial Prize.*—The Sigma Delta Chi fraternity offers a prize of \$100 to be awarded to the student who writes the ten best editorials in *The University of Washington Daily* during the current year.

*The Charles H. Bebb Prize in Architecture.*—Mr. Charles H. Bebb offers an annual prize of books to the value of \$100 for the best design in some problem of architecture.

*The Gladding McBean Prize.*—The Gladding McBean Company offers a prize of \$50 in the department of architecture to the sophomore, junior or senior student who submits the best design in the terra cotta treatment.

*The American Institute of Architects Prize.*—The American Institute of Architects offers annually a silver medal and a book to the graduating senior with the most distinguished record in design for the entire course.

*The Frank Buty Prize.*—The Frank Buty prize of \$20 is offered an-



nually for the best essay on some subject related to the Italian Language and Literature.

*The Italian Commercial Club Prize.*—The Italian Commercial Club of Seattle offers a gold medal to the student in the University who attains distinction in Italian.

*The A. Merlino Prize.*—The A. Merlino Prize of \$25 is offered annually to the student in the College of Science who writes the best essay on "An Italian Scientific Advancement During the Year."

*Military Science Prize.*—The members of the Non-commissioned Officers' Training School have established a fund of \$400, the income of which shall be utilized as a prize to be awarded to the student completing his junior year with the highest honors in military science.

*The Charles Lathrop Pack Prize.*—Charles Lathrop Pack, president of the American Tree Association, offers an annual prize of \$50 for the best essay by a student majoring in forestry. The subject shall be chosen with reference to interesting the general public in forestry matters.

*Northern Clay Company Prize.*—The Northern Clay Company offers a prize of \$50 for an article illustrating the best color in a building.

*The Whitney, Carter and Company Prizes.*—Whitney, Carter and Company offers three prizes, of \$100, \$50 and \$25 respectively, to undergraduate students in the College of Business Administration for the best essays on selected topics in business finance.

*The Omicron Nu Prize.*—Omicron Nu, national Home Economics honor society, offers an annual cash prize to the freshman student in Home Economics who attains the highest scholastic standing.

*The Lehn and Fink Medal.*—Lehn and Fink, of New York, offers a gold medal each year to the student in the graduating class who prepares the best essay on some scientific topic of pharmaceutical importance.

#### STUDENT LOAN FUNDS

Several loan funds are available to assist students, both men and women through financial emergencies. See the comptroller, dean of men, or the dean of women for full information.

#### STUDENT WELFARE AND VOCATIONAL GUIDANCE

##### DEAN OF MEN

The dean of men is concerned with the welfare of the men students of the University. He confers with them on all questions affecting their personal or group interests. Among other duties he advises with students failing in scholastic work and arranges their schedules.

Help is given students seeking part time employment. General housing conditions are under direction of the Faculty Committee on Student Welfare. A list of approved boarding places for men, however, is kept in the dean's office. The dean of men is chairman of the faculty committee on Student Welfare and the committee on Student Loans. As a representative of the Institute of International Education the dean of men is interested in the problems of foreign students.

## DEAN OF WOMEN

The dean of women is always ready to help or advise any woman student who may need assistance. She supplies lists of approved boarding and lodging places, supervises all houses of residence, corresponds with parents or guardians who desire to make inquiry concerning their daughters or wards, gives advice regarding courses of study, offers vocational information of a general nature, handles loan funds, and acts as counselor to the officers of organizations for women.

## STUDENT EMPLOYMENT

Many students who find it necessary to support themselves in part or wholly at the University have been enabled to do so through an employment bureau for men conducted by the Y. M. C. A. and by aid of the dean of men. The dean of women renders a similar service for women.

It is necessary to advise caution in entering the University without funds. The University cannot be responsible for finding work for students. During periods of business depression it is especially difficult to obtain part-time work. It is not advisable that anyone should enroll unless provided with sufficient funds to maintain himself for a quarter. A suggested amount for this purpose is \$200. Students expecting to earn a portion of their support should not register for a full schedule.

## BUREAU OF APPOINTMENTS

The University maintains a Bureau of Appointments to assist students in obtaining positions for which they are fitted in educational, commercial and industrial fields. Students intending to teach or graduates already engaged in teaching, who are ready for promotion may take advantage of this privilege. Correspondence is invited from universities, normal schools, boards of education, superintendents and principals of schools in need of candidates, and other employers. No commission is charged for the services of the bureau.

## ASSOCIATIONS AND CLUBS

*Alumni Association.*—Everyone receiving a degree from the University of Washington or who has attended the University for two semesters or three quarters is a member of the Alumni Association. The association is governed by the alumni council, consisting of a representative from each of the local alumni organizations, which meets annually. It determines the basic policies of the association which are carried out by the executive committee. The executive committee consists of the president, two vice-presidents, the secretary and a treasurer who are elected each year by the dues paying members of the association; and five members elected by the alumni council for a three-year term; together with one representative each from the board of regents, faculty, and associated students. The president for the previous year is also an ex-officio member. The annual dues are \$3, and include a subscription to the official publication, *The Washington Alumnus*.

*Associated Students.*—The Associated Students of the University of Washington (A.S.U.W.) is the central organization which conducts the activities of the student body. Membership is required of all regularly enrolled undergraduate students. The annual fee is \$10. (\$1 for summer quarter.)

This fee gives each student a membership in the corporation, including a free subscription to the *University of Washington Daily* and free or reduced admission to such football basketball, baseball games, tennis, track and wrestling meets, crew regattas, debates, oratorical contests, musical concerts as may be designated by the Board of Control.

The management of the Associated Students is vested in an annually elected Board of Control, composed of nine students, three faculty and three alumni. The Board meets bi-weekly and has all the usual powers vested in the directorate of any corporation. The Board employs a graduate manager as its executive agent. He is assisted by student managers, and in 1926-1927 the business transacted amounted to \$660,000. The office of the graduate manager is in room 101 Education Hall. The department has twenty-five employees.

The Board employs a manager of the A.S.U.W. bookstore. In 1926 the sales amounted to \$290,000.

*Christian Associations.*—The University of Washington Young Men's Christian Association is a Christian service organization, designed to be of service to all men students and members of the faculty. It assists men students in finding acceptable homes while at college and part-time employment when needed. Students and faculty are invited to become members of the association and to assist in its service features. In co-operation with the campus Young Women's Christian Association the association publishes the "W" Book, a hand-book for students.

Eagleson Hall, home of the association, at the entrance to the campus at East Forty-second street, is designed for the use of all men of the University whether members of the organization, or not. A small fee is requested for the use of the gymnasium and shower baths.

The Young Women's Christian Association on the campus has a membership of 1,000 women and maintains an active organization with headquarters at 205 Home Economics Hall.

The purpose of the organization is to create and promote a spirit of Christian friendliness among women students; to afford opportunities for development of Christian leadership through cabinet and committee work; and to offer channels for self-expression through various forms of service work, both on and off the campus.

A full-time general secretary is employed whose services are at the disposal of every University woman.

*Department Clubs.*—The following clubs are connected with the work of different University departments: American Chemical Society, American Institute of Civil Engineers, American Institute of Electrical Engineers, American Society of Mechanical Engineers, American Institute of Mining and Metallurgical Engineers, Amonii Socii, Art Club, Business Administration Council, Chemical Club, Circolo Italiano Universitario, Classical Club, Deutscher Verein, Education Club, English Club, Engineers Council, Fisheries Club, French Club, Forestry Club, Graduate Club, Home Economics Club, Law Association, Maritime Commerce Club, Mathematical Journal and Research, Mines Society, Nurses' Club, Officers' Club, Pharmacy Club, Philological Club, Political Science Club, Physical Education Club, Pre-Medic Club, Scandinavian Club, Spanish Club, Washington Law Association, Women's Athletic Association, Zoology Club.

*Religious and Social.*—Chinese Club, Christian Science Society, Cosmopolitan Club, Daughters of the American Revolution, Filipino Club, Japanese Club, Mountaineers Club, Newman Club, Menorah Society, Patrons' Association, Pilgrim Club, Service Club of Washington, Sororia, Thalian Dramatic Association, Tillicums, Young Men's Christian Association, Wesley Club, Westminster Club, Women's Ex-Service Club, Women's Federation of the University of Washington, Young Women's Christian Association.

*Debating Societies.*—There are four debating and literary societies in the University: Stevens, Badger, Athena and Sacajawea. The first two are

for men, the last two for women. Membership in the clubs is limited so that frequent practice may be afforded.

The Pacific Coast Triangular Debating League, consisting of the Universities of Washington, Oregon, and Stanford, holds an annual triangular debate. Each institution has two teams, representing the affirmative and negative of the question under discussion.

The men of the University also have a triangular debate league with Whitman College and the University of Idaho.

The women of the University have a dual league with the University of Oregon and a triangular league with Whitman College and the University of Idaho.

*Musical Organizations.*—The musical organizations consist of the University Choral Society, Men's Glee Club, Women's Ensemble, Orchestra and Band.

*Activity Honor Societies.*—Fir Tree, Oval Club, Mortar Board. Purple Shield

*Scholastic Honor Societies.*—Phi Beta Kappa, Sigma Xi, Tau Beta Pi, Beta Gamma Sigma, Order of the Coif, Gamma Epsilon Pi.

*Professional Fraternities.*—Alpha Delta Sigma, Alpha Kappa Delta, Alpha Kappa Psi, Atelier, Attic and Easel, Beta Alpha Psi, Delta Theta Phi, Iota Sigma Pi, Kappa Psi, Lambda Rho, Mu Phi Epsilon, Omicron Nu, Pan Xenia, Phi Alpha Delta, Phi Delta Delta, Phi Delta Phi, Phi Delta Kappa, Phi Lambda Upsilon, Phi Mu Alpha, Phi Mu Gamma, Phi Lambda Theta, Pi Mu Chi, Scabbard and Blade, Sigma Delta Chi, Sigma Epsilon, Sigma Upsilon, Tau Sigma Delta, Theta Sigma Phi, Xi Sigma Pi.

*Activity Societies.*—Associated University Players, Axe and Grindstone, Big W Club, Women's Federation Players, Delta Phi, Hammer and Coffin, Knights of the Hook, Minor W Club, Girls' Rifle Club, Radio Club, Red Domino, Spurs, Tau Kappa Alpha, Personnel Officers' Society, University of Washington Band, Kappa Kappa Psi, Varsity Boat Club, Women's Athletic Association, Women's W Club.

*Fraternities.*—Acacia, Alpha Delta Phi, Alpha Sigma Phi, Alpha Tau Omega, Beta Kappa, Beta Theta Pi, Chi Phi, Chi Psi, Delta Chi, Delta Kappa Epsilon, Delta Sigma Phi, Delta Psi Delta, Delta Tau Delta, Delta Upsilon, Kappa Sigma, Lambda Chi Alpha, Phi Delta Theta, Phi Gamma Delta, Phi Kappa Psi, Phi Kappa Sigma, Phi Sigma Kappa, Pi Kappa Alpha, Pi Kappa Phi, Psi Upsilon, Sigma Alpha Epsilon, Sigma Chi, Sigma Nu, Sigma Phi Epsilon, Sigma Pi, Sigma Tau Epsilon, Tau Kappa Epsilon, Tau Phi Delta, Theta Delta Chi, Theta Kappa Theta, Theta Xi, Theta Chi, Zeta Beta Tau, Zeta Psi.

*Sororities.*—Alpha Chi Omega, Alpha Delta Pi, Alpha Gamma Delta, Alpha Delta Theta, Alpha Omicron Pi, Alpha Phi, Alpha Xi Delta, Beta Phi Alpha, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Omicron Chi, Delta Zeta, Gamma Phi Beta, Kappa Alpha Theta, Kappa Delta, Kappa Kappa Gamma, Phi Mu, Pi Beta Phi, Phi Omega Pi, Pi Sigma Gamma, Sigma Kappa, Zeta Tau Alpha.

*Philological Association.*—The Philological Association was organized to encourage scientific investigation in languages and literature. Membership is open to all members of the University who are interested in philology.

*Washington University State Historical Society.*—The Washington University State Historical Society has for its purpose the preservation of historical documents and records of the Northwest and the state of Washington, and to preserve or publish the results of all investigations.

## GENERAL SCHOLASTIC REGULATIONS

## STUDIES

At the beginning of each quarter, the student arranges his schedule of studies with the advice and assistance of his class officer. A regular course consists of fifteen or sixteen hours of recitation per week.

Rule 16. No person may regularly attend any course in which he has not been registered as a student or enrolled as an auditor.

## REQUIREMENTS IN MILITARY SCIENCE AND PHYSICAL EDUCATION

All women students are required to take three hours of gymnasium work a week throughout the first and second years, ten credits in physical training being required by women for a degree.

Two years of military training are required of all able-bodied male students, except those from foreign countries not intending to become naturalized, (and except men over 24 years of age, at time of original entrance into the University.) By regulation of the University the course is required during the first and second years.

Neither the requirement of physical education for women, nor that of military science for men applies to any student entering as a junior or senior if the student has fulfilled the requirements in these subjects laid down by the institution from which he comes.

Rule 17. It shall be the duty of every student of whom military science is required, and, similarly, it shall be the duty of every student of whom physical education is required, to see that he is properly registered for the course, and to report for instruction. Delays in completion of full registration will not excuse a student from attendance. Students who are required to take military science, and similarly, students who are required to take physical education, but fail to report for classes, will, with the approval of the president, be excluded from all classes. The responsibility of complying with the regulations regarding military science and physical education rests entirely with the student.

Rule 18 (a). Men, who because of physical condition should not be required to take the work in military science shall be permitted to substitute physical training therefor. The authority for such substitution rests solely with the University health officer.

(b) Men or women, who, because of physical condition should, in the judgment of the University health officer, be relieved from the physical education requirement shall be exempted by him for one or more quarters; provided, however, that this shall not include any exemption from the lecture courses thereof.

(c) Students over twenty-four years of age at the time of original entrance into the University are exempt from the University requirements in military science and physical education.

(d) Men who are not citizens of the United States, and who do not intend to become citizens, are not permitted to enroll for military science but are required to satisfy the University requirement in physical education.

(e) Men who, because of pecuniary circumstances necessitating outside work, or because of other sufficient reasons, should not in the judgment of the dean be required to take military science during any particular quarter, may be permitted by the dean to substitute physical training during that quarter therefor. A student desiring to have the benefit of this rule must make written application to the dean of his college, accompanied by a statement of his military record, if any, from the department of Military Science and Tactics. Each grant of permission to substitute must be filed in the registrar's office.

(f) With the approval of the president the department of Military Science and Tactics, may, for good and sufficient reasons, at any time, cancel a student's registration in military science. This cancellation of registration will not operate to reduce the University requirements for graduation. Students whose registration has thus been cancelled will report to the dean of their college for adjustment. Notice of cancellation of registration will in every case be filed in the registrar's office, a duplicate copy being sent to the dean concerned for his information.

(g) Men who are active members in the army, navy, or marine corps of the United States, or of the National Guard or Naval Militia, or reserve officers of the military or naval forces of the United States, or members of the Naval Reserve, are not permitted to register as members of the Reserve Officers' Training Corps. They will be registered in the department of Military Science but deferred for one quarter only during which time they shall submit satisfactory credentials covering the actual amount of work accomplished. Failure to submit these credentials during the first quarter of residence will make it necessary for the student to take military science during the coming quarter. The deferment of military science for this reason and the evaluation of credentials to satisfy the University requirement shall be a function of the commandant. No deferment will be granted students above mentioned for any purpose other than as outlined in this paragraph.

Rule 19. A short-course student, a special student, or one registered for not to exceed six credits, shall not be required to include military science or physical education in his program.

#### REGULATIONS FOR WITHDRAWAL

Withdrawal is the voluntary severance by a student of his connection with a course or with the University and is indicated on the registrar's books by a "W." During the first four weeks of a quarter a student may withdraw from a course and be given a "W" with the written consent of his dean and his instructor. If he desires to withdraw at a later period, he may do so, but if his work has not been satisfactory he shall be given an "E" instead of a "W." If a withdrawal in either case will reduce the student's hours below 12, it must be approved by his dean. A student who drops a course without withdrawing shall be given an "E" in the course.

#### LEAVE OF ABSENCE

A leave of absence from the University, involving excuses from classes, may be granted by the dean concerned except as hereinafter provided.

Rule 22. (a) Leaves of absence on account of sickness shall be granted by the University health service, and shall be taken personally to the instructors concerned. Students absent on account of sickness shall not be re-admitted to classes without this written excuse. The University health service shall file a copy of these leaves of absence with the registrar.

(b) Leaves of absence from one class period with the exception of cases included in rule 22 (a) may be granted by instructors.

(c) Leave of absence from the University for recognized student activities (music, debate, etc.), for student conferences, elections and athletic meets on the campus, shall be passed on by the dean of men and the dean of women, respectively.

#### SCHOLARSHIP STANDING

For the purpose of applying rules concerning scholarship, students of the University will be divided into two groups; lower division

students, (i. e., those with not more than 100 credits) and upper division students; (i. e., those with more than 100 credits).

*Lower Division Rules:—*

Rule 23 (a) Any student who, any time in a quarter, is reported to the Registrar as doing work below passing grade in any subject shall be warned.

(b) Any student failing to make grades of A, B, or C, in two-thirds of his registered hours for any quarter shall be warned.

(c) Any student, who, at the end of any quarter, fails in more than one-third of his registered hours, shall be dropped.

(d) Any student, who, at the end of the winter or spring quarters, has failed to make grades of A, B, or C in at least two-thirds of his registered hours for two quarters of the current regular academic year, shall be dropped.

*Upper Division Rules:—*

(e) Any students who, at the end of any ~~academic year~~<sup>quarter</sup>, has failed to make grades of A, B, or C in at least two-thirds of his registered hours ~~for the year~~, shall be dropped.

*All Students:—*

(f) Reinstatement of a student disqualified under the provisions of Rule 23 shall be allowed only on permission of the board of deans. If a student is reinstated, he shall be on probation, and shall register under conditions prescribed by his dean, who shall be his registering officer.

(g) Probation is the status of a student who, having been dropped for scholastic failures but reinstated by the board of deans, is compelled to pass in all his registered hours. Such a student shall remain on probation until he has made grades of A, B, or C in at least ten credit hours for one quarter.

(h) In the administration of these rules military science and physical education shall be on the same basis as so-called "academic subjects."

### EXAMINATIONS

Rule 24. Examinations shall be held at the close of each quarter in all courses. Instructors desiring to excuse any or all students from examinations in any course shall obtain the approval of the head of the department and the dean of the college concerned.

Rule 25. Examinations shall be held in each course at the last scheduled class-hour of the quarter, and also at the next preceding class-hour, if desired; except in laboratory courses, when the last laboratory period may be used as a substitute or in addition. In case an instructor wishes to give an examination at other than the scheduled time, he must get the permission of the board of deans.

In certain courses running through two or more quarters the examination on the work of the first quarter is provisional, final credit not being given until the examination for the entire course has been passed.

Under "Departments of Instructions" such courses are indicated by course-numbers connected by hyphens.

Rule 26. A student desiring to be absent from his scheduled examinations must before leaving college, present to the instructors concerned permission from his dean to be absent.

Rule 27. A student, absent from a scheduled examination either by permission of his dean, or through sickness, or other unavoidable cause, may take another examination under the following conditions:

(a) He shall satisfy his dean as to his reasons for absence;

(b) He shall pay a fee of \$1 at the comptroller's office and get a receipt for same;

(c) He shall present this receipt to the registrar, who shall issue a card entitling student to examinations;

(d) He shall present this card to the instructors concerned and take the delayed examination at a time approved by his dean and instructor. No instructor need give more than one special examination in any one subject in any quarter.

Rule 28. Reports of all examinations of seniors must be in the registrar's office by 6 p.m. of the Monday preceding commencement day. Examination for all candidates for graduation at the end of the autumn, winter, and summer quarters shall conform to the regular examination schedule.

#### SYSTEM OF GRADES

1. The following is the system of grades:\*

A .....	Honor
B, C or D .....	Intermediate
E .....	Failed
I .....	Incomplete
W .....	Withdrawn

The grade "E" is final and a student receiving a grade of "E" in a course can obtain credit for that course only by re-registering for it and repeating it.

A grade of "W" can be given only in case of regular withdrawal in good standing.

An Incomplete is given only in case the student has been in attendance and done satisfactory work to time within two weeks of the close of the quarter. The two-week limit may be extended to three weeks in those cases in which a student has obtained a regular leave of absence from his dean. (This provision for extension of time shall not apply to one-term summer courses.) An Incomplete in a course is convertible into a passing grade, only during the next quarter in which the student is in residence, and provided the work of the course shall have been finished in a satisfactory manner. In special cases removal of an Incomplete may be deferred by the dean of the proper college. Notice of such deferment must be filed with the registrar.

2. Candidates for the bachelor's degrees in the colleges of Liberal Arts, Science, Business Administration, Fine Arts and Forestry, the Library School, the Law School, the School of Education, and the School of Journalism, must receive grades of A, B, or C in three-fourths of the credits required to be earned in this University for their respective degree.

3. The grades "passed" or "failed" are used in reporting the work of graduate students.

Rule 29. Except in cases of clerical error, no instructor shall be allowed to change a grade which has once been turned in to the registrar.

#### TUTORING RATES

Rule 30. The maximum rates to be charged by official tutors shall be as follows:

No. in Class	Fee per hour
1 .....	\$2.00 per student
2 .....	1.20 per student
3 .....	1.00 per student
4 .....	.90 per student
5 .....	.80 per student

\*These grades correspond approximately to the old marking scheme as follows: A, 100-96; B, 95-86; C, 75-70; D, 70-0.



6 .....	.70 per student
7-15 .....	5.00 per class

No class to be larger than 15.

No reduction to be made for absences.

Fees to be payable by the month, in advance.

#### LIBRARY RULES

Rule 31. Following shall be regulations governing the use of the library:

(a) Any student may borrow books from the library for a period of two weeks; provided, however, that any book may be called in at any time.

(b) A loan may be renewed on or before the day the loan expires if there is no other demand for the book.

(c) A fine of 3 cents per day is imposed for each day a book is retained after it is due; provided, however, that if a book is retained five days or more after it is due the borrower may be assessed double the accumulated fine. The date a book is due is stamped inside the back cover.

(d) Any reserved book may be borrowed for any period when the library is to be closed, but failure to return the same within ten minutes after the library next opens will subject the borrower to a fine of ten cents for the first hour or any part of that hour and five cents for each additional hour or fraction thereof that the book is retained. All fines are due when the book is returned.

(e) Books must not be taken from the library without being charged at the loan desk.

(f) Failure to comply with (c), (d) or (e) shall be considered "a delinquency in a financial obligation."

#### DISCIPLINE

Rule 32. (a) All charges of infraction of the honor code as promulgated by the A.S.U.W. shall be referred to the senior council established by said A.S.U.W.

(b) The decisions of the senior council in said cases shall be referred to the president of the University before taking effect.

(c) All charges of infraction of the rules and regulations of the University shall be referred to the faculty committee on discipline for investigation and final decision.

(d) The number of credits required for graduation may be increased as a penalty for violation of the rules of the University.

#### STUDENT PUBLICATIONS

Rule 34. Only those publications may make use of the good will of the University in soliciting advertising who shall be so designated by the committee on publications.

Rule 35. All requests for permission to issue student publications shall be referred to the committee on publications with power to act.

Rule 36. The editor of the *University of Washington Daily* and the editors of all other student publications shall be held responsible for all matter that appears in their respective publications. Correspondents of all other publications shall be held similarly responsible for all items contributed by them to their respective publications.

Rule 37. No special editions of *The Daily*, by special sets of editors, shall be allowed, except by special permission of the publications committee of the board of control.

## STUDENT ACTIVITIES

Rule 38. Student activities shall include:

- (a) Any sport or pursuit for which an A.S.U.W. emblem is granted.
- (b) Any sport or pursuit organized under an A.S.U.W. coach or a member of the faculty in preparation for (a).
- (c) Any semi-scholastic pursuit for which credit is given.
- (d) Any all-university public performance managed by students.

## ELIGIBILITY RULES

## GENERAL

Rule 39. (a) In order to be eligible to represent the University in any student activity, a student must:

- 1. Be registered in the University.
- 2. Have presented fifteen (15) Carnegie units for entrance requirements. This provision shall not apply to students regularly registered for credit in Mus. 17, 10, 11 and 12, 28, 29 and 30.
- 3. Be registered for at least twelve hours' work in a regular or special course as defined in the curriculum of his school or college.
- 4. Have passed ten credits of the curriculum in which he is enrolled for the quarter of residence previous to participation. Fractional hours are to be disregarded in favor of the participant.
- 5. Not have a total of failures on his previous record, in this or any other institution, exceeding one-fifth of his total hours earned.
- 6. Keep off probation.
- 7. Secure a written leave of absence, if his absence from classes is required by participation.
- (b) An incomplete shall not be counted as failure or passed until adjusted.
- (c) The foregoing general rules shall apply to the editors-in-chief and business managers of all authorized student publications. Eligibility in these cases shall be determined by the Director of the School of Journalism.
- (d) All elective officers of the A.S.U.W., head student managers, members of the executive committee and council of the Women's Federation, Y.M.C.A. and Y.W.C.A. presidents, and class officers, must comply with these general eligibility rules. Eligibility in these cases shall be determined by the committee on student welfare.
- (e) A student, after having been declared eligible for any student activity, as defined in Rule 38, shall remain eligible, scholastically, for the remainder of the season of participation; provided, that in cases of moral delinquency no previous notice shall be required to disqualify.
- (f) A student, to be eligible to take part in any intramural meet or game under the control of the department of physical education, must pass any physical tests set by the department of physical education, and practice at least one month before any intramural meet or game. Eligibility in these cases shall be determined by the heads of the department of physical education for men and women respectively.

## SPECIAL

*Group I*

## Athletics.

- (a) In order to be eligible to represent the University in any inter-collegiate athletic activity, a student must:

1. Comply with the foregoing general rules of eligibility.
2. Have been in residence for one calendar year after his matriculation, provided that until one calendar year after his matriculation any student (of less than junior scholastic standing and otherwise eligible as a freshman) not a transfer, shall be eligible to compete in freshman contests; and provided, that a student transferring to this University, with at least full sophomore standing, from an institution not granting a standard bachelor's degree, shall be eligible to play on varsity teams during his first year of residence, but not eligible to compete on freshman teams.
3. Have completed thirty-six (36) quarter hours of scholastic work, and earned passing credits therefor.
5. Be, one week before the first conference game, carrying satisfactorily two-thirds of the normal hours of the curriculum in which he is enrolled for the quarter of participation. All members of the squad found eligible one week before the first conference game shall be declared scholastically eligible for the season in question; provided, that in cases of moral delinquency no previous notice shall be required to disqualify.
5. Pass any physical tests set by the department of physical education.
6. Have registered not later than three weeks after the first day of registration in the quarter in which he desires to compete.

(b) No student shall participate in any one intercollegiate sport for more than three college seasons in the aggregate, and shall not compete in varsity competitions in more than four separate academic years. In the interpretation of this rule it is understood that any man who participated in any intercollegiate competition previous to December 1, 1915, shall be eligible to compete in any sport for four seasons in the aggregate.

(c) So far as applicable these regulations shall apply to freshmen. Freshmen shall not be allowed to play with varsity men on a team representing the institution in any outside competition. For the purpose of this rule a person, to be a freshman, must have completed less than thirty-six quarter hours of scholastic work.

(d) Eligibility in athletic cases shall be determined by the chairman of the faculty athletic committee.

(e) Athletics for women shall be limited to games and contests within the University. Such games and contests shall not be open to the public. Eligibility in these cases shall be determined by the head of the department of physical education and hygiene for women.

### *Group II*

Dramatics, music, debate, oratory, for which credit is given.

(a) In these activities a student must comply with the foregoing general rules of eligibility and must satisfy the department responsible for the work, before he is allowed to represent the University; provided, that if a student engages in any part of these activities without registering for the course of which it forms a part, his eligibility shall be determined by the committee on student welfare.

(b) No student shall take part in more than one dramatic performance during a quarter unless such performance is part of a regular course for credit.

### *Group III*

All-University public performances managed by students and not included in Groups I and II.

(a) In these activities, a student must comply with the foregoing general rules of eligibility and satisfy the committee on student welfare before he is allowed to represent the University.

#### MISCELLANEOUS

Rule 49. Smoking shall not be allowed in the University recitation or laboratory buildings or on the steps thereof.

Rule 50. Push-ball contests, tie-ups, and all other forms of class conflicts are prohibited. Any forms of hazing, or of interference by any class or any members of any class with the personal dignity and liberty of any member of any class, are a breach of discipline and are prohibited.

Rule 51. (a) Student clubs or organizations connected with the work of a department or departments may have speakers to address them at the University, provided the speakers are vouched for by the head of the department concerned. They must also secure the permission of the superintendent of buildings to use the University grounds or buildings.

(b) All extra-departmental groups, wishing to have speakers address them must have the speakers approved by the assembly committee and must secure the permission of the superintendent of buildings for the use of any of the University buildings or any part of the grounds of the University.

Rule 52. There may be three University formal social functions in any academic year, viz., the junior prom and the varsity ball, not open to freshmen, and the cadet ball, open to freshmen.

Rule 53. (a) During the first four weeks of the autumn quarter, no fraternity or sorority nor any organization or club whose membership is made up wholly of men or women shall give any social function at which members of the opposite sex are entertained.

(b) During the college year, social functions may be held on Fridays and Saturdays only. The night before a single University holiday shall be free for social affairs, except in the case of the night before Campus Day.

(c) No social functions involving both sexes may be held within the two weeks preceding the quarter or year examinations.

#### FRATERNITIES AND SORORITIES

(d) During the college year, picnics may be held only Saturdays.

Rule 54. (a) No fraternity or sorority shall pledge any person for membership whose registration in the University is not complete. SEE REGISTRATION.

(b) No student having less than junior standing shall be initiated into a fraternity or sorority until he or she has earned 18 "scholastic credits" or provisional credits in two quarters, or 15 in one quarter, at this University. (Provisional credits are those given on successful completion of one quarter's work in a course running through two or three quarters. Such credit becomes final when the entire course is completed.)

(c) Any ex-service man entering the University with fifteen entrance units, at least ten academic credits, and a minimum of ten military credits, shall be regarded as eligible for initiation into a fraternity.

(d) Any ex-service man who, in addition to having fifteen entrance units and a minimum of ten military credits, shall have earned in the University a minimum of ten credits in one quarter, shall be

eligible for initiation into a fraternity; provided always that if he is registered for less than fifteen hours, he must have passed in all his hours.

(e) Candidates for initiation into either fraternities or sororities shall secure from the registrar's office a certificate of eligibility.

Rule 55. The location of all fraternity and sorority houses must be approved by the president of the University.

# COLLEGE OF LIBERAL ARTS

## THE FACULTY, 1927-28

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Professor of Latin; Dean of Faculties, and Dean of the College of Liberal Arts
Fred Carlton Ayer, Ph.D. (Chicago).....	Professor of Education
Allen Rogers Benham, Ph.D. (Yale).....	Professor of English
Frederick Elmer Bolton, Ph.D. (Clark).....	Professor of Education; Dean of the School of Education
Allen Fuller Carpenter, Ph.D. (Chicago).....	Professor of Mathematics
Edward Godfrey Cox, Ph.D. (Cornell).....	Professor of English
Shirley Jay Coon, Ph.D. (Chicago).....	Professor of Economics and Business Administration
Herbert E. Cory, Ph.D. (Harvard).....	Professor in Liberal Arts
Pierre Joseph Frein, Ph.D. (Johns Hopkins).....	Professor of Romance Languages
Herbert Henry Gowen, F.R.G.S., M.R.S.A., D.D. (Whitman).....	Professor of Oriental Studies
Charles E. Martin, Ph.D. (Columbia).....	Professor of Political Science
Edmond S. Meany, M.L. (Wisconsin), LL.D. (College of Puget Sound).....	Professor of History
Roderick Duncan McKenzie, Ph.D. (Chicago).....	Professor of Sociology
Robert Edouard Moritz, Ph.D. (Strassburg).....	Professor of Mathematics
Caroline Haven Ober.....	Professor of Spanish
Frederick Morgan Padelford, Ph.D. (Yale).....	Professor of English; Dean of the Graduate School
Vernon Louis Parrington, A.B. (Harvard), A.M. (Emporia).....	Professor of English
Howard Hall Preston, Ph.D. (Iowa).....	Professor of Economics and Business Administration
Effie Isabel Raitt, A.M. (Columbia).....	Professor of Home Economics
Edgar Dunnington Randolph, Ph.D. (Columbia).....	Professor of Education
Oliver Huntington Richardson, Ph.D. (Heidelberg).....	Professor of European History
Alexander Crippen Roberts, Ph.D. (Washington).....	Professor of Education; Director of the Extension Service
William Savery, Ph.D. (Harvard).....	Professor of Philosophy
Stevenson Smith, Ph.D. (Pennsylvania).....	Professor of Psychology
George Wallace Umphrey, Ph.D. (Harvard).....	Professor of Romance Languages
Edwin John Vickner, Ph.D. (Minnesota).....	Professor of Scandinavian Languages
Roy M. Winger, Ph.D. (Johns Hopkins).....	Professor of Mathematics
Howard B. Woolston, Ph.D. (Columbia).....	Professor of Sociology
Dudley David Griffith, Ph.D. (Chicago).....	Professor of English
Edward McMahon, A.M. (Wisconsin).....	Professor of American History
Thomas Kay Sidey, Ph.D. (Chicago).....	Professor of Latin and Greek
Grace Goldena Denny, A.M. (Columbia).....	Associate Professor of Home Economics
Erwin A. Esper, Ph.D. (Ohio State).....	Associate Professor of Psychology
William H. George, Ph.D. (Harvard).....	Associate Professor of Political Science
Charles Goggio, Ph.D. (Wisconsin).....	Associate Professor of Romance Languages
Edwin Ray Guthrie, Ph.D. (Pennsylvania).....	Associate Professor of Psychology
Joseph Barlow Harrison, B.A. (Oxford).....	Associate Professor of English
Harley F. McNair, Ph.D. (California).....	Associate Professor of Political Science
Theresa Schmid McMahon, Ph.D. (Wisconsin).....	Associate Professor of Economics
Loren Douglas Millman, A.B. (Michigan).....	Associate Professor of English
Frederick Wesley Orr, A.M. (Lawrence).....	Associate Professor of English
Otto Patzer, Ph.D. (Wisconsin).....	Associate Professor of French
Macy Milmore Skinner, Ph.D. (Harvard).....	Associate Professor of Economics and Business Administration
Edward Noble Stone, A.M. (Olivet).....	Associate Professor of Classical Languages
Paul Radin, A.B. (College of City of New York).....	Associate Professor of Anthropology
Irean Bain, Ph.D. (Michigan).....	Assistant Professor of Sociology
John Perry Ballantine, Ph.D. (Chicago).....	Assistant Professor of Mathematics
Ralph Mason Blake, Ph.D. (Harvard).....	Assistant Professor of Philosophy
Addie Jeannette Bliss, A.M. (Columbia).....	Assistant Professor of Home Economics
Kenneth Cole, B.Lit. (Oxford).....	Assistant Professor of Political Science
Leland Hargrave Creer, Ph.D. (California).....	Assistant Professor of History
Harvey Bruce Densmore, B.A. (Oxford).....	Assistant Professor of Greek
Louis Peter DeVries, Ph.D. (Wisconsin).....	Assistant Professor of Romance Languages
August Dvorak, Ph.D. (Minnesota).....	Assistant Professor of Education
Ernest Otto Eckelman, Ph.D. (Heidelberg).....	Assistant Professor of Germanic Languages

Lawrence Deems Egbert, Docteur en Droit (University of Paris).....	Assistant Professor of Political Science
George Irving Gavett, B.S. (C.E.) (Michigan).....	Assistant Professor of Mathematics
Eldon Griffin, A.B. (Harvard).....	Assistant Professor of Oriental Studies
Norman Sylvester Hayner, Ph.D. (Chicago).....	Assistant Professor of Sociology
Charles Louis Helmlinge, A.M. (Washington)....	Assistant Professor of Romance Languages
Glenn Arthur Hughes, A.M. (Washington).....	Assistant Professor of English and Dramatic Art
Henry Lucas, Ph.D. (Michigan).....	Assistant Professor of History
George Andrew Lundberg, Ph.D. (Minnesota).....	Assistant Professor of Sociology
Lewis I. Neikirk, Ph.D. (Pennsylvania).....	Assistant Professor of Mathematics
Blanche Payne, B.S. (Columbia).....	Assistant Professor of Home Economics
William Merritt Read, Ph.D. (Michigan).....	Assistant Professor of Classical Languages
*Jessie Irene Rowntree, M.S. (Chicago).....	Assistant Professor of Home Economics
Bernice Wait, M.A. (Illinois).....	Acting Assistant Professor of Home Economics
Curtis Talmadge Williams, Ph.D. (Clark).....	Assistant Professor of Education
Herman Zanstra, Ph.D. (Minnesota)....	Assistant Professor of Astronomy and Mathematics
Elizabeth Anne Rivers, M.A. (Columbia)....	Acting Assistant Professor of Home Economics
Linden Alfred Mander, M.A. (Adelaide, Australia)...	Assistant Professor of Political Science
Cecil L. Hughes, Ph.D. (Washington).....	Assistant Professor of Education
Martha Estella Dresslar, M.S. (Columbia).....	Assistant Professor of Home Economics
Ruth M. Lusby, A.M. (Columbia).....	Assistant Professor of Institutional Management
Frederick William Melsnest, Ph.D. (Wisconsin).....	Lecturer on German
Otis Bedney Sperlin, Ph.M. (Chicago).....	Lecturer on English
Genevieve Knight Ballaine, A.B. (Olivet).....	Associate in Latin
Lois Brown, A.M. (Washington).....	Associate in English
Iva Buchanan, A.M. (Washington).....	Associate in History
Edgar Marlon Draper, Ph.D. (Washington).....	Assistant Professor of Education
Ralph Gundlach, A.M. (Washington).....	Associate in Psychology
Amy Violet Hall, A.M. (Washington).....	Associate in English
Rachel Hamilton, A.M. (Washington).....	Associate in French
Marion Hathway, M.A. (Chicago).....	Associate in Sociology
Arthur Jerbert, M.S. (Washington).....	Associate in Mathematics
Pamella Pearl Jones, A.M. (Iowa State).....	Associate in English
Sylvia Finlay Kerrigan, A.M. (Washington) .....	Associate in English
Jane S. Lawson, M.A. (Saint Andrews).....	Associate in English
Hunter Campbell Lewis, M.A. (British Columbia).....	Associate in English
Lurline Simpson, A.M. (Washington).....	Associate in French
Charles Southwick, A.M. (Washington).....	Associate in French
Ottillie Terzieff, A.M. (Washington).....	Associate in German
Bertha Almen Vickner, A.M. (Washington).....	Associate in English
Edward Wagenknecht, A.M. (Chicago).....	Associate in English
Eleanor Wesner, A.M. (Northwestern).....	Associate in German
William Wilson, A.M. (Washington).....	Associate in Spanish
Clyde Myron Cramlet, Ph.D. (Washington).....	Instructor in Mathematics
Sarah H. Brown, M.A. (Washington).....	Associate in Philosophy
Ebba Dahlin, Ph.D. (Stanford).....	Instructor in History
Edith Dobie, Ph.D. (Stanford).....	Instructor in History
Carlos Garcia-Prada, A.M. (Michigan).....	Instructor in Spanish
Alletta Gillette, A.M. (Washington).....	Extension Instructor in English
Hernance Mullemelster, Ph.D. (Cambridge).....	Instructor in History
Cecil Eden Quainton, B.A. (Cambridge).....	Instructor in History
Frederic Sanchez, A.M. (Michigan).....	Instructor in Spanish
Sophus Keith Winther, Ph.D. (Washington).....	Instructor in French
Walter Bell Whittlesey, A.M. (Washington).....	Instructor in French
James George Arbuthnot, B.S. (Kansas State College).....	Assistant Professor of Physical Education for Men
Irving Mackey Glen, A.M. (Oregon).....	Professor of Music; Dean of the College of Fine Arts
George Edward Goodspeed, Jr., B.S. (Massachusetts Institute of Technology)....	Assistant Professor of Geology
Mary Emma Gross, A.M. (Columbia)....	Associate Professor of Physical Education for Women
David Connolly Hall, Sc.M., M.D. (Chicago).....	University Health Officer; Professor of Hygiene
Robert W. Jones, A.M. (South Dakota).....	Associate Professor of Journalism
Trevor Kincaid, A.M. (Washington).....	Professor of Zoology
Albert R. Lovejoy, B.L.I. (Emerson).....	Acting Assistant Professor of Dramatic Art
Frederick Arthur Osborn, Ph.D. (Michigan).....	Professor of Physics
George Burton Rigg, Ph.D. (Chicago).....	Associate Professor of Botany
George McPhail Smith, Ph.D. (Freiburg).....	Professor of Inorganic Chemistry

\*Absent on leave, 1927-28.

## I. GENERAL STATEMENT

*Instruction Provided.*—The College of Liberal Arts provides instruction in languages, education, economics and business administration, history, mathematics, philosophy, political science, psychology, sociology, and anthropology. Here too, the students preparing to enter the Schools of Law, Journalism, Education and Library Science naturally receive their preliminary training. With the College of Science, it affords the student an opportunity to acquire a general education which shall serve as a sure foundation for real success in whatever profession he may choose. In the College of Liberal Arts the work of the high school is closely articulated with that of the college. To obtain the degree of bachelor of arts the student must first fulfill the requirements of the lower division and then complete two years of work in the upper division. The detailed requirements are set forth below.

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration and expenses, may be found on pages 42, 49 and 50.

## II. ENTRANCE REQUIREMENTS

*Secondary School Units.*—For entrance to the College of Liberal Arts, a student must present 15 secondary school units, as follows:

- |                                 |         |
|---------------------------------|---------|
| 1. English .....                | 3 units |
| 2. Algebra .....                | 1 unit  |
| 3. Geometry .....               | 1 unit  |
| 4. Foreign Language .....       | 2 units |
| 5. Additional (electives) ..... | 8 units |

*"Unit" Defined.*—A "unit" is applied to work taken in high school; a "credit" to work taken in college. To count as a unit, a subject must be taught five times a week, in periods of not less than forty-five minutes, for a school year of thirty-six weeks. In satisfying entrance requirements with college courses, a minimum of ten credits is counted as the equivalent of the entrance unit.

*Foreign Languages Accepted.*—For the College of Liberal Arts the foreign language requirement may be satisfied by: Latin, Greek, French, German, Spanish, Scandinavian or Italian. If a student fails to present two units in one of these languages, but presents two units in another foreign language, he will receive college credit for required foreign language taken in the University.

*Scholarships.*—From 1921 to 1925, inclusive, an applicant for admission to the University was required to present grades of 80 or better in two-thirds of the credits earned in high school after September, 1921. A modified form of scholarship requirement, recommended by a committee of high school principals, has been adopted by the University so that admission shall be granted to recommended graduates of accredited four-year high schools who—

1. Present a record of scholarship two-thirds of the marks of which are at least one step above the lowest passing grade. (One "step" means one letter, or other symbol, in a system using three or four passing grades. In a purely percentage system, a "step" would mean a minimum of one-fourth of the interval between the lowest passing grade and 100. The old scholarship rule will be applied to percentage grades earned prior to the second semester 1924-1925.)



2. Have not more than three semester failures in the high school course. (Failures appearing in the applicant's high school record prior to June 1925, will not be counted in the application of this section of the regulation.)
3. Have not more than eight units (sixteen credits) earned in courses open to high school freshmen. (The provisions of this section of the regulation will not be applied to applicants entering the University before the beginning of the autumn quarter, 1926.)

*Grades, Provision for Raising.*—If a graduate of an accredited secondary school fails to meet the scholarship requirement, he has the privilege of qualifying for admission either by—

1. Raising his grades by passing the regular "make-up" examinations of his school, or by
2. Passing the regular University entrance examinations in a sufficient number of subjects in which he has fallen below the required standard, to bring his average grade up to the required two-thirds, one step at least above the lowest passing grade. Successful passing of these examinations will require a very thorough review of the subjects concerned after the work has been completed in high school.

Any student who wishes to be examined to bring his average grade up to the required two-thirds should send to the registrar, with his application for examination, a detailed statement of courses in which he desires to be examined. This is essential, so that the examination may be a fair test of the student's ability. Such descriptions may best be obtained through the high school principal. (For dates see page 47.)

*High School Deficiencies.*—A student who has not taken required subjects in the secondary school must make up the deficiency in the University as part of his regular schedule of work, but without receiving college credit. Deficiencies must be registered for on entrance, except in *rare* cases where the dean may grant permission to defer them. All deficiencies must be made up by the end of the fourth quarter of residence; failure to comply with this requirement will make a student ineligible for readmission until regular standing has been acquired. A student has the privilege of making up his deficiency in High School, but must reduce his schedule accordingly in college while doing so.

*Electives in Secondary School.*—In order to secure the greatest freedom of election in college, electives in the secondary school should be distributed as follows:

1. U. S. History and civics..... 1 unit
2. History other than U. S..... 1 unit
3. Physics or Chemistry, with laboratory..... 1 unit
4. Botany, Geology, or Zoology with laboratory..... 1 unit
5. Mathematics, Language, History, or one of the sciences mentioned in 3 or 4..... 1 unit
6. Electives, selected from subjects accepted by an accredited High School for its diploma..... 3 units

Less than one unit will not be counted in physics, chemistry, general biology or a foreign language. A maximum of 4 units will be counted in vocational subjects.

*Provisional Admission.*—Provisional admission to the University may,

on recommendation of the principal, be granted for one quarter to those applicants who

1. Meet all specific University requirements, but
2. Fail to meet any or all provisions 1, 2, 3 or the scholarship requirement, and
  - a. Show strong working traits, special interest, or talents, as indicated in their applications and endorsed by the principal, and
  - b. Show a sufficiently high intelligence quotient in a test given by the University.

Special forms for recommending graduates for provisional admission will be furnished to high school principals on request. It is essential that all the information called for in these forms shall be available when a recommendation for provisional admission is considered by the committee on admission. The recommendation form, together with a complete copy of the student's high school record, must be sent by the principal directly to the registrar, and not given to the student.

*Foreign Students.*—Students from approved schools in foreign countries will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge of English to enable them to carry regular college work successfully.

*Transfer Students.*—It is highly desirable that students entering the College of Liberal Arts from another institution should obtain from the registrar, as soon as possible, a statement of their requirements for the bachelor's degree. Otherwise, by failing to fulfil the requirements, they will find their graduation postponed for a quarter or more, despite the fact that they may have earned credits sufficient in number to entitle them to the degree.

*Normal Graduates.*—Graduates of the two-year curriculum of approved normal schools may receive junior standing provided their credits meet the requirements of the University for entrance, scholastic standing, and credit hour load. For graduation with the degree of bachelor of arts a normal school graduate with such advanced credit must earn in the University a sufficient number of credits to bring the total up to 180 credits plus ten credits of required courses in physical education or military science, and including all specific requirements for the degree not fairly covered by previous work. Claims for exemption from specific requirements, based on work in normal school, are passed on by the registrar and the dean of the college. It should be noted that a student whose work in high school and normal school has not included a sufficient number of special requirements of the College of Liberal Arts, may find it necessary to offer more than the usual 180 scholastic credits for the degree of bachelor of arts.

*Medical Examinations.*—All students entering the University for the first time are required to present themselves for appointment for medical examination, on or before the day following registration, men to the infirmary, and women to the department of physical education for women in the gymnasium.

### III. LOWER DIVISION

*Specific Requirements.*—The work of the lower division comprises studies of the freshman and sophomore years of the undergraduate curriculum. A student is said to be enrolled in the lower division until he has completed all such courses as are required during the first two col-

lege years, and until he has attained a minimum of 90 scholastic credits. Specific requirements are listed below.

REQUIREMENTS	EXEMPTION
1. <i>History, U. S.</i> ; 57-58-59	One year of U. S. History in High School. (may be $\frac{1}{2}$ civics and $\frac{1}{2}$ U. S. History.)
2. <i>History</i> , other than U. S. May be satisfied by 1-2; or 5-6; or 71-72-73	One year of any History other than U. S. in High School
3. <i>English</i> 1-2; ten credits	Exemption by examination only.
4. <i>Ancient Life and Literature</i> (in translation)—ten credits. May be satisfied by "a" or "b" or "c": a. Any two: Latin 11, 13; Greek 11, 13; or b. Any two: Ori Studies 50, 51, 52 or c. Greek 15-16	Three years of ancient language in High School or College, or in High School and College combined.
50 <i>Physical Science</i> —ten credits, of either: a. Physics 4-5; or b. Chemistry 1-2	One year of one in high school
6. <i>Biological Science</i> —ten credits from one of the following groups: a. Botany 1, 2, 3; b. Botany 105, 106, 107; c. Geology 1a-1b-2; d. Geology 1a-1b-11; e. Geology 10-11; f. Geology 1a-1b-112; g. Zoology 1-2.	One year of one in high school
7. <i>Social Science</i> —ten credits of one or five credits each of two. May be satisfied by: a. Any two of—Economics 1, Political Science 1, Sociology 1, or by b. Any one of courses in "a", together with another five credit course for which it is a prerequisite.	No exemption. (Students who did not have civics in High School must have Political Science 1.)
8. <i>Psychology</i> 1; five credits	No exemption
9. <i>Philosophy</i> ; 5 credits. May be satisfied by 1 or 2 or 3 or 5	No exemption (Not open to freshmen)
10. <i>Military Science or Physical Education</i> ; ten credits	No exemption

*Planning Schedules in Lower Division.*—As a rule students in the lower division must confine their election to courses numbered 1 to 99 in the catalogue. If a student has had the proper prerequisite or is deemed qualified in intellectual maturity he may register for an upper division

course with the consent of the dean and instructor concerned. If a student avails himself of this privilege he should be careful not to allow it to interfere with the completion of all the requirements of the first two years.

#### IV. UPPER DIVISION

*Planning Schedules in Upper Division.*—The upper division comprises the studies of the junior and senior years. It consists principally of the advanced work of the undergraduate curriculum, and is therefore differentiated, both in content and method from that of the lower division. A student is said to be enrolled in the upper division when he has completed all such studies as are required during the first two college years and has attained a minimum of 90 scholastic credits, plus the ten credits in military science or physical education.

*Number Upper Division Credits Required.*—At least 60 credits of the 180 scholastic credits required for graduation must be in upper division courses (courses numbered 100 to 199, or courses numbered below 100 for which upper division credit can be earned); and these 60 upper division credits shall include at least 50 per cent of the credits offered in the major.

#### V. MAJORS AND ELECTIVES

*Major Credits Required.*—From 36 to 60 credits must be earned in a single department known as the major department, but for a major in English, 10 credits in English 1-2 may be counted in addition to 60 credits in other English courses. Of the credits earned in the major, at least 50 per cent must be in upper division courses. In the application of this rule, courses 1-2 in English or a foreign language may be disregarded when counting credits for a major.

*Majors Offered.*—By the end of the sophomore year each student should have determined on the department in which he shall do the major work required. The following are the departments from which a candidate for the B. A. degree must select his major:

Anthropology	Greek	Political Science
Economics	History	Philosophy
Education	Home Economics	Psychology
English	Latin	Romanic Lang. & Lit.
Gen Literature	Mathematics	Scandinavian
German	Oriental Studies	Sociology

Students should consult with the executive officer of a department before registering for courses in their prospective major. For suggestions to students intending to enter the schools of Education, Journalism, Law, or Library Science see pages 84-89.

*Group Limitations.*—At least 72 credits, including the major, must be earned in the group in which the major department falls. For this purpose the departments are grouped as follows:

No. 1—*Language and Literature.*—Classical languages and literature, English, general literature, German, Oriental languages and literature, Romanic languages and literature, Scandinavian.

No. 2—*Philosophical.*—Anthropology, economics and business administration, education, history, liberal arts, mathematics, philosophy, political science, psychology, sociology.

This group requirement of 72 credits does not apply to majors in home economics.

*Department Limitations.*—The number of credits in the major and any other single department combined must not exceed 96 (except when English is combined with the major department for the purpose of this total, credits in English 1-2 may be disregarded). In the application of this rule, French, Italian and Spanish are treated as separate departments.

*Economics Majors.*—Liberal Arts students majoring in economics must have at least 50 per cent of the major in upper division courses; they must take course 160 and shall select at least 30 additional credits in courses from the following list:

- |                                  |                                  |
|----------------------------------|----------------------------------|
| 1. 2. General Economics          | 122. Principles of Investment    |
| 60. Labor in Industry            | 159. Advanced Money & Banking    |
| 61. Social and Economic Stand-   | 160. Advanced Economics          |
| ards                             | 161. Labor Economics             |
| 103. Money and Banking           | 162. European Labor Problems     |
| 104. Economics of Transportation | 164. Land Economics              |
| 106. Economics of Marketing &    | 165. Labor Legislation           |
| Adv.                             | 166. Women in Industry           |
| 108. Risk and Risk Bearing       | 168. History of Economic Thought |
| 121. Corporation Finance         | 171. Modern Criticism            |
|                                  | 181. Economics of Consumption    |

Courses offered in the summer quarter shall be accepted on an economics major only upon the approval of the dean of the College of Business Administration.

*Scheme of Electives.*—For the purpose of election, outside the major department, the College of Liberal Arts, the College of Science, the School of Education, the College of Business Administration, and the School of Journalism are treated as one. A total of thirty-six credits in courses given outside these colleges may be counted toward a bachelor of arts degree. Of these thirty-six not more than twenty-four may be taken in any one college or school, except that from the College of Fine Arts thirty-six credits may be counted.

## VI. SCHEDULE LIMITATIONS

*Dean's Signature.*—No student shall be registered for more than 16 hours a quarter (exclusive of military science and physical education), or for less than 12 hours a quarter except with the written consent of the dean.

*Outside Work.*—In addition to a load of 16 plus  $1\frac{2}{3}$  hours a student may carry a maximum of 8 hours per week outside work without special permission. But if he carries more than 8 hours of outside work, he must have the dean's signature for excess hours, each 3 hours of outside work counting the same as one credit hour. A student who is obliged to do outside work must enter on his registration blank a statement of the nature of the work and the number of hours per week so used. In considering petitions for reinstatement the Board of Deans shall take no cognizance of outside work if it has not been noted on the student's registration blank.

*Excess Hours Based on Grades.*—No entering freshman may carry excess hours. Other students, when applying to the dean for this privilege, must bring their grade books. Requests will be granted only under the following conditions:

- 17 hours, when grades average B, with no grade below C
- 18 hours, when grades are straight B—or better
- 19 hours, when all grades are A

Juniors and seniors who have made *exceptionally* good records may in rare cases be allowed to carry 20 hours.

*High School Deficiencies.*—Deficiencies which are being made up in high school shall count on the student's schedule as five hours per half unit.

## VII. REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

*Total Hours.*—To obtain the degree of bachelor of arts (A. B.) the student must complete not less than 190 credits, must observe the restrictions in regard to major and group requirements, scholarship requirements, and the requirements of the lower and upper divisions, and must show a reading knowledge of one of the foreign languages taught in the University. Detailed information is given below.

*Graduation Option—Catalogues.*—All students shall have the option of being held to the entrance and graduation requirements of the catalogue under which they enter, or those of the catalogue under which they expect to graduate. All responsibility for fulfilling the requirements for graduation from the various schools and colleges of the University shall be thrown upon the student concerned.

*All Courses Must be Completed.*—A student who registers for an elective course must ultimately complete the course, unless relieved of the necessity by his dean. A student properly withdrawn and given a "W" shall not be affected by this rule. A grade of "W" can be given only in case of regular withdrawal while in good standing.

*Reading Knowledge of a Foreign Language.*—A reading knowledge of one of the foreign languages taught in the University is required for graduation from Liberal Arts. Students may take the test in satisfaction of this requirement during any quarter of residence, and must sign up for it in the dean's office not later than a date set at least four weeks from the end of the quarter. This requirement does not apply to graduates of the six-year Arts and Law curriculum, nor to students planning to graduate under the catalogue of 1922-1923, or under earlier catalogues.

*Residence Work.*—A minimum of three full quarters of residence in the senior year, with completion of 36 credits, is required for any degree granted by the University.

*Grades.*—Not less than three-fourths of the credits required for graduation must be earned with grades of A, B, or C.

*Grades Cannot Be Changed.*—Except in cases of clerical error, no instructor shall be allowed to change a grade which has once been turned in to the registrar.

*Failures.*—Grade "E" is final and a student receiving a grade of "E" in a course can obtain credit for that course only by re-registering for it and repeating it.

*Knowledge of Federal and State Constitutions.*—A requirement for any degree granted by this University is a knowledge of the Federal and State constitutions. For further information, see the announcement under Political Science 101 in the Departments of Instruction bulletin.

*Application for Degree.*—Each senior shall, upon registration, file with the registrar a written application for his degree. Each application shall be checked by the Committee on Graduation at least six months before the date on which the student expects to be graduated and notice shall be sent to the student by the registrar of the acceptance or rejection of his application. The accepted list shall be submitted at the last regular meeting of the faculty for the quarter in which the checking is done.

If approved by the faculty, with or without modification, it shall constitute the list of candidates to be recommended for graduation upon the completion of the work required for their respective degrees. No change shall be made in this list unless ordered by a two-thirds vote of the members of the faculty present. Applicants who are late in filing their applications cannot be assured of recommendation to the faculty, or of consideration of petitions for modification of requirements. In determining the fitness of a candidate for a degree, his attitude towards his financial obligations shall be taken into consideration.

*Two Degrees May Be Conferred.*—The degrees of A. B. and A. M.; B. S. and M. S., or two different bachelor's degrees, may be granted at the same time. In all such cases a minimum of fifteen quarters shall have been occupied in the work for two degrees.

### VIII. GENERAL REGULATIONS

*Examinations.*—Examinations shall be held at the close of each quarter in all courses at the last scheduled class-hour of the quarter, and also at the next preceding class hour, if desired; except in laboratory courses, when the last laboratory period may be used as a substitute or in addition. A student desiring to be absent from his scheduled examinations must before leaving college, present to the instructors concerned permission from his dean to be absent. The postponed examination may be taken under the following conditions:

1. The student shall pay a fee of \$1 at the comptroller's office and get a receipt for same;
2. The student shall present this receipt to the registrar, who shall issue a card entitling the student to the examination;
3. The student shall present this card to the instructor concerned and shall take the delayed examination at a time approved by the instructor. No instructor need give more than one special examination in any one subject in any quarter.

*Advanced Credit by Examination.*—With the approval of the instructor concerned, a student may be examined for advanced credit in work that he has not followed in a college class at the University. Credits and grades so obtained must be certified by the examiner and the registrar, and shall not be given for work done while the student is in residence. A student desiring to take an examination for advanced credit must first file an application and obtain a permit at the registrar's office. Special claims for advanced credit based on credentials are passed on by a committee consisting of the registrar and the dean of the college concerned.

*Withdrawal from Courses.*—Withdrawal is the voluntary severance by a student of his connection with a course or with the University and is indicated on the registrar's books by a "W". During the first four weeks of a quarter a student may withdraw from a course and be given a "W" with the written consent of his dean and his instructor. If he desires to withdraw at a later period, he may do so, but if his work has not been satisfactory he shall be given an "E" instead of a "W". If a withdrawal in either case will reduce the student's hours below 12, it must be approved by his dean. A student who drops a course without withdrawing shall be given an "E" in the course.

*Incompletes.*—An incomplete is given only in case the student has been in attendance and done satisfactory work to within two weeks of the close of the quarter and has had a leave of absence from his dean. The two-week limit may be extended to three weeks in emergency cases. (This extension of time shall not apply to one-term summer courses).

An incomplete in a course is convertible into a passing grade only during the next quarter in which the student is in residence, and provided the work of the course shall have been completed in a satisfactory manner. In special and rare cases removal of an incomplete may be deferred by the dean.

*Hyphenated Courses.*—In these courses the examination on the work of the first quarter is provisional, final credit not being given until the examination for the entire course has been passed. Except in rare cases, the completion of the work of an earlier division of hyphenated courses is prerequisite to the later sections. In the "Departments of Instruction" such courses are indicated by course numbers connected by hyphens.

*Leave of Absence.*—A leave of absence from the University involving excuses from classes, may be granted by the dean concerned except as hereinafter provided:

1. Leaves of absence on account of sickness shall be granted by the University health service, and shall be taken personally to the instructors concerned. Students absent on account of sickness shall not be re-admitted to classes without this written excuse. The University health service shall file a copy of these leaves of absence with the registrar.
2. Leaves of absence from one class period with the exception of cases included in (1) may be granted by instructors.
3. Leave of absence from the University for recognized student activities (athletics, music, debate, etc.) shall be passed on by the dean of men and the dean of women respectively.

*Departments of Instruction.*—All courses of study offered in the University are listed and briefly described in the section known as Departments of Instruction. This is also published as a separate bulletin. To it the student is referred for all information in regard to courses.

## IX. PRE-JOURNALISM CURRICULUM

*Admission.*—Students entering the School of Journalism by way of the College of Liberal Arts must complete 90 scholastic credits, including the lower division requirements of the college, together with the required ten credits in military science or physical education.

*Adviser.*—From the beginning of the freshman year, the adviser for pre-journalism students is the dean of the School of Journalism, or such persons as he may designate.

*Requirements.*—The courses with a double dagger listed below are those required of pre-journalism students during the first two years. Those marked with a single dagger are regarded as essential. Others are suggested electives. These courses are arranged in the order in which they should normally follow each other.

FIRST YEAR <sup>1</sup>			
	Credits		Credits
Arch. 3. Appreciation.....	2	Jour. 1. Jour. as a Profession.....	1
Econ. 1. †Gen. Econ.....	5	Lib. Arts 1. †Intro. to Mod. Thought...	5
15. †Typewriting.....	0	†Mil. Sci. or Phys. Ed.....	5
English 1. †Comp.....	5	Pol. Sci. 1. †Comparative Gov't.....	5
64, 65. †Lit. Backgrounds <sup>2</sup> .....	10	Science.....	15
Hist. 5-6. Eng. Pol. & Soc. Hist.....	10	Soc. 1. †Intro. Soc.....	5

<sup>1</sup> If a student has not had in high school the sciences prescribed for junior standing in Liberal Arts, he is required to take ten hours of chemistry or physics and ten hours of botany or geology or zoology in the University. Students entering without foreign language are required to take twenty hours of a foreign language in the University without credit.

<sup>2</sup> English 66 may be substituted for either English 64 or English 65.



SECOND YEAR			
Credits			Credits
Arch. 112, 113. Freehand Dr.....	4	‡Mil. Sci. or Phys. Ed.....	5
Econ. 103. Money and Banking.....	5	Music 13. Appreciation.....	5
50. Graph. & Tab. Anal. of Bus.....	5	6. Hist. of Music.....	4
61. Soc. & Econ. Stan'ds of Liv....	5	Latin 11. ‡Roman Civ. <sup>1</sup> .....	5
62, 63. Accounting.....	10	Phil. 5. Intro. to Logic <sup>2</sup> .....	5
106. Econ. of Markets.....	5	Psychology 1. ‡Gen. Psychology.....	5
18, 19. Shorthand I and II.....	0	Science.....	15
English 67, 68, 69. ‡Great Am. Writers	6	Sociology 56. Family Life.....	3
For. Lang. ....	10	57. Child Welfare.....	3
Greek 11. ‡Greek Civ. <sup>3</sup> .....	5	62. Play & Leisure Time.....	3
Hist. 57-58-59. ‡Hist. of the U.S.....	9	68. Community Organ.....	5
71-72-73. Ancient Hist.....	9	71. Immigration.....	5
Jour. 51. ‡News Writing.....	5		
61. ‡Community Newspaper.....	3		

### X. PRE-LAW CURRICULUM.—TWO-YEAR COURSE

**Admission.**—To be admitted from the College of Liberal Arts to regular standing in the Law School students who are candidates for the LL. B. degree only, must have earned 90 credits and have completed the requirements of the lower division prescribed for the College of Liberal Arts on page 79.

**Transfer Students.**—Students who transfer from other institutions with advanced standing, but who have had less than two full years of Liberal Arts credit in their respective institutions, and who are not entitled to 90 liberal arts credits in accordance with the credit computation system of this University, nor have completed the requirements of the lower division of the College of Liberal Arts of this University, or their equivalent, must satisfy all of the local requirements before they will be admitted to the Law School. Students who transfer from other institutions with advanced standing, and who have had at least two full years of liberal arts credit in their respective institutions and are entitled to 90 liberal arts credits, more or less, in accordance with the credit computation system of this University, but who have not completed the requirements of the lower division of the College of Liberal Arts of this University, or their equivalent, may be held to earn such additional liberal arts credits as the dean of the Law School may impose as a condition for entrance to, or graduation from, the Law School. The object of this provision is, with proper regard for comity between institutions of higher learning, to bring about a fair and reasonable leveling between the preliminary training offered by students from this University and that offered by students from other institutions.

**Required Courses.**—It is of first importance that in general the required courses, when available, should be those first registered for. By this means a student will more easily avoid conflicts which, later on, may preclude him from completing the required courses in his two or three year pre-law curriculum.

**English Recommendation.**—Pre-Law students are urged to take additional courses in English, especially advanced composition courses, to fit them for the correct writing and speaking of English, which is increasingly demanded of the legal profession.

**Autumn Quarter Entrance.**—The Law School curriculum contemplates entrance in the autumn quarter, and the student enters advantageously only at this time. This is of such importance that in cases where there are only a few deficiencies, they should, if possible, be removed during the intervening summer quarter, or through the Extension Department.

<sup>1</sup> Students who have taken, or who plan to take, three or more years of ancient language, may omit this requirement. Greek 13 or Latin 13 may be substituted respectively for Greek 11 or Latin 11.

<sup>2</sup> Philosophy 1 or Philosophy 3 may be substituted for this requirement.

*Adviser.*—From the beginning of the freshmen year the adviser for pre-law students is the dean of the School of Law, or such persons as he may designate.

*Electives.*—The requirements of the lower division will not make a total of 90 credits. In choosing electives, the student is advised not to specialize in any particular subject or group, but rather to take one or two courses in each or several of the various groups. For a broad general training, the following are recommended:

Anthropology 51	Sociology 1
Astronomy 1	English 38, 40
Liberal Arts 1, 11	English 51, 52, 53
B. A. 65	English 54, 55, 56
B. A. 15, 16	English 64, 65, 66
B. A. 1, 2	English 73, 74, 75
Political Science 1	History 105, 106, 107
Political Science 118	History 108, 109, 110
Political Science 119, 120	

#### XI. PRE-LAW CURRICULUM—THREE-YEAR COURSE

*Combined Six-Year Arts-Law Course.*—It is possible to obtain the degrees of bachelor of arts and bachelor of laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the two-year pre-law course, with the additions hereafter stated. To have the benefit of this combined course, students must maintain a uniformly good record and must, in the first three years, earn 144 liberal arts credits, together with the ten credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Department, if necessary. At the beginning of the fourth year, if a student has earned 144 credits, and ten credits of required military science or physical education, he may enter the School of Law, and there earn 36 credits which will be counted toward his bachelor of arts degree. He will be granted the bachelor of arts degree at the end of the fourth year, or as soon as he completes the required work above specified and 36 credits in the School of Law, with a uniformly good record; making a total of 190 credits for graduation in liberal arts. The degree of bachelor of laws will be conferred upon completion of his work in the Law School.

*Selection of Major.*—In the 144 credits must be included a major of at least 36 credits, together with all the requirement of the lower division. At least one-half of the credits in the major must be earned in upper division courses. The major must be selected by the students taking the combined six-year course upon acquiring junior standing (which is usually at the commencement of their third year of liberal arts study), pursuant to the regulations relating to majors prescribed for the College of Liberal Arts on page 80. Any of the majors there enumerated may be profitably pursued by pre-law students.

*Transfer Law Students.*—Students from other institutions entering this University with advanced standing may take advantage of this combined six-year course, provided they are registered in the College of Liberal Arts for at least one full year of work, and earn at least 45 credits in the University before entering the School of Law. This privi-

lege will not be extended to normal school graduates attempting to graduate in two years, nor to undergraduates of other colleges who enter this University with the rank of senior.

*Upper Division Courses.*—As one of the requirements for the B. A. degree is 60 credits earned in upper division courses, and as the 36 credits of Law which in the combined arts-law course may be counted towards this degree, are all upper division credits, it follows that at least 24 of the 144 referred to must also be in upper division courses.

## XII. PRE-LIBRARY CURRICULUM

*Admission.*—Students entering the Library School by way of the College of Liberal Arts must fulfill all of the entrance and lower division requirements of the college (see pages 76-79.) They must have a total of 145 credits, including the equivalent of at least 20 credits each of two modern foreign languages; French and German preferred. The student entering the school should be a typist of accuracy and fair speed. The Library School advises (and shall later probably require) that each student shall have had before entering the school at least one month's actual experience in a well conducted library. The Dean of the Library School will be glad to assist any candidate for entrance to obtain this practical experience. Persons beyond thirty years of age are advised not to enter the school unless they have already had experience in library service.

*Adviser.*—From the beginning of the freshman year, the adviser for pre-library students is the dean of the Library School, or such persons as he may designate.

*Scholarship.*—Students doing an inferior grade of work will be advised to discontinue work in the Library School. Grades below an average of B minus or C plus are too low.

*Requirements.*—A suggested curriculum for pre-library students is given below. The courses are arranged in the order in which they should normally follow each other. Those with a double dagger are required; those with a single dagger are strongly recommended; others are suggested electives.

FIRST YEAR			
Credits		Credits	
English 11-2. Composition, unless exempted by examination.....	10	Music 13. Appreciation.....	5
70, 71, 72. Shakespeare.....	9	*Mod. Lang. †French or German.....	15
64, 65, 66. Lit. Backgrounds.....	9	Psychology 11. General.....	5
*History 1-2. Medieval and Modern.....	10	Lib. Arts 1. Intro. to Mod. Thought... 5	
5-6. Eng. Pol. and Social.....	10	Arch. 3. Appreciation.....	2
*Science. Bot., Geol. or Zool.....	10	*Latin †11, 13. Rom. Civ. and Lit.....	10
SECOND YEAR			
Credits		Credits	
*Mod. Lang. †Fourth yr. of foreign language previously taken.....	5	*Pol. Sci. 11. Comparative Gov't.....	5
Begin other lang. required by Library School.....	10	Sociology 11. Introduction.....	5
*History †57-58-59. United States.....	9	62. Play and Leisure Time.....	3
*Greek †15-16. Civilization.....	10	Econ. †Introduction.....	5
Anthropology 51. Evol. of Civ.....	5	7. Geog. Background of Industry.... 5	
Zoology 16. Evolution.....	2	61. Social and Econ. Standards.... 5	
17. Eugenics.....	2	Lib. Arts †11. Intro. to Fine Arts... 5	
		*Oriental Studies, 50, 51, 52. Orient. Lit. ....	10

\* This requirement may be satisfied by the first course in each of two of these (Econ., Soc., or Pol. Sci.), or the first course in any one of them together with five credits in another course for which the one taken first is a prerequisite.

† These requirements may be satisfied in high school or in college.

‡ The Library School requires twenty hours each of two modern foreign languages, French and German preferred, in either high school or college.

§ Students who have taken, or plan to take three or more years of ancient language may omit this requirement. Classical language requirement may be satisfied by either Latin or Greek.

## THIRD YEAR

Credits		Credits	
Mod. Lang. Complete Library School		Oriental Studies 114, 115, 116. Hist.	
Requirement .....	10	of Religion .....	9
Phil. #1, 2 or 3. Introduction.....	5	120. Prob. Eastern Asia and Pac....	5
History 125. Turkey and Near East....	5	English †134. Reformation in Eng....	3
†120. Europe, 1814-1870.....	5	†137. 19th Cent. Prose.....	3
†131. Europe Since 1870.....	5	†164, 165, 166. Am. Lit. From 1870	9
Pol. Sci. 122. Foreign Affairs.....	3	174, 175. 19th Cent. Poetry.....	6
123. Intern. Relations.....	3	*Sci. Phys. 1-2 or Chem. 1-2, or 5-6....	10
156. European Gov. & Pol. Insts....	3	German 106, 108. Ger. Lit. in Tr....	5
161, 162, 163. Governments.....	15	Rom. Lang. 118, 119, 120. Survey	
†101. Constitutional Gov. in U.S. and		Fr. Lit. ....	9
Washington .....	2	†181, 182, 184. Ital. Lit. in Tr....	6
		Scand. Lit. 109, 110, 111. Mod. Auth.	3
		180, 181, 182. Recent Lit.....	6

*Graduation.*—The degree of bachelor of science in library science is granted upon satisfactory completion of 45 credits in the Library School.

## XIII. PRE-EDUCATION CURRICULUM

*Admission.*—Pre-education students must fulfill all the lower division requirements of the College of Liberal Arts, (see page 79) and it is urged that those requirements be worked off as soon as possible.

*Adviser.*—From the beginning of the freshman year, the adviser for pre-education students is the Dean of the School of Education, or such persons as he may designate. The needs of public high school teachers may be roughly classified into the following four groups. The first two of these groups the purposeful student may confidently begin to meet in the freshman and sophomore years by supplementing the Liberal Arts requirements. The third and fourth groups are in the main open to juniors and seniors only.

1. *General Preparation.*—High school teachers should have a broad acquaintance with those liberalizing studies that give (1) knowledge of, and (2) appreciative insight into the nature, evolution, achievements, and problems of civilization, and especially with regard to their own society. Both the highest usefulness of the teacher and his satisfaction in his work are affected heavily by the breadth and the quality of his general education.

Breadth of education, however, is still compatible with an early intentional focusing which will give to scholarship a certain weight of close relevancy to the peculiar responsibilities of the teacher. Within the limits set by the academic organization of the departments and colleges, which in a University must attempt both to make scholars and to contribute to the special ends of professional schools, it is still possible for the prospective teacher to make choice of courses which will enhance his pleasures in his work and his value to his students. Among the courses now open to freshmen and sophomores, the following are suggested as having large potential bearing on the making of a teacher:

## FRESHMAN YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Political Science 1.....	5	History 6 .....	5	Psychology 1 .....	5
History 5 .....	5	English 65 .....	5	English 66 .....	5
English 64 .....	5	Liberal Arts 1 .....	5	Zoology 17 .....	2
Zoology 16 .....	2	Geology 1a, 1b.....	5	Geology 2 .....	5
		Sociology 1 .....	5	English 40 .....	5

## SOPHOMORE YEAR

History 57 .....	3	History 58 .....	3	History 59 .....	3
Geology 10 .....	5	Anthropology 51 .....	5	Education 101 .....	5
				Political Science 53 .....	3
		Philosophy 2 .....	5 or	Philosophy 3 .....	5

2. *Preparation in Teaching Subjects.*—The teacher must have the firm grasp of the subjects in which he is to give instruction that will insure him an easy mind and set him free to study the difficulties met by beginners in his field of knowledge. Beyond this it is desirable for him to have courses that will set his subject in its social or cultural context, showing in general how his field has grown and what its development has meant to civilization; and whenever possible to sample the more closely related fields.

The rounding out of a teacher's education usually has to be left to graduate study, however. In the beginning each prospective teacher should prepare to give instruction in at least two subjects. It is impossible to give sound preparation for more; and results are better when these two subjects reinforce each other: as physics and chemistry, English and Latin, Latin and French or Spanish, history and political science or sociology.

However, the demands of superintendents are often not determined with reference to recognized principles of the professional education of teachers so much as by the exigencies of a chance need in their own system. Hence they may call for such combinations as home economics and English; manual training and physical education; mathematics and Latin; physical education and history; chemistry, physics and biology.

In general, however, such combinations as mathematics and physical sciences, English and history, physical science and biology, home economics and general science, Latin and French or Spanish, Latin and English, English and history, art and music seem to be the most feasible.

Last year there seemed to be an oversupply in English, in history and in the social sciences; an undersupply in commercial branches, and a general shortage of teachers who could combine with some firmly established subject some form of extra-curricular activity, such as coaching, for example.

Finally, "a poor or unpleasing, or unattractive personality" is, about as common a difficulty as "insufficient special scholarship." Teachers must be in the group of human beings who are better than average in personality.

3. *Professional Preparation.*—The courses offered in the School of Education are intended to give the prospective teacher the training which he will need in professional subjects.

The specific requirements for the normal diploma, which is a requirement for all high school teachers in the state of Washington, and to which all students in any college are eligible are: Education 101 or Education 102 (open to sophomores who have earned 65 hours), Education 119, 140, 145, and 160.

Students anticipating high school teaching are urged to take Education 101 or Education 102 as sophomores if they have earned 65 credits in college courses. It is a prerequisite to all other courses in education for all students except college graduates and students entering from normal school. Courses 119 and 140 should be taken during the junior year. These courses are prerequisite to Education 145 (practice teaching) which should be planned for the autumn or winter terms of the senior year. Placements for the spring term in the city schools are limited. The School of Education bulletin should be consulted for complete details concerning requirements for the normal diploma and for the proper arrangement of education courses to meet those requirements adequately.

4. *Supplementary Professional Preparation.*—Here fall courses offered chiefly in the School of Education and the department of psychology, but supplemented, usefully at points, by courses available in the departments of bacteriology, sociology, zoology and home economics.

#### COURSES OF STUDY

For description of courses see Departments of Instruction section.

# COLLEGE OF SCIENCE

## THE FACULTY, 1927-28

Matthew Lyle Spencer, Ph.D. (Chicago).....	<i>President</i>
David Thomson, B.A. (Toronto).....	<i>Dean of Faculties</i>
Theodore Christian Frye, Ph.D. (Chicago).....	<i>Professor of Botany</i>
Trevor Kincaid, A.M. (Washington).....	<i>Professor of Zoology</i>
Frederick Arthur Osborn, Ph.D. (Michigan).....	<i>Professor of Physics</i>
Robert Edouard Moritz, Ph.D. (Nebraska), Ph.N.D. (Strassburg).....	<i>Professor of Mathematics</i>
David Connolly Hall, Sc.M., M.D. (Rush Medical College).....	<i>Professor of Hygiene and University Health Officer</i>
Henry Kreitzer Benson, Ph.D. (Columbia).....	<i>Professor of Industrial Chemistry</i>
John Weinzirl, Dr.P.H. (Harvard).....	<i>Professor of Bacteriology</i>
Effie Isabel Raitt, A.M. (Columbia).....	<i>Professor of Home Economics</i>
Stevenson Smith, Ph.D. (Pennsylvania).....	<i>Professor of Psychology</i>
William Maurice Dehn, Ph.D. (Illinois).....	<i>Professor of Organic Chemistry</i>
George McPhail Smith, Ph.D. (Freiburg).....	<i>Professor of Inorganic Chemistry</i>
Charles Edwin Weaver, Ph.D. (California).....	<i>Professor of Geology</i>
John Locke Worcester, M.D. (Med. School University of Alabama).....	<i>Professor of Anatomy</i>
Harry T. Matthews, Colonel, C.A.C. LL.B. (George Washington, St. Louis)...	<i>Professor of Military Science and Tactics</i>
Roy Martin Winger, Ph.D. (Johns Hopkins).....	<i>Professor of Mathematics</i>
Allen Fuller Carpenter, Ph.D. (Chicago).....	<i>Professor of Mathematics</i>
James Perdue Olding, Commander, U.S.N.....	<i>Professor of Naval Science</i>
Herman Vance Tartar, Ph.D. (Chicago).....	<i>Professor of Chemistry</i>
Henry Louis Brakel, Ph.D. (Cornell).....	<i>Associate Professor of Engineering Physics</i>
George Burton Riggs, Ph.D. (Chicago).....	<i>Associate Professor of Botany</i>
Thomas Gordon Thompson, Ph.D. (Washington).....	<i>Associate Professor of Chemistry</i>
Grace Goldena Denny, M.A. (Columbia).....	<i>Associate Professor of Home Economics</i>
Samuel Herbert Anderson, Ph.D. (Illinois).....	<i>Associate Professor of Physics</i>
Edwin R. Guthrie, Ph.D. (Pennsylvania).....	<i>Associate Professor of Psychology</i>
Mary Emma Gross, A.M. (Columbia).....	<i>Associate Professor of Physical Education for Women</i>
John Earl Guberlet, Ph.D. (Illinois).....	<i>Associate Professor of Zoology</i>
George Irving Gavett, B.S. (C.E.) (Michigan).....	<i>Associate Professor of Mathematics</i>
Erwin A. Esper, Ph.D. (Ohio State University).....	<i>Associate Professor of Psychology</i>
George T. Renner, Ph.D. (Columbia).....	<i>Associate Professor of Geography</i>
W. H. McCurdy, Ph.D. (Princeton).....	<i>Associate Professor of Physics</i>
Ell Victor Smith, Ph.D. (Northwestern).....	<i>Assistant Professor of Zoology</i>
John William Hotson, Ph.D. (Harvard).....	<i>Assistant Professor of Botany</i>
Lewis Irving Neikirk, Ph.D. (Pennsylvania).....	<i>Assistant Professor of Mathematics</i>
George Edward Goodspeed, Jr., B.S. (Mln.E.) (Massachusetts Institute of Technology).....	<i>Assistant Professor of Geology</i>
James George Arbuthnot, B.S. (Kansas State College).....	<i>Assistant Professor of Physical Education for Men</i>
Royal Kemp Greene, Major, C.A.C., (Grad. U. S. Military Academy).....	<i>Assistant Professor of Military Science and Tactics</i>
Henry C. K. Muhlenberg, Major, Air Service, (Grad U. S. Military Academy)....	<i>Assistant Professor of Military Science and Tactics</i>
Otto Harry Schrader, Major, C.A.C., B.S. (E.E.) (Purdue).....	<i>Assistant Professor of Military Science and Tactics</i>

Keith Sumner Gregory, Major, Infantry, (Grad., U. S. Military Academy).....	Assistant Professor of Military Science and Tactics
Hugh D. Adair, Captain, Infantry, (Grad., Wentworth Military Academy).....	Assistant Professor of Military Science and Tactics
Berneice Wait, A.M. (Illinois).....	Assistant Professor of Home Economics
Rachel Emille Hoffstadt, D.Sc. (Johns Hopkins).....	Assistant Professor of Bacteriology
Robert Cunningham Miller, Ph.D. (California).....	Assistant Professor of Zoology
Lyman Crowell Boynton, Ph.D. (Columbia).....	Assistant Professor of Chemistry
Evan K. Meredith, Captain of Infantry.....	Assistant Professor of Military Science and Tactics
Elizabeth Anne Rivers, M.A. (Columbia)...	Acting Assistant Professor of Home Economics
Sargent G. Powell, Ph.D. (Illinois).....	Assistant Professor of Chemistry
Laurin L. Williams, Captain Infantry, A.B. (Yale).....	Assistant Professor of Military Science and Tactics
John Perry Ballantine, Ph.D. (Chicago).....	Assistant Professor of Mathematics
Eric Lloyd Barr, Lieutenant Commander, U.S.N.....	Assistant Professor of Naval Science
Herman Zanstra, Ph.D. (Minnesota)....	Assistant Professor of Astronomy and Mathematics
Paul Hildreth Rice, Lieutenant Commander, U.S.N., (U.S. Naval Academy).....	Assistant Professor of Naval Science and Tactics
Ruth Margaret Lusby, A.M. (Columbia)....	Assistant Professor of Institutional Management
Martha Dresslar, M.S. (Columbia).....	Assistant Professor of Home Economics
Clinton L. Utterback, Ph.D. (Wisconsin).....	Assistant Professor of Physics
Henry M. Foster, A.M. (Columbia)....	Assistant Professor of Physical Education for Men
Melville H. Hatch, Ph.D. (Michigan).....	Assistant Professor of Zoology
Blanche Payne, A.M. (Columbia).....	Assistant Professor of Home Economics
Lee H. McFarlan, Ph.D. (Missouri).....	Assistant Professor of Mathematics
Gustaf Alfred Magnusson, M.D. (Minnesota).....	Lecturer on Clinic Diagnosis
Minnie Bell Burdon, M.D. (Oregon).....	Lecturer on Hygiene
Ethel Sanderson Radford, A.B. (McGill).....	Associate in Chemistry
Elizabeth S. Soule, R.N. (Malden, Massachusetts, Hospital School of Nursing and Public Health), A.B. (Washington).....	Associate in Nursing and Public Health
Clarence Edmundson, B.S. (Idaho).....	Associate in Physical Education
Enoch Bagshaw, B.S. (M.E.) (Washington).....	Associate in Physical Education
Arthur Rudolph Jerbert, M.S. (Washington).....	Associate in Mathematics
Russell Stanley Callow, A.B. (Washington).....	Associate in Physical Education
Dorsett Graves (Missouri).....	Associate in Physical Education
Wayne Sutton, A.B. (Washington).....	Associate in Physical Education
Kirby E. Jackson, M.S. (Vanderbilt University).....	Associate in Chemistry
Leone Helmich, B.S. (Washington).....	Associate in Physical Education
Marion Marguerite Martin, B.S. (Columbia).....	Associate in Physical Education
Earle Wesley House, A.B. (Wyoming).....	Associate in Chemistry
Ralph Harrelson Gundlach, A.M. (Washington).....	Associate in Psychology
Louis Marrick, M.S. (Washington).....	Associate in Physics
Ruth Swingle, M.A. (Washington).....	Associate in Bacteriology
Christian Hildebrand, 1st. Lieutenant, Infantry (U.S. Military Academy)....	Instructor in Military Science and Tactics
Mary Aid, A.B. (Wisconsin).....	Instructor in Physical Education
Matilda Jane McGownd, A.M. (Columbia).....	Instructor in Physical Education
Hermane Mullmeister, Ph.D. (Royal University of Utrecht, Holland).....	Instructor in Mathematics
*Clyde Myron Cramlet, Ph.D. (Washington).....	Instructor in Mathematics
Victorian Sivertz, Ph.D. (McGill).....	Instructor in Chemistry
Phoebe E. Mentzer, M.S. (Iowa State College).....	Instructor in Zoology
Dean Luce, 1st Lieutenant, C.A.C.....	Instructor in Military Science

\*Absent on leave 1927-28.

## GENERAL INFORMATION

The student entering the College of Science may take up one of several curricula, general or specialized, with emphasis on pure or applied sciences. These curricula, as set forth in detail in succeeding pages, are:

- I. Elective curricula, for students desiring general training in science, leading to the degree of bachelor of science.
- II. Required curricula, for students desiring to specialize in one department, or to obtain professional training, leading to the degree of bachelor of science, in one of the following subjects:

A. Bacteriology	E. Mathematics
B. Biology	F. Military Science
C. Chemistry	G. Physics
D. Geology	
- III. Required curricula in group majors leading to the degree of bachelor of science:
  - A. For prospective teachers
  - B. Combined Science and Law
  - C. Library Science
  - D. Pre-Library
- IV. Prescribed curricula in vocational subjects:

A. Pre-medical	C. Home Economics
B. Nursing	D. Physical Education for Women
- V. One-year course leading to certificate in Public Health Nursing.

## LABORATORIES

The University of Washington has laboratories fully equipped for work in anatomy, astronomy, botany, chemistry, (including separate laboratories devoted to general chemistry, analytical chemistry, food inspection and analysis, physiological, industrial and pharmaceutical chemistry), geology, psychology, physics and zoology.

The Bureau of Testing of the department of physics is being rapidly equipped to meet the demand for accurate calibration and testing of scientific instruments. Standards of the bureau will be calibrated by the National Bureau of Standards at Washington, D. C. The bureau is prepared to calibrate direct and alternating current instruments, determine candle power of lamps, measure temperature, both high and low, and, to a limited extent, to standardize weights. Persons desiring to have work done should address the director, Frederick A. Osborn.

## REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.



*Special Requirements of the College of Science.*—In addition to three units of English and two units of mathematics required of all students for admission to the University, two units of a foreign language are required for admission to the College of Science. The student expecting to enter this college is advised to take as many as possible of the subjects specified on a succeeding page among "Subjects required either in a secondary school or in the University," careful observance of which will furnish a more complete preparation for college work, and give correspondingly greater freedom of election in college.

## CURRICULA

### I. ELECTIVE CURRICULA

The student selecting these curricula must choose one department of the College of Science, in which he proposes to do the preponderance of his work. This department will be known as his major department and the subject as his major subject. If possible, the student should choose his major subject at the time of entrance.

To secure the degree of bachelor of science in this division of the college, a student must earn 190 credits, observing the restrictions in regard to a major subject, scholarship requirements, and electives in other colleges.

#### A. REQUIREMENTS IN A MAJOR SUBJECT

A student must earn not less than 36 nor more than 60 credits in his major department. Not more than 96 credits will be accepted in the major and any other one department.

#### B. DISTRIBUTION OF REQUIRED WORK

At least 60 of the scholastic credits presented for the degree of bachelor of science must be in the courses numbered above 100, and 18 such credits must be in the major subject. Requirements for graduation are as follows:

#### 1. *Subjects in Secondary Schools*

- (a) English, three years.
- (b) Elementary algebra, one year.
- (c) Plane geometry, one year.
- †(d) One foreign language, two years.

#### 2. *Subjects Required Either in Secondary School or in the University:*

- (e) United States history and civics, one year in high school or ten credits in the University.
- (f) History in addition to (e), one year or ten credits.
- (g) Mathematics, geology\*, or astronomy, one year or ten credits.
- (h) Chemistry, one year or ten credits.
- (i) Physics, one year or ten credits.
- (j) Botany or zoology, one year or ten credits.
- (k) The student must obtain a certificate of proficiency in English from the department of English, after examination, or must earn 10 credits in English composition in the University.

† If a student has not taken in high school the amount of foreign language required for admission to the college that he plans to enter, he must make up the deficiency in the University as part of his regular schedule of work, but without receiving college credit for it. For the College of Science, the foreign language requirement may be satisfied by two units, or 20 credits, in any one foreign language.

\*Physiography (with laboratory work) taken in a high school will be accepted instead of geology.

3, *Subjects Required in the University:*

- (1) Physical education, or military science, two years.  
 (m) Economics, history, language, and literature, philosophy, political science, psychology, sociology, 20 credits, but only ten credits will be counted in any one of these subjects.

## C. ELECTIVES

Students selecting these curricula may complete their courses with electives from any school or college of the University. Electives in engineering, fine arts, fisheries, forestry, law, mines, and pharmacy, must not exceed 36 credits in all, and must not exceed 25 credits from any one of these colleges.

## II. CURRICULA IN THE VARIOUS DEPARTMENTS

A minimum of 190 credits is required for graduation from any of these curricula.

## A. BACTERIOLOGY

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	English 2 or electives..	5	Psychology 1 .....	5
Chemistry 1 .....	5	Chemistry 2 .....	5	Chemistry 23 .....	5
Zoology 1 or 8 .....	5	Zoology 2 or 4 .....	5	Sociology 1 .....	5
Mil. Sci. or Phys. Ed...1%		Mil. Sci. or Phys. Ed...1%		Mil. Sci. or Phys. Ed...1%	

## SECOND YEAR

Bacteriology 101 .....	5	Bacteriology 102 .....	5	Bacteriology 103 .....	5
Chemistry 131 .....	5	Chemistry 132 .....	5	Chemistry 111 .....	5
Anatomy 105 .....	6	Anatomy 106 or 102... 6		Anatomy 107 or 103.... 6	
Mil. Sci. or Phys. Ed...1%		Mil. Sci. or Phys. Ed...1%		Mil. Sci. or Phys. Ed...1%	

## THIRD YEAR

Bacteriology 104 .....	5	Bacteriology 105 .....	5	Bacteriology 106 .....	5
Physics 1 .....	5	Physics 2 .....	5	Physics 3 .....	5
Electives .....	5	Electives .....	5	Electives .....	5

## FOURTH YEAR

Bacteriology 120 .....	5	Bacteriology 121 .....	5	Bacteriology 112..... 5	
Electives .....	10	Electives .....	8	Bacteriology 122 .....	5
		Pol. Sci. 101..... 2		Electives .....	5

## B. BIOLOGICAL SCIENCES

In this curriculum the student must select a major in anatomy, botany, or zoology. On selecting his major subject, the student should at once consult his major department, a member of which will act as his advisor. The advisor will plan a special curriculum for the student, fitting him for his chosen work. This curriculum must be submitted to the dean of the College of Science for approval. Thereafter the individual curriculum can be changed only with consent of the advisor and the dean.

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	English 2 or Electives...	5	Mathematics or Elective. 5	
Botany or Zoology..... 5		Botany or Zoology..... 5		Electives .....	10
Electives .....	5	**Mathematics or Elect.. 5			
Mil. Sci. or Phys. Ed...1%		Mil. Sci. or Phys. Ed...1%		Mil. Sci. or Phys. Ed...1%	

\*\* Two and one-half years of mathematics required, which may be taken in high school or University.

## Curricula

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## SECOND YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Chemistry or Physics... 5		Chemistry or Physics... 5		Major . . . . . 5	
Major . . . . . 5		Major . . . . . 5		Electives . . . . . 10	
Electives . . . . . 5		Electives . . . . . 5		Min. Sci. or Phys. Ed...1%	
Min. Sci. or Phys. Ed...1%		Min. Sci. or Phys. Ed...1%			

## THIRD YEAR

Major . . . . . 5	Major . . . . . 5	Major . . . . . 5
Soc., Pol. Sci. or Econ... 5	Soc., Pol. Sci. or Econ... 5	Electives . . . . . 10
Electives . . . . . 5	Electives . . . . . 5	

## FOURTH YEAR

Major . . . . . 5	Major . . . . . 5	Electives . . . . . 13
Electives . . . . . 10	Electives . . . . . 10	Pol. Sci. 101..... 2

## C. CHEMISTRY

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Chemistry 1 or 21... 5		Chemistry 2 or 22... 5		Chemistry 23 . . . . . 5	
Mathematics 4 . . . . . 5		Mathematics 5 . . . . . 5		Mathematics 6 . . . . . 5	
English 1 . . . . . 5		English 2 or Electives. 5		Electives . . . . . 5	
Min. Sci. or Phys. Ed...1%		Min. Sci. or Phys. Ed...1%		Min. Sci. or Phys. Ed...1%	

- Options:  
 (a) Geology or Mineralogy.  
 (b) Mechanical Drawing.  
 (c) Biological Science.

## SECOND YEAR

Chemistry 109..... 5	Chemistry 110..... 5	Chemistry 101..... 5
Physics 1 or 97..... 5	Physics 2 or 98..... 5	Physics 3 or 99..... 5
Mathematics 61 . . . . . 3	Mathematics 62 . . . . . 3	Electives . . . . . 5
Electives . . . . . 2	Electives . . . . . 2	Min. Sci. or Phys. Ed...1%
Min. Sci. or Phys. Ed...1%	Min. Sci. or Phys. Ed...1%	

## THIRD YEAR

Chemistry 131 . . . . . 5	Chemistry 132 . . . . . 5	Chemistry 133 . . . . . 5
Electives . . . . . 5	Electives . . . . . 5	Electives . . . . . 5
Group Options	Group Options	Group Options
(a) General—	(a) General—	(a) General—
Electives . . . . . 5	Electives . . . . . 5	Electives . . . . . 5
(b) Industrial	(b) Industrial	(b) Industrial
Chemistry 121 . . . . . 5	Chemistry 122 . . . . . 5	Chemistry 123 . . . . . 5
(c) Biochemical	(c) Biochemical	(c) Biochemical
Physiology 151 or	Physiology 152 or	Physiology 153 or
Bacteriology 101.... 5	Bacteriology 102.... 5	Bacteriology 103.... 5

## FOURTH YEAR

Chemistry 181 . . . . . 5	Chemistry 182 . . . . . 5	Chemistry 183 . . . . . 5
Electives . . . . . 2	Electives . . . . . 2	
Group Options	Group Options	Group Options
(a) General—	(a) General—	(a) General—
Electives . . . . . 8	Electives . . . . . 8	Electives . . . . . 8
(b) Industrial—	(b) Industrial—	(b) Industrial—
Chem. Eng. 171 . . . 5	Chem. Eng. 172 . . . 5	Pol. Sci. 101..... 2
Chem. Eng. 176 . . . 3	Chem. Eng. 177 . . . 3	Electives . . . . . 8
(c) Biochemical	(c) Biochemical	Pol. Sci. 101..... 2
Chemistry 161 . . . . 5	Chemistry 162 . . . . 5	Chemistry 163 . . . . 3
Chemistry 165 . . . . 3	Chemistry 164 . . . . 3	Electives . . . . . 5
		Pol. Sci. 101 . . . . . 2

<sup>2</sup> Students expecting to elect the industrial group in junior year must take Chemistry 52 the spring quarter of the sophomore year.

<sup>3</sup> In addition to the subjects specifically listed above, 10 credits in either French or German are required, to be completed before the end of the third year.

<sup>4</sup> The History of Chemistry, Chem. 190 and 191 are suggested as electives in either the junior or senior year.

## College of Science

## D. GEOLOGY

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 4 .....	5	English 1 .....	5	English 2 or Elective... 5	
Geology 1a and 1b.....	5	Geology 2 .....	5	Mathematics 6 .....	5
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	

## SECOND YEAR

Physics 1 .....	5	Physics 2 .....	5	Electives .....	5
Chemistry 111 .....	5	Geology 21 .....	5	Geology 120 .....	3
General Engineering 1 ..	3	General Engineering 21 ..	3	Civil Engineering 4 ...	3
Geology 101 .....	3	Electives .....	3	Geology 122 .....	2
Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	

## THIRD YEAR

Geology 123 .....	3	Geology 124 .....	4	Metallurgy 102 .....	5
Botany or Zoology.....	5	Botany or Zoology.....	5	Geology 125 .....	4
Geology 140 .....	3	Geology 118 .....	3	Geology 132 .....	5
Astronomy 1 .....	5	Geology 131 .....	5		

## FOURTH YEAR

Mining 51 .....	3	Geology 127 .....	5	Geology 128 .....	3
Geology 121 .....	3	Thesis .....	2	Geology 117 .....	3
Geology 126 .....	3	Electives .....	8	Thesis .....	2
Thesis .....	2			Electives .....	6
Electives .....	5			Pol. Sci. 101 .....	2

## E. MATHEMATICS

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	English 2 or Electives... 5		History .....	5
Mathematics 4 .....	5	Mathematics 5 .....	5	Mathematics 6 .....	5
*Physics 1 .....	5	*Physics 2 .....	5	Modern Foreign Lang... 5	
Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	

## SECOND YEAR

History .....	5	Economics 1 .....	5	Political Science 1.....	5
Mathematics 107 .....	5	Mathematics 108 .....	5	Mathematics 109 .....	5
Modern Foreign Lang... 5		Chemistry 1 .....	5	Chemistry 2 .....	5
Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	

## THIRD YEAR

## GROUP I—SECONDARY SCHOOL TEACHERS

Psychology 1 .....	5	Philosophy or Logic.... 5		Astronomy 1 .....	5
Biological Science .....	5	Biological Science .....	5	Mathematics .....	2 or 3
Mathematics .....	2 or 3	Mathematics .....	2 or 3	Education 101 .....	5
Electives .....	3 or 2	Electives .....	3 or 2	Electives .....	3 or 2

## GROUP II—COLLEGE AND UNIVERSITY TEACHERS

Psychology 1 .....	5	Philosophy or Logic.... 5		Astronomy .....	5
Biological Science .....	5	Biological Science .....	5	Mathematics .....	4
Mathematics .....	5	Mathematics .....	5	Electives .....	5
Mathematics .....	3				

## GROUP III—STATISTICIANS AND ACTUARIES

Psychology 1 .....	5	Philosophy or Logic.... 5		Astronomy 1 .....	5
Biological Science .....	5	Biological Science .....	5	Mathematics 13 .....	5
Business Ad. 110.....	5	Business Ad. 111.....	5	Electives .....	5

## FOURTH YEAR

## GROUP I—SECONDARY SCHOOL TEACHERS

Education 140 .....	3	Education 119 .....	3	Education .....	3
Education 145 .....	5	Electives .....	10	Electives .....	3
Electives .....	7	Pol. Sci 101.....	2	Education 160M .....	3

\* Students in Group III take Bus. Ad. 62-63 in place of physics.

## GROUP II—COLLEGE AND UNIVERSITY TEACHERS

Mathematics . . . . .	5	Mathematics . . . . .	5	Mathematics . . . . .	5
Electives . . . . .	10	Electives . . . . .	10	Electives . . . . .	8
				Pol. Sci. 101 . . . . .	2

## GROUP III—STATISTICIANS AND ACTUARIES

Mathematics 151 . . . . .	3	Mathematics 152 . . . . .	3	Mathematics 153 . . . . .	3
Political Science 1 . . . . .	5	Business Ad. 147 . . . . .	5	Business Ad. 175 . . . . .	5
Electives . . . . .	7	Electives . . . . .	7	Electives . . . . .	7

## F. FOUR-YEAR CURRICULUM IN MILITARY SCIENCE

For students who desire to major in military science the following four-year curriculum has been provided. This will give a good general college education upon which any line of professional or technical study may be based and will give to the graduate the degree of B.S. in Military Science, and at the same time enable him to obtain a commission as second lieutenant in the Officers' Reserve Corps of the United States Army in accordance with the provisions of the National Defense Act.

## MILITARY SCIENCE

First Year	Credits	Second Year	Credits
Mil. Sci. 1-2-3, all units . . . . .	5	Mil. Sci. 51-52-53 Inf. )	
Math. 1 (Algebra) . . . . .	5	Mil. Sci. 61-62-63 Arty. )	
Math. 2 (Solid Geometry) . . . . .	5	Mil. Sci. 71-72-73 A.S. ) . . . . .	5
Math. 4 (Plane Trigonometry) . . . . .	5	Physics 1-2 or 97, 98 . . . . .	10
General Eng. 7 (Eng. Draw.) . . . . .	3	Chemistry 1-2, or 21-22 . . . . .	10
General Eng. 21 (Plane Surv.) . . . . .	3	French, German or Spanish . . . . .	9 or 10
English 1-2 . . . . .	10	History 57-58-59 . . . . .	9
French, German or Spanish 1-2-3 . . . . .	15	English 40 . . . . .	5

## SUMMER QUARTER—BASIS B. O. T. O. CAMP

Third Year	Credits	Fourth Year	Credits
Military Science 104-105-106) . . . . .		Military Science 154-155-156)	
Military Science 114-115-116)		Military Science 164-165-166)	
Military Science 124-125-126) . . . . .	9	Military Science 174-175-176) . . . . .	9
Philosophy 1, 2, 3 or 5 . . . . .	5	Military Science Thesis . . . . .	5
††Soc., Pol. Sci. or Econ. . . . .	10	*Approved Electives . . . . .	32
*Approved Electives . . . . .	21		

## SUMMER QUARTER (AFTER THIRD YEAR)—ADVANCED B. O. T. O. CAMP

Students taking this course will specialize in the military work of one of the three units established here, Infantry, Coast Artillery or Air Service, and receive their Reserve commissions in that branch of the service.

The military department, during the latter part of the second year and prior to the beginning of the third year, will advise the student as to his electives, all of which will be outside the military department. Each case will be handled separately depending on the student's future life. After approval by the professor of military science and tactics, and the dean of the College of Science, the curriculum for the individual student must be followed until graduation.

## G. PHYSICS

First Year	Credits	Second Year	Credits
†Physics . . . . .	15	Physics . . . . .	15
Mathematics . . . . .	15	Mathematics . . . . .	15
English . . . . .	10	Blol. Sci., Geol., or Astronomy . . . . .	10
Psychology . . . . .	5	‡Restricted Elective . . . . .	5
Mil. Sci. or Phys. Ed. . . . .	5	Mil. Sci. or Phys. Ed. . . . .	5

†† See Pol. Sci. department for requirement of Pol. Sci. 101.

\* All electives will be outside the military department

‡ Restricted electives include work in history, economics, language, philosophy, political science, and sociology.

† If the student has had high school chemistry he is advised to take physics in his freshman year.

Third Year	Credits	Fourth Year	Credits
Physics . . . . .	5	Physics . . . . .	10
Chemistry . . . . .	15	**Advisory Electives . . . . .	15
**Advisory Electives . . . . .	10	Free Electives . . . . .	20
†Restricted Electives . . . . .	10		
Free Electives . . . . .	5		

### III. REQUIRED CURRICULA IN GROUP MAJORS

#### A. CURRICULUM FOR PROSPECTIVE SCIENCE TEACHERS

The following course of study is provided for prospective teachers who desire a greater range of scientific knowledge, rather than the intensive training secured by following the curriculum of only one department. This outline permits a student to prepare for teaching in more sciences by limiting the number of credits necessary in the departments that he chooses. This curriculum refers particularly to the sciences of botany, chemistry, geology, mathematics, physics, and zoology, and selections may be made according to the regulations below.

Upon the completion of this curriculum the five-year normal diploma is granted, provided 20 hours of education are included, which are selected by the School of Education. Students may enter the teachers' courses (160A, 160B, etc.) with a prerequisite of 20 hours in the sciences chosen.

First Year	Credits	Second Year	Credits
Science . . . . .	20	Science . . . . .	20
English . . . . .	0 to 10	Education 101 . . . . .	5
Electives . . . . .	15 to 25	History . . . . .	10
Mat. Sci. or Phys. Ed. . . . .	5	Electives . . . . .	10
		Mat. Sci. or Phys. Ed. . . . .	5
Third Year	Credits	Fourth Year	Credits
Science . . . . .	20	Science . . . . .	20
Education . . . . .	8	Education . . . . .	7
Philosophy and Psychology . . . . .	10	††Econ., Pol. Sci., Sociology . . . . .	10
Electives . . . . .	7	Electives . . . . .	8

#### REGULATIONS GOVERNING THIS CURRICULUM

(a) A student may select any three of the following sciences and must complete the amount of work in any particular science, as indicated.

Botany . . . . .	20 credits	Mathematics . . . . .	20 credits
Chemistry . . . . .	20 credits	Physics . . . . .	20 credits
Geology . . . . .	20 credits	Zoology . . . . .	20 credits

(b) Included in or in addition to the courses in (a) every student must take 5 credits in mathematics, 10 credits in physics, 10 credits in chemistry, and 10 credits in botany or zoology.

(c) If 20 credits of chemistry are taken, only 15 of geology are required.

(d) The history requirement of 10 hours must be U.S. history if this subject was not taken in the high school; otherwise, History 1 and 2, or any other history may be elected to which the student is eligible.

(e) Under the heading of economics, political science, or sociology, the 10 credits required may be secured in one department only, or 5 credits each in two departments.

#### B. SIX-YEAR COURSE IN SCIENCE AND LAW

This is a combination course whereby a student may obtain the degrees of bachelor of science and bachelor of laws in six years. At the end of his third year, after he has earned 135 credits and the required credits in military science or physical education, and completed all required work

\*\* Advisory electives must be approved by the department.

† Restricted electives include work in history, economics, language, philosophy, political science, and sociology.

†† See Political Science department for requirement of Pol. Sci. 101.

with a major in some department, he may register in the School of Law for the first year's work in law. He will be granted the bachelor of science degree at the end of the fourth year, or as soon as he completes the required work above specified with 9 additional credits in the College of Science and 36 credits in the School of Law; making a total of 190 credits for graduation. The fifth and sixth years of the combined course are devoted to completing the remainder of the required work for graduation from the School of Law.

#### C. FIVE-YEAR COURSE IN SCIENCE AND LIBRARY SCIENCE

This course is for students who are preparing to become professional librarians and who desire to receive degrees of bachelor of science and bachelor of library science. Under this arrangement a student should first complete all the required work of the course for science teachers (outlined under Section A.), substituting courses in library science for the 20 credits in education. A portion of the fourth year and all of the fifth year are devoted to required subjects in library science. If this plan is carefully followed, a student should earn the degree of bachelor of science at the end of the fourth year, and the degree of bachelor of library science at the end of the fifth year. (See Library School section.)

#### D. A CURRICULUM FOR PRE-LIBRARY STUDENTS IN THE COLLEGE OF SCIENCE

##### FIRST YEAR

Credits		Credits	
*Mod. Lang. †1, 2, 3. French or Ger...	15	Zoology †1, 2. Elementary.....	10
Astronomy 1. General.....	5	Lib. Arts 1. Intro. to Mod. Thought...	5
Psychology †1. Introduction.....	5	Chem. †5-6. General.....	10

##### SECOND YEAR

Credits		Credits	
*Mod. Lang. †Fourth quarter of for.		Zoology †16. Evolution.....	2
lang. previously taken.....	5	17. Eugenics.....	2
Begin other for. lang. required by		History 1-2. Mod. and Medieval.....	10
Library School .....	10	Geology †1, 2. General.....	10
Pol. Sci., Econ. or Soc. 1. Intro.....	5	Music 13. Appreciation.....	5
English †1, 2. Composition.....	10		

##### THIRD YEAR

Credits		Credits	
*Mod. Lang. †Complete Library School		Physics †89-90. Physics of the Home..	10
Requirement .....	10	History 130. Europe, 1814-1870.....	5
Botany †1, 2. General.....	10	181. Europe, since 1870.....	5
Lib. Arts 11. Intro. to Fine Arts....	5	English 136, 137. 19th Cent. Prose...	6
Pol. Sci. †101. Const. Gov. in U.S.			
and Wash.....	2		

For those who take the library curriculum in the senior year no academic major is required in the College of Science, as the technical training of the Library School constitutes this major. Subjects marked with the double dagger are required. The complete Library School curriculum constitutes the fourth year of study.

\* The Library School requires 20 hours each of two modern foreign languages, French and German preferred, in either high school or college.

## IV. PRESCRIBED CURRICULA IN VOCATIONAL SUBJECTS

## A. PRE-MEDICAL CURRICULA

## TWO AND FOUR-YEAR CURRICULA PREPARATORY TO MEDICINE

The University offers two curricula preparatory to the study of medicine. One of these is for two years, and will meet the requirements of medical schools which require only two years of college work for admission to their professional study. The second is for four years, and prepares students for those medical schools that require for admission the completion of a full four-year college course. The curricula will not reduce the amount of work to be done by the student in the medical school but they are designed to increase its efficiency.

These courses are also well adapted for pre-dental students, as the best dental schools require the same foundation work as the medical schools.

Below is the outline of the four-year curriculum. The first and second years constitute the two-year curriculum:

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
Zool. 3 (Pre-medical)...	5	Zool. 4 (Pre-medical)...	5	Physiology 7 .....	5
English 1 .....	5	English 2 .....	5	Psychology 1 .....	5
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%	

## SECOND YEAR

Sci. French or German. 5	Chem. 128 (Organic)...	5	Chem. 129 (Organic)...	5
Physics 1 .....	Physics 2 .....	5	Physics 3 .....	5
English 73 .....	Electives .....	5	Ec. 1 or Pol. Sci 1....	5
Mil. Sci. or Phys. Ed... 1%	Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%	

## THIRD YEAR

Anatomy 101 .....	6	Anatomy 102 .....	6	Anatomy 103 .....	6
Anatomy 105 .....	6	Anatomy 106 .....	6	Anatomy 107 .....	6
*Bacteriology 101 .....	5	*Bacteriology 105 .....	5	*Bacteriology 106 .....	5

## FOURTH YEAR

Physiology 151 .....	5	Physiology 152 .....	5	Physiology 153 .....	5
*Chemistry 161 .....	5	*Chemistry 162 .....	5	Bacteriology 112 .....	5
Bacteriology 104 .....	5	Elective .....	6	Anatomy 104 .....	4
				Pol. Sci. 101 .....	2

\* Approved electives may be substituted.

## B. FIVE-YEAR CURRICULUM FOR NURSES

Believing that a broader scientific education is desired by young women entering the nursing profession, the University offers a five-year course in nursing, including three years at the University and two years at a hospital selected by the University. This course leads to a degree of bachelor of science in nursing and a certificate of nursing.

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Home Economics 9.....	6	English 1 .....	5	Chemistry 6 .....	5
Nursing 1 .....	5	Chemistry 5 .....	5	English 2 .....	5
Physics 80 .....	5	Physics 80 .....	5	Psychology 1 .....	5
Physical Ed. .... 1%		Physical Ed. .... 1%		Physical Ed. .... 1%	

## SECOND YEAR

Home Econ. 105 .....	5	Home Econ. 106.....	5	Anatomy 101-102 .....	6
Physiology 53 .....	5	Physiology 54 .....	5	Physiology 55 .....	5
Economics 1 .....	5	Sociology 1 .....	5	Nursing 3 .....	3
Physical Ed. .... 1%		Physical Ed. .... 1%		Physical Ed. .... 1%	



## THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Anatomy 103 .....	3	Psychology 126 .....	5	Pol. Sci. 101.....	2
Bacteriology 101 .....	5	Bacteriology 102 .....	5	Education 101 .....	5
English 40 .....	5	Electives .....	5	Bacteriology 103 .....	5
Electives .....	2			Electives .....	3

CURRICULUM TO BE FOLLOWED IN HOSPITAL BY FIVE-YEAR NURSING STUDENTS REVISED  
ACCORDING TO THE LATEST STANDARD CURRICULUM FOR SCHOOLS OF NURSING

<i>Credits</i>		<i>Credits</i>	
Hygiene and Sanitation.....	2	Modern Social and Health Movements..	3
Materia Medica .....	4	Obstetrical Nursing .....	3
Elementary Nursing Procedure.....	6	Mental Nursing .....	3
Advanced Nursing Procedure.....	3	Emergency Nursing .....	2
Elements of Pathology.....	2	Diseases of Eye, Ear, Nose, and	
Medical Nursing (including diseases		Throat .....	2
of skin) .....	6	Pediatric Nursing .....	3
Surgical Nursing .....	3	Nursing Practice .....	48

## CURRICULUM FOR GRADUATE NURSES

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	Chemistry 5 .....	5	Chemistry 6 .....	5
Psychology 1 .....	5	English 2 .....	5	Economics 1 .....	5
Elective .....	5	Elective .....	5	Elective .....	5
Physical Ed. ....	1½	Physical Ed. ....	1½	Physical Ed. ....	1½
Preferred electives—Sociology 1, 63, 62; Zoology 16, 17.					

## SECOND YEAR

Physiology 53 .....	5	Physiology 54 .....	5	Physiology 55 .....	5
Home Economics 105... 5		Home Economics 106... 5		Education 101 .....	5
Elective .....	5	Elective .....	5	Elective .....	5
Physical Ed. ....	1½	Physical Ed. ....	1½	Physical Ed. ....	1½
Preferred electives—Psychology 101, 114, 131; English 40; Sociology 131.					

## THIRD YEAR

Bacteriology 101 .....	5	Bacteriology 102.....	5	Bacteriology 103 .....	5
Nursing 102 .....	5	Elective .....	5	Elective .....	8
Elective .....	5	Nursing 103 .....	5	Pol. Sci. 101 .....	2
Preferred electives—Sociology 155, 156, 157, 171, 173; Nursing 110.					

## C. PRESCRIBED CURRICULA IN HOME ECONOMICS

Many fields of activity other than teaching are open to women trained in home economics. In each line of vocational work offered, there is opportunity to supplement the technical work of the laboratory with practical experience. In food preparations, the students do practical work in the University Commons, commercial establishments, hospitals and clubs. In the clothing courses, students learn first to sew for themselves and then for customers.

Seniors are required to live in the practice cottage on the campus where they take full responsibility for the management and care of the house for a family of four during a period of three weeks.

The following grouping is arranged as a guide in selecting work that will best satisfy the requirements of each individual:

*Group I, General*, for students who desire a liberal college training with emphasis on subjects that pertain to the home and home life. Persons interested in social betterment who wish to enter definite welfare work may combine home economics and sociology in this curriculum

*Group II, Food and Nutrition*, for students who wish to specialize in teaching this phase of the work in institutions of higher education, for laboratory or research workers. Those who intend to become sanitary and food inspectors are also advised to take the course.

*Group III, Teachers' Curriculum*, combines home economics and liberal arts, subjects, chemistry, physics, bacteriology, line arts, physiology and economics. Courses are arranged to meet the particular needs of home economics students. Practice teaching extending through one quarter in the Seattle schools is required. On application to the State Board of Vocational Education, graduates of this course will receive a Smith-Hughes certificate. A teaching major in home economics consists of: H.E. 4, 5, 116, 8, 25, 107, 108, 111, 112, 113, 144, 145, 148 with their prerequisites.

*Group IV, Institutional Management*, combines the fundamental sciences, technical and business courses with practice work. Young women training along this line with initiative and ability find positions that offer increasingly attractive returns.

*Group V, Textiles, Clothing and Fine Arts*, requires a minimum of science but gives ample opportunity for combining work in design with clothing and textiles for the purpose of general culture or for use in a commercial field. A major in Business Administration may be included.

Any of these five lines lead to the degree of bachelor of science in home economics. Students who fulfill all entrance requirements of the College of Liberal Arts may use home economics as a major for the degree of bachelor of arts.

"Preferred elective" refers to required courses from which the student may be exempted in certain cases with the approval of the head of the department.

#### GROUP I—GENERAL CURRICULUM

To provide a liberal college training, and for those students who wish to fit themselves for the following vocations:

1. Homemaking.
2. Social Service. (Elect economics and sociology.)

##### FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	English 2 .....	5	Physiology 7 .....	5
Zool. 1 or Bot. 1 .....	5	Chemistry 5 .....	5	Chemistry 6 .....	5
Physical Ed. ....	1½	Zool. 2 or Bot. 2 .....	5	Lang., Lit. or Hist. ....	5
		Physical Ed. ....	1½	Physical Ed. ....	1½

Preferred electives—H.E. 4, 7, 8, 25, 43; Nursing 5.

##### SECOND YEAR

Lang., Lit. or Hist. ....	10	Lang., Lit. or Hist. ....	10	Lang., Lit. or Hist. ....	5
Physical Ed. ....	1½	Physical Ed. ....	1½	Psychology 1 .....	5
				Economics 1 .....	5
				Physical Ed. ....	1½

Preferred electives—H.E. 5; P.S.D. 9; Bact. 101.

##### THIRD YEAR

Philosophy 2 .....	5	Sociology 1 .....	5	Pol. Sci. 101 .....	2
Preferred electives—H.E. 105-106, 111, 112, 113, 116; Physics 89-90					

##### FOURTH YEAR

Preferred electives—H.E. 144-145, 148, 149; Arch. 1-2.

## GROUP II—FOOD AND NUTRITION

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
English 1 .....	5	English 2 .....	5	Chemistry 6 .....	5
Physiology 53 .....	5	Chemistry 5 .....	5	Physiology 55 .....	5
Physical Ed. ....	1½	Physiology 54 .....	5	Lang., Lit., or Hist. . .	5
		Physical Ed. ....	1½	Physical Ed. ....	1½

Preferred electives—H.E. 4, 7, 8, 25; P.S.D. 9.

## SECOND YEAR

Lang., Lit., or Hist. . .	5	Lang., Lit., or Hist. . .	5	Lang., Lit., or Hist. . .	5
Bacteriology 101 .....	5	Bacteriology 102 .....	5	Psychology 1 .....	5
Chemistry 135 .....	5	Chemistry 136 .....	5	Chemistry 144 .....	5
Physical Ed. ....	1½	Physical Ed. ....	1½	Physical Ed. ....	1½

Preferred electives—H.E. 5; Soc. 56, 57; Psych. 118, 121.

## THIRD YEAR

Pol. Sci. 101 .....	2	Economics 1 .....	5	Chemistry 104 .....	4
				Sociology 1 .....	5

Preferred electives—H.E. 107-108, 111, 116; Nursing 5; Physics 89-90

## FOURTH YEAR

Preferred electives—H.E. 148, 183, 190, 191 and related sciences.

## GROUP III—SMITH-HUGHES TEACHER TRAINING

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
English 1 .....	5	English 2 .....	5	Lang., Lit., or Hist. . .	5
Physiology 6 .....	5	Chemistry 5 .....	5	Chemistry 6 .....	5
Physical Ed. ....	1½	Physical Ed. ....	1½	Physical Ed. ....	1½

Preferred electives—H.E. 4, 7, 8, 25; P.S.D. 9.

If H.E. 4 and 8 are taken in high school, substitute H.E. 43 and Nursing 5.

## SECOND YEAR

Lang., Lit., or Hist. . .	5	Lang., Lit., or Hist. . .	5	Lang., Lit., or Hist. . .	5
Chemistry 135 .....	5	Chemistry 136 .....	5	Psychology 1 .....	5
Physical Ed. ....	1	Physical Ed. ....	1	Physical Ed. ....	1
Preferred electives—				Bacteriology 101 .....	5
Home Economics 5....	5				

## THIRD YEAR

Education 101 .....	5	Education 140 .....	5	Economics 1 .....	5
				Education 119 .....	3
Preferred electives—				Sociology 1 .....	5
Physics 89 .....	5	Physics 90 .....	5	Home Econ. 107-108. . .	10
Home Economics 112 ..	5	Home Economics 113....	5	Home Economics 143....	3
		Home Economics 116....	5	Home Economics 111 ..	3

## FOURTH YEAR

Education 160I .....	3	Education 160J .....	3	Education 145 .....	5
				Home Economics 145....	2
Preferred electives—				Home Economics 183....	3
Home Economics 148....	2	Home Economics 144....	2	Pol. Sci. 101 .....	2
Architecture 1, 2....	4				

## GROUP IV—INSTITUTIONAL MANAGEMENT

To be taken by those who wish to fit themselves for the following vocations:

1. Dietitians,
2. House directors.
3. Managers of tearooms, lunchrooms, cafeterias.
4. Food service in state, municipal, or charitable institutions.

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	English 2 .....	5	Chemistry 6 .....	5
Physiology 6 .....	5	Chemistry 5 .....	5	Lang., Lit. or Hist. ....	5
Physical Ed. ....	1½	Physical Ed. ....	1½	Physical Ed. ....	1½

Preferred electives—H.E. 4, 7, 25; P.S.D. 9; B.A. 65 and B.A. 106.

## SECOND YEAR

Lang., Lit., or Hist. ....	5	Lang., Lit., or Hist. ....	5	Lang., Lit., or Hist. ....	5
Physical Ed. ....	1½	Chemistry 136 .....	5	Psychology 1 .....	5
Chemistry 135 .....	5	Physical Ed. ....	1½	Physical Ed. ....	1½

Preferred electives—H.E. 5; Bact. 101.

## THIRD YEAR

Pol. Sci. 101.....	2	Economics 1 .....	5	Sociology 1 .....	5
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Preferred electives—H.E. 107-108, 116, 124, 143; Chem. 144; Physics 89-90.

## FOURTH YEAR

Preferred electives—H.E. 121, 122, 123, 125, 144, 145, 148, 190, 191; Arch. 1-2.

## GROUP V—TEXTILES, CLOTHING AND FINE ARTS

## SUMMARY

	<i>Credits</i>		<i>Credits</i>
College requirements .....	65	Free electives .....	34
Fine Arts .....	31	Physical Education .....	10
Home Economics .....	50		
			190

A major in business administration may be elected with this curriculum. This is advised for those who wish to enter commercial fields in costume design. For this purpose students should elect the following courses: Business Administration 1, 62, 106, 136, 146, 147, 198. The normal diploma may be secured by electing the subjects required: Ed. 101, 140, 119, 145, 160I.

## SUGGESTED SCHEDULE

<i>College Requirements</i>	<i>Credits</i>	<i>Fine Arts</i>	<i>Credits</i>	<i>Home Economics</i>	<i>Credits</i>
English .....	10	P.S. & D. 9-10-11.....	9	H.E. 7, Survey.....	2
Lang., Lit., or Hist.....	20	P.S. & D. 169-170....	4	H.E. 8, Ele. Clothing..	3
Chem. 5, 6 or Phys. ....		Arch. 1-2 .....	4	H.E. 25, Textiles.....	5
89, 90 .....	10	P.S. & D. Electives.....	14	H.E. 127, Non-Textiles.	3
Physiology 7 .....	5			H.E. 101-102 .....	4
Economics 1 .....	5			H.E. 112-113 (Clothing).	10
Sociology 1 .....	5			H.E. 130-131 Commercial	
Psychology 1 .....	5			Costume Construction	6
Philosophy 1 or 2 ....	5			H.E. 133 Costume Design	5
				H.E. 135 Millinery....	3
				H.E. 143, Home Furnish.	3
				H.E. 145 House Manag't.	2
				H.E. 148 Practice Cottage	2
				H.E. 188 Adv. Textiles	2
Total .....	65	Total .....	31	Total .....	50
Free Electives .....	34			Physical Education ....	10

Preferred elective—P.S.C. 5 or 6 or 7.

## D. PHYSICAL EDUCATION FOR WOMEN

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1 .....	5	Lang., Lit., Hist., or		English 2 .....	5
Lang., Lit., Hist., or		Elective .....	5	Lang., Lit., Hist., or	
Elective .....	5	Chemistry 5 .....	5	Elective .....	5
Zoology 1 .....	5	Sociology 1 .....	5	Chemistry 6 .....	5
Physical Ed. ....	2	Physical Ed. ....	2	Physical Ed. ....	2

Preferred elective—Phys. Ed. 180.

## SECOND YEAR

Physiology 53 .....	5	Physiology 54 .....	5	Physiology 55 .....	5
Lang., Lit., Hist., or		Psychology 1 .....	5	Education 101 .....	5
Elective .....	5	Anatomy 102 .....	3	Anatomy 103 .....	3
Anatomy 101 .....	3	Physical Ed. ....	2	Physical Ed. ....	2
Physical Ed. ....	2				

Preferred Electives—

Physical Ed. 111..... 3

Physical Ed. 112..... 3

Physical Ed. 113..... 3

## THIRD YEAR

Physics 89 ..... 5	Physics 90 ..... 5	Education 140 ..... 5
Preferred Electives—		
Phys. Ed. 104 (Dancing) 2	Phys. Ed. 105 (Dancing) 2	Phys. Ed. 106 (Dancing) 2
Phys. Ed. 101 (Gymna.) 3	Phys. Ed. 102 (Gymnas.) 3	Phys. Ed. 103 (Gymnas.) 3
Phys. Ed. 131 (Correc.) 3	Phys. Ed. 132 (Correc.) 3	Phys. Ed. 133 (Correc.) 3
Phys. Ed. 167 (Athlet.) 3		Phys. Ed. 122 (Kin'lgry) 3
		Phys. Ed. 169 (Athlet.) 3

## FOURTH YEAR

Education 145 ..... 3	Education 145 ..... 2	Electives ..... 5
Education 119 ..... 3	Electives ..... 7	Pol. Sci. 101 ..... 2
Education 160R ..... 2		
Preferred Electives—		
Phys. Ed. 164 (Dancing) 2	Phys. Ed. 155 (Dancing) 2	Phys. Ed. 156 (Dancing) 2
Phys. Ed. 170 (Athlet.) 2	Phys. Ed. 152 (Ad. in Phys. Ed.) ..... 2	Phys. Ed. 153 (Meth. Hyg. Inst.) ..... 2
	Phys. Ed. 171 (Athlet.) 2	Phys. Ed. 172 (Athlet.) 2
Physical Education, 69 credits		Electives, 32 credits.

If chemistry and physics have been taken in high school, Chemistry 5 and 6 and Physics 89 and 90 may be eliminated.

If neither chemistry nor physics has been taken in high school either chemistry or physics must be taken in the University, in which event the student may substitute for one of these sciences ten hours in approved courses in the College of Science.

Of the preferred electives in physical education, the minimum is 58 and the maximum 64 credits.

A student may also use physical education as a major, following the prescriptions outlined under group 1 (curricula with major in one department).

## V. CURRICULUM LEADING TO CERTIFICATE IN PUBLIC HEALTH NURSING

The broadening of the field of nursing has created a demand on the part of nurses for definite study along lines which experience has shown to be closely interwoven with the problems of the family and the community. A nurse must combine with the technical knowledge she already possesses an understanding of the fundamental principles of economics and the social sciences.

The demand for properly trained and qualified public health nurses is constantly increasing as new fields open through recognition by the public of the economic value of the work. Beginning each quarter of the year the University offers a nine-months' course in public health nursing, which is open to graduate nurses who are deemed qualified for such work, and who wish to broaden their training to take up positions in this specialized line.

The curriculum:

	Credits		Credits
Nursing 102 .....	5	‡Psychology 1 .....	5
Nursing 103 .....	5	‡Psychology 181-182 .....	6
‡Sociology 171 .....	5	‡Bacteriology 103 .....	5
‡Home Economics 105-106 .....	10	‡Education 101 .....	5
‡English 40 .....	5	Field Work .....	16
		Total credits required .....	45

## EXTENSION SERVICE CURRICULUM AT FIRLANDS SANATORIUM.

Which Also Leads to the Certificate in Public Health Nursing.

	Credits		Credits
Nursing 102 .....	3	Sociology 171 .....	3
Nursing 103 .....	3	Psychology 1 .....	3
H.E. 104 .....	3	English 40 .....	3

‡Electives.

## SERVICE COURSE FOR NURSES

To meet the needs for certain courses in the basic sciences, the University is offering a one-quarter course to students who have entered the hospital schools of nursing.

Requirements for entrance: 1. Recommendation of the hospital superintendent. 2. High school graduation.

The curriculum:

	<i>Credits</i>		<i>Credits</i>
Chemistry 7 .....	5	Anatomy 25 .....	2
Home Economics 9 .....	5	Physiology 20 .....	2

## COURSES OF STUDY

For description of courses see Departments of Instruction section.

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**GENERAL NOTE**—Each student is to be held either for the admission and graduation requirements of the catalogue under which he enters, or for those of the catalogue under which he graduates.

# SCHOOL OF EDUCATION

## THE FACULTY 1927--1928

Matthew Lyle Spencer, Ph.D. (Chicago).....	<i>President</i>
David Thomson, B.A. (Toronto).....	<i>Dean of Faculties</i>
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Assistant Dean of Faculties</i>
Frederick Elmer Bolton, Ph.D. (Clark).....	<i>Professor of Education; Dean of the School of Education</i>
Fred Carleton Ayer, Ph.D. (Chicago).....	<i>Professor of Education</i>
Edgar Dunnington Randolph, Ph.D. (Columbia).....	<i>Professor of Education</i>
Alexander Crippen Roberts, Ph.D. (Washington).....	<i>Professor of Education; Director of the Extension Service</i>
John H. Jessup, A.M. (Iowa).....	<i>Associate Professor of Education</i>
Curtis Talmadge Williams, Ph.D. (Clark).....	<i>Assistant Professor of Education</i>
August Dvorak, Ph.D. (Minnesota).....	<i>Assistant Professor of Education</i>
Cecil L. Hughes, Ph.D. (Washington).....	<i>Assistant Professor of Education</i>
Edgar Marian Draper, Ph.D. (Washington).....	<i>Assistant Professor of Education</i>
Wallace Theodore Wait, A.M. (Washington).....	<i>Associate in Education</i>
Yale T. Tsang.....	<i>Fellow in Education</i>
<hr/>	
Henry Landes, A.M. (Harvard).....	<i>Professor of Geology; Dean of the College of Science</i>
Edmond Stephen Meany, M.L. (Wisconsin).....	<i>Professor of History</i>
Caroline Haven Ober.....	<i>Professor of Spanish</i>
Trevor Kincaid, A.M. (Washington).....	<i>Professor of Zoology</i>
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Professor of English; Dean of the Graduate School</i>
Frederick Arthur Osborn, Ph.D. (Michigan).....	<i>Professor of Physics</i>
Pierre Joseph Frein, Ph.D. (Johns Hopkins).....	<i>Professor of Romance Languages</i>
Charles Willis Johnson, Ph.D. (Michigan).....	<i>Professor of Pharmaceutical Chemistry and Dean of the College of Pharmacy</i>
Theodore Christian Frye, Ph.D. (Chicago).....	<i>Professor of Botany</i>
Robert Edouard Moritz, Ph.D. (Strassburg).....	<i>Professor of Mathematics</i>
Irving Mackey Glen, A.M. (Oregon).....	<i>Professor of Music; Dean of the College of Fine Arts</i>
Edwin John Vickner, Ph.D. (Minnesota).....	<i>Professor of Scandinavian Languages</i>
Effie Isabel Raitt, A.M. (Columbia).....	<i>Professor of Home Economics</i>
Stevenson Smith, Ph.D. (Pennsylvania).....	<i>Professor of Psychology</i>
William Edward Cox, A.M. (Texas).....	<i>Professor of Business Administration; Dean of the College of Business Administration</i>
Howard B. Woolston, Ph.D. (Columbia).....	<i>Professor of Sociology</i>
Edward McMahon, A.M. (Wisconsin).....	<i>Professor of American History</i>
Thomas Gordon Thompson, Ph.D. (Washington).....	<i>Associate Professor of Chemistry</i>
Ernest Otto Eckelman, Ph.D. (Heidelberg).....	<i>Assistant Professor of Germanic Languages</i>
Frances Dickey Newenham, A.M. (Columbia).....	<i>Associate Professor of Music</i>
George Edward Goodspeed, Jr., B.S. (Mass. Inst. of Tech.).....	<i>Assistant Professor of Geology</i>
Mary Emma Gross, A.M. (Columbia).....	<i>Associate Professor of Physical Education for Women</i>

## GENERAL STATEMENT

The School of Education bases its work on two years of college or normal school. Only one course in education, 101 or 102, is allowed in the sophomore year. The degrees awarded are bachelor of arts in education or bachelor of science in education according to the character of the academic work chosen.

The work in the school is strictly professional and seeks to afford special training and technique for the various types of teachers and educational specialists. Emphasis is placed on graduate work. A probationary teaching certificate, the five year normal diploma, is granted for a minimum amount of professional study, but all wishing to secure the life diploma are required to spend at least one quarter in residence after graduation and complete a total of 35 credits (including the undergraduate work) in education.

*Scope and Aims.*—The curriculum of the School of Education assumes that teachers should have a broad and liberal education, supplemented by professional training, giving knowledge of the pupils to be taught and the problems to be met, and new meaning to the subjects of instruction, as well as fundamental principles of teaching; and that they should be masters of some special subject which they expect to teach.

The school is especially fitted to provide teachers of the following types: (1) high school teachers, (2) high school principals, (3) superintendents of public schools, (4) grammar school principals, (5) supervisors of primary schools, (6) supervisors and teachers of music, drawing, manual and industrial arts, home economics, physical training and other special subjects, (7) normal school and college instructors in education, (8) experts in educational research, (9) specialists in the education of defectives, (10) playground directors, (11) Y. M. C. A. and Y. W. C. A. workers, (12) juvenile court workers.

*General Academic Work.*—Because of the variety of work which every teacher is likely to be required to do on beginning to teach, and because of the requirements for state certificates, elementary college courses should be taken in not less than four subjects taught in the high schools.

*Specialized Academic Work.*—Each teacher should have thoroughly extended preparation in one subject and reasonable preparation in at least two additional subjects. Experience has shown that the following combinations are most frequently demanded: Latin, French; Latin, Greek; English, French; English, history, civics; English, Latin, history; Spanish, French; mathematics, physics, chemistry; botany, zoology, physiology, physiography; home economics alone or in connection with one or two other subjects; manual and industrial arts alone or in connection with one or two other subjects; commercial subjects alone or with other subjects; athletics, music or drawing in combination with other work. One teacher is frequently required to teach all the sciences. Public speaking is desirable as part of the preparation for teaching English.

*Professional Work.*—The requirements for the academic major and minors assure a proper distribution of the academic subjects. The professional work consists (a) of the courses in the department of education, (b) the teachers courses in the various academic departments.

*Special Teachers' Courses.*—Many academic departments have teachers' courses covering the problems of teaching their subjects in high schools. Work in special methods relating to particular subjects is given by instructors dealing most directly with the subject matter. Foundation principles of general methods based on the laws of learning and teaching are developed in the department of education.



*Observation and Supervised Teaching.*—By an arrangement between the University and the schools of Seattle students in the department of education may observe the regular work in certain schools (at present twelve are used) and do supervised teaching under the direction of the regular teachers of the school and the university professor in charge of that work. Thus students have an opportunity to gain valuable experience under exceptionally favorable conditions.

*Industrial Arts.*—While no separate department of industrial arts is maintained during the regular year, special attention is devoted to this work during the summer quarter. A good curriculum may be obtained during the regular academic year by selecting courses in engineering, fine arts, and education. Because of the excellent industrial arts work in the Seattle public schools, students have unusual facilities for observing the best organization and equipment. A large number of industrial centers and pre-vocational classes are maintained in various parts of the city.

*Athletics and Playground Activities.*—At the present time there is a strong demand for teachers, both men and women, who can direct various forms of athletics and playground activities in high school and the grammar grades.

*Public School Music.*—Not only is there a demand for specially trained supervisors of music in the schools, but every school needs teachers who can assist in the general musical activities of the school and community. Every teacher who has any musical ability should take some training in music and participate in some of the University musical organizations.

*Debating, Dramatics, Public Speaking.*—Every teacher will be called on to assist in the incidental work of the school. The small towns cannot afford special teachers of public speaking and debate and consequently the teacher who prepares to assist in these lines increases his usefulness. Every student should participate in some of these lines throughout his college course and should take definite courses in these subjects.

*Journalism in High Schools.*—Newspaper writing is being introduced in some of the best high schools as part of the English course. It seems to afford a valuable incentive to many pupils in their English work. The teacher who undertakes this work needs to be especially well trained professionally as well as in English and journalism. For a proper combination of courses the student should consult the departments of education, English, and journalism.

*Commercial Subjects.*—At present the demand on the University for teachers of commercial subjects far exceeds the supply. To prepare for this line of work the student should include courses in bookkeeping, stenography, commercial law, commercial policies, commercial geography, economics, besides the professional training in education.

*Teaching of Technical Subjects in College.*—Many students of engineering, forestry, law and other technical subjects ultimately plan to teach those subjects in colleges or technical schools. An increasing number of such students desire professional training in educational theory and methods as part of their preparation.

*The Study of Education and Citizenship.*—Courses in education are valuable both for those who expect to teach and for those who expect to become useful citizens of any community. Many courses in education, therefore, are rightly coming to be pursued by students not expecting to become teachers.

*Extension Service.*—The department of education is pleased to render service to the cause of education in many ways besides through regular courses of instruction. Members frequently give addresses at teachers' institutes, parent-teacher associations, educational associations, community centers, school dedications, and school commencements. They also are pleased to conduct educational surveys as far as time will permit.

*Saturday and Evening Classes.*—To accommodate teachers of Seattle and vicinity several classes in education are scheduled on Saturday and during the late afternoon and evening.

*Bureau of Appointments.*—The University maintains an appointment bureau to assist students in obtaining desirable positions. The services are entirely free to students and graduates of the University and to employers.

*Honorary Educational Societies.*—Chapters of Phi Delta Kappa, men's national honorary educational fraternity, and Pi Lambda Theta, women's national honorary educational sorority, have been established for several years. Each has a large and vigorous membership. A men's education club has recently been organized.

#### ADMISSION

The admission requirements are completion of 90 hours of college credit earned in the University of Washington or in an accredited institution of equal rank. Disposition of these 90 hours shall be determined by mutual agreement of the faculty of the School of Education and the faculty of the particular college concerned, and shall be administered by the dean of the college in accordance therewith. In addition the usual undergraduate requirements in physical training or military drill must be completed.

Sophomores who have earned 65 hours of credit may enroll in course 101, Introduction to Education or 102 Elementary Educational Psychology.

*Admission of Normal School Graduates to Advanced Standing.*—Advanced credit for work taken in approved normal schools, by students previously graduated from an accredited four-year secondary school, will be allowed at the rate of 45 hours of lump credit for each full year's work completed in the normal school, the minimum amount accepted as a year's work being 36 weeks of attendance with at least 45 quarter credits, not more than 19 of which shall have been earned in one quarter.

For graduation with the degree of bachelor of arts in education or bachelor of science in education a normal school graduate with such advanced credit must earn in the University a sufficient number of credits to bring the total up to 180 credits plus ten credits of required courses in physical education or military science, and including all specific requirements for the degree not fully covered by previous work. Claims for exemption from specific requirements, based on work in normal school, are passed on by the registrar and the dean of the college concerned.

A minimum of three full quarters in residence is required for any degree granted by the University.

The work of the senior year (a minimum of 36 credits earned in three quarters) must be done in residence, is required for any degree granted by the University.

It should be noted that a student whose work in high school and normal school has not included a sufficient number of special requirements of the School of Education, may find it necessary to offer more than the usual 190 credits for the degree of bachelor of arts in education or the degree of bachelor of science in education.

## GRADUATION

For graduation from the School of Education with the degree of bachelor of arts in education or bachelor of science in education there shall be completed 90 hours of credit beyond requirements for entrance to the school, at least 48 of which shall be in upper division subjects. In the total of 180 hours of academic credit required for graduation from the School of Education the following must be included:

	<i>Credits</i>
Academic major .....	35
Academic minor .....	20
Education, including 2 hours special teachers' course.....	25

The education courses required for the degree of bachelor of arts in education, or bachelor of science in education shall include the following:

	<i>Credits</i>
101. Introduction to Study of Education	
or	
102. Elementary Educational Psychology.....	5
119. Secondary Education .....	3
140. Psychology of Teaching Methods.....	5
145. Practice Teaching .....	5
150. Educational Measurements .....	3
160. Teachers' Course in Special Subject.....	2
Educational Electives .....	2
	25

An academic major consists of 35 credits in some subject other than education.

An academic minor consists of 20 credits in some subject other than education.

The academic major and minor may be selected from any subjects now recognized in the College of Liberal Arts, Science, Fine Arts, or Business Administration, or such others as may be approved by the faculty of the School of Education. Students may minor (but not major) in journalism.

Part of the preparation in the academic major and minor should be completed before entrance to the School of Education.

No courses in education may be taken before the junior year, except that sophomores who have earned 65 quarter hours of credit may enroll in course 101, Introduction to Education or 102 Elementary Educational Psychology.

Normal school graduates who are candidates for the bachelor's degree from the School of Education are required to take the following courses in education:

119. Secondary Education .....	3
150. Educational Measurements .....	3
152. Social Surveys of Education.....	2
160. Teachers' Course in Special Subject.....	2
Electives in Education .....	10
	20

Experienced teachers who are candidates for the bachelor's degree from the School of Education are required to take the following courses:

	<i>Credits</i>
101. Introduction to Study of Education	
or	
102. Elementary Educational Psychology.....	5
119. Secondary Education .....	3
140. Psychology of Teaching Methods.....	5
150. Educational Measurements .....	3
152. Social Surveys of Education.....	2
160. Teachers' Course in Special Subject.....	2
Electives in Education .....	5
	25

Students in other colleges or schools of the University may elect courses in education according to conditions fixed by those colleges and not inconsistent with regulations of the School of Education.

Students are allowed to combine, in preparation for teaching, courses in the departments of political science, sociology and economics, for the academic major or the academic minor. Such combinations must be approved by the dean of the School of Education and the head of the department in which the academic major or minor is selected.

Courses in manual and industrial arts, or in those combined with drawing, will be accepted as an academic minor toward graduation from the School of Education.

#### REQUIREMENTS FOR NORMAL AND LIFE DIPLOMAS

The University is authorized by law to issue diplomas valid in the State of Washington as teachers' certificates to teach in any high school or to superintend or supervise in any public school of the state, as described below:

The University Five-Year Normal Diploma, valid for a period of five calendar years from date of issue, is granted on the following conditions:

(a) Graduation from the University, (b) evidence of good health, such general scholarship and personal and moral qualities as give promise of success and credit in the teaching profession. Active professional interest in teaching is an important factor. The faculty of the School of Education may refuse to recommend candidates for the normal diplomas who fail to measure up to the foregoing standards. (c) Completion of the following courses in education:

101. Introduction to Study of Education	<i>Credits</i>
or	
102. Elementary Educational Psychology .....	5
119. Secondary Education .....	3
140. Psychology of Teaching Methods.....	5
145. Practice Teaching .....	5
160. Teachers' Course in Special Subject.....	2
	<hr/>
	20

Graduates from the University of Washington with no credits in education who desire the five-year normal diploma must complete the following courses in education:

	<i>Credits</i>
119. Secondary Education .....	3
140. Psychology of Teaching Methods.....	5
145. Practice Teaching .....	5
150. Educational Measurements .....	3
152. Social Surveys of Education.....	2
160. Teachers' Course in Special Subject.....	2
	<hr/>
	20

Graduates from other colleges who desire the five-year normal diploma are required to be in residence one academic year, earn a total of 45 credits, and to complete the following courses in education: Any exemption or substitution must be approved by the dean of the School of Education.

	<i>Credits</i>
119. Secondary Education .....	3
140. Psychology of Teaching Methods.....	5
145. Practice Teaching .....	5
150. Educational Measurements .....	3
152. Social Surveys of Education.....	2
160. Teachers' Course in Special Subject.....	2
	<hr/>
	20

They also must complete a total of 45 credits including 10 credits in some teaching subjects approved by the head of the department in which the academic major work is chosen.

The teachers' course in the academic major is required, if offered.

Graduates of the two-year course of state normal schools who subsequently graduate from this University and who become candidates for the University five-year normal diploma must earn in this University at least 20 credits in education if registered in the School of Education; if registered in any other school or college in this University they shall earn 15 credits in Education. The credits shall be distributed as follows:

	<i>Credits</i>
119. Secondary Education .....	3
150. Educational Measurements .....	3
152. Social Surveys of Education.....	2
160. Teachers' Course in Special Subject.....	2
Electives in Education.....	5
	<hr/> 15

Normal school graduates must qualify for the University normal diploma or life diploma to be eligible to teach in high schools. The diplomas from the normal schools qualify the holders for elementary schools only.

All graduates from the two year course of state normal schools who receive the life diploma from this University shall earn here a minimum of 30 credits in Education.

Persons who have received the master's or doctor's degrees from this University are eligible to the University five-year normal diploma provided they have fulfilled the specific normal diploma requirements.

The University life diploma is granted to candidates who fulfill the requirements for the University five-year normal diploma and who have completed:

- (a) At least one quarter of residence study subsequent to receiving the five-year diploma.
- (b) A minimum of 35 quarter hours in education, which may include a maximum of 5 hours in teachers' courses in special subjects.
- (c) A minimum of 5 additional quarter hours in an academic subject which will normally be the academic major or minor.
- (d) Who also furnish satisfactory evidence of having taught successfully for at least twenty-four months.

The life diploma is not granted until candidates have taught at least one school year subsequent to receiving the normal diploma even though they have had twenty-four months of teaching experience.

No person is eligible to receive the degree, the normal diploma or the life diploma who has not been in residence at this University at least three quarters.

Use of education as the only recommended teaching subject (or major subject) is (for normal diploma) limited to cases of men and women in administrative positions whose undergraduate work shows a fair degree of preparation in two or more high school subjects. In all other cases, each candidate for the five-year normal diploma or life diploma must be recommended by at least one department besides education. Candidates for the life diploma should either take five extra hours in education before graduation or five hours in extension in order to complete the remaining requirements in one quarter of residence.

**MINIMUM FOR DEGREE OF BACHELOR OF ARTS IN EDUCATION, OR BACHELOR OF SCIENCE IN EDUCATION, AND FIVE-YEAR NORMAL DIPLOMA**

**For High School Teachers**

Regular Students University of Washington	Normal School Graduates
*Credits	*Credits
101. Introduction to Study of Education or 102. Elementary Educational Psychology. 5	119. Secondary Education ..... 3
119. Secondary Education ..... 3	150. Educational Measurements ..... 3
140. Psychology of Teaching Method... 5	152. Social Surveys in Education..... 2
145. Practice Teaching ..... 5	160. Teachers' Course in Special Subject 2
150. Educational Measurements ..... 3	Electives in Education.....10
160. Teachers' Course in Special Subject 2	<hr/> 20
Electives in Education ..... 2	
<hr/> 25	

**MINIMUM REQUIREMENTS IN EDUCATION FOR STUDENTS FROM OTHER COLLEGES OF THE UNIVERSITY**

**For Five-Year Normal Diploma**

Regular Students from Other Colleges of the University.	Graduates from University of Washington with no Under- Graduate Credits in Education	Graduates from Other Accred- ted Colleges with no Under- Graduate Credits in Education
*Credits	*Credits	*Credits
101. Introduction to the Study of Education or 102. Elem. Educ. Psych... 5	119. Secondary Education... 3	119. Secondary Education... 3
119. Secondary Education... 3	140. Psychology of Teach- ing Method ..... 5	140. Psychology of Teach- ing Method ..... 5
140. Psychology of Teach- ing Method ..... 5	145. Practice Teaching... 5	145. Practice Teaching... 5
145. Practice Teaching... 5	150. Educ. Measurements... 3	150. Educ. Measurements... 3
160. Teachers' Course in Special Subject ..... 2	152. Social Surveys ..... 2	152. Social Surveys ..... 2
	160. Teachers' Course in Special Subject ..... 2	160. Teachers' Course in Special Subject ..... 2
<hr/> 20	<hr/> 20	<hr/> 45
		One year of residence in this University. These will presumably select work to apply on a masters' degree.

**DISTRIBUTION OF COURSES IN EDUCATION IN PREPARATION FOR SPECIAL TYPES OF POSITIONS. LEADS TO MASTER'S DEGREE**

Requirements in Education for Bachelor of Arts in Education, or Bachelor of Science in Education.

High School Principal	Grade School Principal	Village Superintendent	City Superintendent
*Credits	*Credits	*Credits	*Credits
Introduction to the Study of Educ. 5 or Elementary Educ. Psych. .... 5	Introduction to the Study of Educ. 5 or Elementary Educ. Psych. .... 5	Introduction to the Study of Educ. 5 or Elementary Educ. Psych. .... 5	Introduction to the Study of Educ. 5 or Elementary Educ. Psych. .... 5
Secondary Educa- tion ..... 3	Psych. of Teach- ing Method ... 5	Psych. of Teach- ing Method ... 5	Psych. of Teach- ing Method ... 5
Psych. of Teach- ing Method ... 5	Secondary Educa- tion ..... 3	Secondary Educa- tion ..... 3	Secondary Educa- tion ..... 3
Teachers' Course in Special Sub- ject ..... 2	Teachers' Course in Special Sub- ject ..... 2	Teachers' Course in Special Sub- ject ..... 2	Teachers' Course in Special Sub- ject ..... 2
Practice Teaching 5	Practice Teaching 5	Practice Teaching 5	Practice Teaching 5
Educ. Measure- ments ..... 3	Educ. Measure- ments ..... 3	Educ. Measure- ments ..... 3	Educ. Measure- ments ..... 3
Electives in Edu- cation ..... 2	Electives in Edu- cation ..... 2	Electives in Edu- cation ..... 2	Electives in Edu- cation ..... 2
<hr/> 25	<hr/> 25	<hr/> 25	<hr/> 25

\* Quarter hours.

## ADDITIONAL REQUIREMENTS IN EDUCATION FOR MASTER'S DEGREE

Junior High School 5	Junior High School 5	Educational Soci-	Junior High School 5
High School Or-	Intelligence and its	ology ..... 3	Intelligence and its
ganization . . . 2	measurement .. 6	Psych. of Elemen-	measurement .. 6
Psych. of High	Psych. of Elemen-	tary School Sub-	Psych. of Elemen-
School Subjects 3	tary School Sub-	jects . . . . . 3	tary School Sub-
Educational Ad-	jects . . . . . 3	Educational Ad-	jects . . . . . 3
ministration ... 6	Educational Ad-	ministration .. 6	Educational Ad-
Electives ..... 6	ministration .. 6	Electives .....10	ministration .. 6
Thesis . . . . . 6	Electives ..... 2	Thesis . . . . . 6	Electives ..... 2
	Thesis . . . . . 6		Thesis . . . . . 6
—	—	—	—
28	28	28	28

## REQUIREMENTS IN EDUCATION FOR CANDIDATES FOR SPECIAL POSITIONS AND FOR DEGREE OF DOCTOR OF PHILOSOPHY

In addition to the requirements for the bachelor's degree in education elect 60 hours from the following and such other approved graduate courses as may be offered in the summer quarter.

No.	Course	Credit	No.	Course	Credit
151.	Educational Sociology .....	3	186, 187, 188.	El. School Curriculum	6
152.	Social Surveys of School Studies		191, 192, 193.	Educ. Administration.	9
	and Activities .....	2	195.	School Supervision .....	5
154.	Junior High School .....	5	196-197-198.	Intell. and its Meas.	6
156.	High School Organization ....	2	201-202-203.	Prob. in Mod. Methods	6
157.	Extra-Curricular Activities ....	5	205.	Org. and Adm. of Supervised	
159.	The High School Principal.....	3		Teaching.....	3
161.	History of Education .....	5	206.	Educational Statistics .....	3
163.	History of American Education.	5	210.	Methods of Educ. Research....	1
164.	The History of Secondary Ed. .	3	212-213.	Comparative Education.....	4
165.	Problem Children .....	5	215.	Junior College .....	3
170.	Educational Psychology .....	5	232-233.	Advanced Educ. Psych.....	4
172.	Psychology of El. School Sub. .	3	235.	Surv. of Recent Educ. Lit....	2
173.	Psychology of High School Sub..	3	261-262-263.	Seminar in Educ. Soc. ....	6
174.	Psych. Prob. of Vocational Ed... 3		271-272-273.	Sem. in Educ. Surv....	6
176.	Educational Guidance .....	5	275-276-277.	Sem. in Secondary Educ. ....	6
179.	The Health Ed. Movement.....	3	281.	Sem in Character Educ.....	2
181.	Ed. Prob. of Adolescence....	5	285-286-287.	Sem in Educ. Meas.....	6

## REQUIREMENTS FOR ACADEMIC MAJORS AND MINORS AND DEPARTMENTAL RECOMMENDATIONS FOR THE NORMAL AND LIFE DIPLOMAS

An academic major consists of 35 credits in some subject other than education.

An academic minor consist of 20 credits in some subject other than education.

Below are listed the courses specified by the various departments for the academic majors and minors in the School of Education. Those who expect major or minor recommendations by the academic departments for teaching or on the normal or life diplomas, as required by the State Board of Education, should comply with the requirements made by the various departments. However, the academic major or minor graduation requirements will be fulfilled with the minimum of 35 or 20 credits respectively. For descriptions of the courses see the respective department statements.

## BACTERIOLOGY

*Academic Major:* Including courses 101, 102, 103, 104, 105, 106; total 36 credits.

*Academic Minor:* Courses 101, 102, 103, and electives to total 20 credits.

## BOTANY

*Academic Major:* Minimum 35 credits, including courses 105, 106, 107, and 140, 141, 142, or 143, 144, 145.

*Academic Minor:* Minimum 20 credits, of which at least 15 credits should be in courses above 100. For a minor recommendation to teach botany at least 25 credits.

Major students in botany should take at least a year of chemistry.

#### CHEMISTRY

*Academic Major:* Courses 21-22-23, 101, 111, 131-132; minimum 35 credits.

*Academic Minor:* Courses 21-22-23, 101, 111, or (131-132); or course 5-6, 135-136; minimum 20 credits. To be recommended to teach the subject the student must add 23 or 101; total 25 credits.

For the minor, students should have had at least high school physics; for the major they should have had a year of college physics. Four-fifths of grades in required courses must be at least C to secure a recommendation for teaching chemistry.

#### CIVICS

*Academic Major:* Political Science 1, Economics 1, Sociology 1; 15 elective hours in political science and 5 elective hours in economics or sociology. Minimum 35 credits.

*Academic Minor:* Political Science 1 and either Economics 1 or Sociology 1; 10 additional elective hours in political science. Minimum 20 credits.

#### CLASSICAL LANGUAGES AND LITERATURE

*Academic Major in Latin:* Greek 1 and 2, and 25 credits from Latin 21, 22, 23, 100, 101, 102, 107, 108, 109.

*Academic Minor in Latin:* Twenty credits from Latin 21, 22, 23, 100, 101, 102, 107.

*Academic Major in Greek:* Ten credits of Latin and 25 from Greek 1, 2, 3, 4, 5, 6, 101, 102, 103.

*Academic Minor in Greek:* Twenty credits from Greek 1, 2, 3, 4, 5, 6.

#### DRAMATIC ART

*Academic Major:* Courses 5, 9, 10, 61, 62, 101, 102, 127, 133, 151; total 35 credits.

*Academic Minor:* Courses 5, 9, 61, 101, 104; total 20 credits.

#### ENGLISH

*Academic Major:* Total of 35 credits, exclusive of freshman composition, at least half of which must be upper division courses. The major should include English 131, 170, 163, either 127 or 144 and two courses from English 174, 175, 137; senior examination.

*Academic Minor:* 20 credits, exclusive of freshman composition, which should include twelve credits from English 131, 170, 127, 144, 163, 174, 175, 137.

For either a major or a minor it is desirable to divide the time between extensive courses which give broad surveys and intensive courses which deal with limited periods or movements. It is required that the student maintain a uniformly good record in English courses offered either for a major or for a minor.



## ECONOMICS, BUSINESS ADMINISTRATION AND COMMERCIAL TEACHING

1. Students entering the School of Education from other colleges than business administration shall be required to take B.A. 62, 63, and 64, 15 credits (B.A. 1 and 2 are prerequisites for B. A. 62, 63, 64 and 103); B.A. 54, 55, and 56, 9 credits; B.A. 81 and 82, 10 credits; and B.A. 103; these courses to constitute a major in commercial teaching. This is on a basis of thirty-five hours minimum required for the major, minor and education minimums. Students from other colleges have already had two years of general training and hence do not need the same amount of free elective in the major field.

2. Students entering the School of Education from the College of Business Administration majoring in commercial teaching shall be required to elect 20 hours of upper division credit in addition to the requirements of the first two years of the College of Business Administration.

3. Students entering the School of Education from the College of Business Administration majoring in economics and business administration shall elect 20 hours of upper division credit (including B.A. 160) in the College of Business Administration in addition to the requirement of the College during the freshman and sophomore years. The remaining 15 hours shall include B.A. 108 and B.A. 106.

4. Students entering the School of Education from other colleges and proposing to major in economics and business administration shall elect their social science requirement of ten hours in B.A. 1 and 2. They shall also be required to elect 35 hours toward their major including the following courses: B.A. 103, 108, 61, 160 and 15 hours upper division electives.

5. A minor in either of the above groups—Commercial teaching or economics and business administration—shall consist of 20 hours specifically approved by the head of the department of secretarial training in the College of Business Administration.

## FINE ARTS

(See Public School Art and Music.)

## GEOLOGY

*Academic Major:* Courses under either a or b, as follows:

a. Courses 1a, 1b, 2, 21, 107, 120, 123, 124, 126, 131; minimum, 35 credits.

b. Courses 1a, 1b, or 12, 2, 10, 11, 107, 111, 112, 113, 116, 117, or 118; minimum, 35 credits.

*Academic Minor:* Courses under either a or b, as follows:

a. Courses 1a, 1b, 2, 21, 112; minimum, 20 credits.

b. Courses 1a, 1b or 12, 11, 107, 112; minimum, 20 credits.

## GERMANIC LANGUAGES AND LITERATURE

*Academic Major:* Minimum 35 credits, in addition to Education 160G.

*Academic Minor:* Minimum 20 credits.

Major recommendation for teaching, at least 27 credits in courses above 100, including Education 160G.

## HISTORY

*Academic Major:* Minimum 35 credits, including course 1-2. Electives on advice of the head of the department.

*Academic Minor:* Minimum 20 credits, including 1-2, or 5-6, or 57-58-59. Electives on advice of the head of the department.

## HOME ECONOMICS

*Academic Major* (for all branches of home economics): Courses 4, 5, 7, 8, 25, 107-108, 112-113, 116, 143, 144-145, 148; total 56 credits.

*Academic Major in Principles of Nutrition*: Courses 5, 7, 43, 107-108, 116, 145, 148, 190, 191; total 35 credits.

*Academic Minor in Principles of Nutrition*: Courses 5, 107-108, 116, 145; minimum 20 credits.

*Academic Major in Textiles and Clothing*: In addition to the minor 130-131, 133, 135, 148; total 35 credits.

*Academic Minor in Textiles and Clothing*: Courses 7, 25, 112-113, 143, minimum 20 credits.

## JOURNALISM

*Academic Major* in Journalism not offered in the School of Education.

*Academic Minor*: Courses 51, 101, 120, 150; total 20 credits.

## MATHEMATICS

*Academic Major*: Minimum 35 credits, including courses 5, 109.

*Academic Minor*: Minimum 20 credits, including courses 5, 6.

## MUSIC: (PUBLIC SCHOOL)

*Academic Major*: Courses 6, 9, 13, 16, 51, 53, 101, 113-114; total 35 credits.

*Academic Minor*: Courses 9, 13, 16, 56; total 20 credits.

## PHILOSOPHY

*Academic Major*: Minimum 35 credits, including course 101-102-103.

*Academic Minor*: Minimum 20 credits, including course 101-102-103.

## PHYSICAL EDUCATION FOR MEN

*Academic Major in Athletic Coaching*: The following curriculum is especially arranged for men who plan to prepare for coaching athletics and directing physical education in the public schools. Their first few years of service will be in the smaller high schools where athletic coaching must be combined with teaching academic subjects.

1. Students are advised to complete, in addition to the physical education major, (a) a second teaching major or (b) two teaching minors.

2. With the consent of the director of the department of physical education, courses in anatomy, physiology, and anthropometry may be counted in a physical education major.

3. Students intending to major in physical education in the School of Education should complete in the freshman year 10 hours in English 1-2, 10 hours in Zoology 1-2, (or 3-4) and 5 hours in Physical Education 1-2-3 which may be counted as scholastic credit for men who complete 10 hours in military science (or approved substitute); and in the sophomore year, 10 hours in Zoology 127, 128.

4. The academic teaching major or minors should be begun in the freshman and sophomore years.

5. Education 101 should be taken in the last quarter of the sophomore year or the first quarter of the junior year.

*Required Courses in Athletic Coaching:* 1-2-3, Calisthenics and Gymnastics, 5 credits; 101-102-103, Gymnastic Terminology, Principles and Technique of Teaching, 6 credits; 110, First Aid, 2 credits; 114, Physical Diagnosis, 3 credits; 113, Playground Supervision, 2 credits; 115, Organization and Administration, 2 credits; 131-132-133, Theory and Practice of Corrective Gymnastics, 9 credits; specific courses required, 29 credits.

*Suggested Electives:* 120, Theoretical Football, 2 credits; 121, Theoretical Basketball, 2 credits; 122, Theoretical Track Athletics, 2 credits; 123, Theoretical Baseball, 2 credits; 124, Theoretical Boxing and Wrestling, 2 credits; total electives, 6 credits; total 35 credits.

*Academic Minor in Athletic Coaching:* Minimum 20 credits including courses 101, 102, 103, 115.

#### PHYSICAL EDUCATION FOR WOMEN

*Academic Major:* Total of thirty-five credits to include Physical Education 101-102-103, 104-105-106, 111-112-113, 154-155-156, 170-171-172. (Courses necessary for recommendation from the department for teaching physical education in the larger high school—total of forty-nine credits including, Physical Education 101-102-103, 104-105-106, 111-112-113, 131-132-133, 152, 154-155-156, 170-171-172, 174, 175.) Practice Teaching, Education 145, additional in all cases except by exemption by the dean of the School of Education and the head of the department of physical education. Physiology 53-54-55, and Anatomy 101-102-103, are prerequisites for certain foregoing courses. The combination of anatomy and physiology may be used as a minor.

*Academic Minor:* Physical Education 111-112-113, 154-155-156, 170-171-172. Minimum 20 credits.

Students desiring to prepare for community recreation and leadership may select the following combination for an academic major in the department of physical education.

*Academic Major in Community Recreation and Leadership:* Dramatic Art 5; Sociology 1, 56, 57, 62; P.S. & D. 169--170-171; Phys. Edu. 104-105-106, 111-112-113, 154-155-156, 167, 169, 170-171-172, 179, 180, 174, 175. Minimum 35 credits in physical education. Substitution in sociology and fine arts may be made with the approval of the head of the department of physical education.

(Anatomy or physiology are not required for the courses in physical education mentioned in the foregoing paragraph.)

#### PHYSICS

*Academic Major:* Courses 1, 2, 3, and not less than 20 credits from other courses under 200; minimum 35 credits.

*Academic Minor:* Courses 1, 2, 3, and not less than 5 credits from other courses under 200; minimum 20 credits.

Recommendation as a major or minor for the normal diploma same as the foregoing with all grades above C.

#### POLITICAL SCIENCE

*Academic Major:* Courses 1, 101, 151, 161, and electives to make minimum of 35 credits.

*Academic Minor:* Courses 1, 101, 151, 161, minimum 20 credits.

For teaching civics, courses in history, economics and sociology are

desirable as supporting subjects. See also civics for combinations with economics and sociology.

#### PSYCHOLOGY

*Academic Major:* Courses 1, 101, 106, 108, 112, 124 and electives to make a minimum of 35 credits.

*Academic Minor:* Courses 1, 106, 112, and electives to make a minimum of 20 credits.

Recommendations for the normal diploma are made on the basis of quality rather than merely the required number of credits. Only high grade students can be recommended because of the specialized character of psychology work as a teaching subject.

#### PUBLIC SCHOOL ART

*Academic Major:* Courses 53, 54, 55, 101, 102, 105, 106, 151, 152, 160, 161; total 35 credits.

#### ROMANIC LANGUAGES AND LITERATURE

*Academic Major:* Minimum of 35 credits in one language.

*Academic Minor:* Minimum of 20 college credits in one language.

*Recommendation for Teaching French:* Courses 41, 101-102-103, 158, 159, Educ. 160T, and electives amounting to 9 or 10 credits in courses in French literature numbered above 115. At least 4 of the 9 or 10 credits shall be in courses in literature conducted in French.

*Recommendation for Teaching Spanish:* Courses 101-102-103, 159, Educ. 160 U, electives from literary courses 9 or 10 credits.

In many cases a part of the French or Spanish courses may have been taken in high school.

The distinction between major and minor recommendations for teaching French or Spanish are determined upon the basis of quality rather than quantity.

#### SCANDINAVIAN LANGUAGES AND LITERATURE

*Academic Major:* Minimum 35 credits.

*Academic Minor:* Minimum 20 credits.

*Suggested Minor in Swedish:* Courses 1-2-3, 4-5-6, 23-24-25; minimum 21 credits.

*Suggested Minor in Norwegian:* Courses 10-11-12, 13-14-15, 20-21-22.

Because of the diversity of previous preparation it will be necessary to consult the head of the department in each case.

#### SOCIOLOGY

*Academic Major:* Courses 1, 55, 56, 180, and electives to make a minimum of 35 credits.

*Academic Minor:* Courses 1, one from above, and electives to make a minimum of 20 credits.

Electives may be along one of three lines, viz: anthropology, social theory or social problems. Important basic and supplementary subjects, zoology, psychology, political science.

See civics for combination with economics and political science.

ZOOLOGY

*Academic Major:* Courses 1-2 or 54-55 and electives to make a minimum of 35 credits.

*Academic Minor:* Courses 1-2 or 54-55 and electives to make a minimum of 20 credits.

COURSES OF STUDY

For description of courses see Departments of Instruction section.

## LIBRARY SCHOOL

### THE FACULTY, 1927-28

Matthew Lyle Spencer, Ph.D. (Chicago).....	<i>President</i>
David Thomson, B.A. (Toronto).....	<i>Dean of Faculties</i>
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Assistant Dean of Faculties</i>
William Elmer Henry, A.M. (Indiana).....	<i>Professor of Library Science; Dean of the Library School</i>
Charles Wesley Smith, A.B., B.L.S. (Illinois).....	<i>Professor of Library Science</i>
Marie Smart Alfonso, A.B. (Nebraska), B.S. in L.S. (Washington).....	<i>Instructor in Library Science</i>
Marguerite E. Putnam, A.B. and B.S. in L.S. (Washington)...	<i>Instructor in Library Science</i>
Ruth Worden, B.A. (Wellesley), Certificate in Library Science (Wisconsin)....	<i>Instructor in Library Science</i>
Anne E. Hall, A.B. (Wellesley), Certificate in Library Science (Carnegie Library School, Pittsburgh).....	<i>Instructor in Library Science</i>

### GENERAL STATEMENT

The Library School offers professional education in librarianship.

Being an educational institution, a library should not be entrusted to persons of merely elementary acquirements. Its conduct requires a larger and more comprehensive educational equipment and outlook than can be had with less than that signified by the bachelor's degree.

The technical curriculum extends through three quarters—short in comparison with the academic curriculum, because the general educational equipment of the librarian is of larger significance than the technical education, but neither is sufficient without the other.

Graduates of the School are competent to take charge of a small public library or to take an assistant's place in any department of the larger libraries. After a reasonable experience in either of these positions, they have shown themselves competent to conduct libraries of medium size with excellent success.

### ADMISSION

Admission is granted as follows:

1. To graduate students who hold the baccalaureate degree from any college or university of good standing, whose undergraduate work in either or both high school and college has included the equivalent of at least twenty college credits each in two modern foreign languages, German and French preferred. Slight deficiencies in the languages, however, may be accepted as conditions, but must be removed within the period of study in the Library School.

2. To students who have qualified for senior standing in the College of Liberal Arts or in the elective curricula in the College of Science, having earned 145 credits, including 10 credits in military science, or physical education, and including all required work. However, students who lack not more than fifteen credits of senior standing (including the languages required above) may be admitted with permission of the dean, but such students must complete the 180 plus 10 hours required for graduation.

Initial admission to classes in the Library School is permitted only at the beginning of the college year in October except by special permission of the dean of the Library School. No one may be admitted to any course in the Library School curriculum except as an auditor, unless he is expecting to complete the entire curriculum.

### DEGREES

On completion of the curriculum in library science, (45 credits) either as a fourth year (or major) following three years in the College of Liberal Arts or the College of Science, or as a fifth (or graduate) year, the degree of Bachelor of Science in Library Science is granted.

**Loan Fund.**—By joint action of the Puget Sound Library Club and the Alumni Association of the Library School, a library school student loan fund has been established, to be known as the University of Washington Library School Loan Fund. This fund is available to students in the Library School who have been in attendance for at least a quarter and have made a satisfactory record. Its purpose is largely to meet emergency needs of the students, rather than to pay expenses through the year. It is administered by a committee of three of which the dean of the school is chairman. Applications to borrow from the fund should be made to him. The fund has been raised by voluntary contributions from the members of the club and the alumni and is open to contribution at any time.

#### ADVISORY SUGGESTIONS

The student entering the school should be a typist of accuracy and fair speed.

Practical service in a library prior to entering the library school is extremely advantageous to the student. We advise (and shall later probably require) that each student shall have had before entering the school at least one month's actual experience in a well conducted library. We shall be glad to assist any candidate for entrance to obtain this practical experience.

Students doing an inferior grade of work will be advised to discontinue work in the Library School. Grades below an average of B minus or C plus are too low. A poor scholastic record is not an adequate basis for a strong recommendation for library service.

As no one with serious physical defects or ill health can readily secure a position in library service, such persons should not ask admission to the School.

Persons beyond thirty years of age are advised not to enter the school unless they have already had experience in library service.

The dean of the Library School is the adviser for all pre-library school students, and electives are to be chosen only with his approval.

### CURRICULA

#### I. LIBERAL ARTS

A suggested curriculum for pre-library students entering from the College of Liberal Arts, and an outline of the year's work in the Library School is given below. The courses are arranged in the normal order of precedence. For those who take the library curriculum in the senior year no academic major is required as the technical training of the Library School constitutes this major. Academic subjects marked with the double dagger are required; those with a single dagger are strongly recommended; others are suggested electives. All Library School subjects are required.

#### FIRST YEAR

	<i>Credits</i>		<i>Credits</i>
English §1-2. Composition.....	10	Music 13. Appreciation.....	5
70, 71, 72. Shakespeare.....	9	*Mod. Lang. §1-2-3. French or German. 15	
64, 65, 66. Lit. Backgrounds.....	9	Psychology §1. General.....	5
*History 1-2. Medieval and Modern.....	10	Lib. Arts §1. Intro. to Mod. Thought..	5
5-6. Eng. Pol. and Social.....	10	Arch. 3. Appreciation.....	2
*Science. Bot., Geol. or Zool.....	10	*Latin §11, 13. Rom. Civ. and Lit.....	10

§ These requirements may be satisfied in high school or in college.

\* The Library School requires 20 hours each of two modern foreign languages, French and German preferred, in either high school or college.

† Students who have taken, or plan to take three or more years of ancient language may omit this requirement. Classical language requirement may be satisfied by either Latin or Greek.

## Library School

## SECOND YEAR

Credits		Credits	
*Mod. Lang. †Fourth qr. of foreign language previously taken.....	5	*Pol. Sci. †1. Comparative Gov't.....	5
Begin other lang. required by Library School .....	10	Sociology †1. Introduction <sup>1</sup> .....	5
*History †57-58-59. United States.....	9	62. Play and Leisure Time.....	3
*Greek †15-16. Civilization.....	10	Econ. †Introduction <sup>1</sup> .....	5
Anthropology 51. Evol. of Civ.....	5	7. Geog. Background of Industry....	5
Zoology 16. Evolution.....	2	61. Social and Econ. Standards.....	5
17. Eugenics .....	2	Lib. Arts. †11. Intro. to Fine Arts... 5	
		*Oriental Studies. 50, 51, 52. Orient. Lit. ....	10

## THIRD YEAR

Credits		Credits	
*Mod. Lang. Complete Library School Requirement .....	10	Oriental Studies. 114, 115, 116. Hist. of Religion .....	9
Phil. †1, 2 or 3. Introduction.....	5	120. Prob. Eastern Asia and Pac....	5
History. 125. Turkey and Near East..	5	English †134. Reformation in Eng....	3
†130. Europe, 1814-1870.....	5	†137. 19th Cent. Prose.....	3
†131. Europe Since 1870.....	5	†164, 165, 166. Am. Lit. From 1870 ..	9
Pol. Sci. 122. Foreign Affairs.....	3	174, 175. 19th Cent. Poetry.....	6
123. Intern. Relations.....	3	*Sci. Phys. 1-2 or Chem 1-2, or 5-6....	10
156. European Gov. & Pol. Insts....	3	German †106, 108. Ger. Lit. in Tr....	5
161, 162, 163. Governments.....	15	Rom. Lang. †118, 119, 120. Survey Fr. Lit. ....	9
†101. Constitutional Gov. in U.S. and Washington .....	2	†181, 182, 184. Ital. Lit. in Tr....	6
		Scand. Lit. 109, 110, 111. Mod. Auth. 3	
		180, 181, 182. Recent Lit.....	6

## FOURTH YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
175. Classification .....	3	184. Cataloging .....	3	192. Library Economy ..	2
176. Cataloging .....	3	185. Reference .....	2	193. Reference .....	2
177. Reference .....	2	186. Practice .....	5	194. Subject Bibliog. ..	2
178. Hist. of Books.....	2	187. Library Org. ....	2	195. Practice .....	5
179. Book Selection ...	3	188. Book Selection ...	2	196. Book Selection ...	2
		189. Children's Work ..	2	197. Administration ....	2
				198. Lectures .....	1

## II. SCIENCE

The following is a curriculum suggested for pre-library students in the College of Science. For those who take the library curriculum in the senior year no academic major is required as the technical training of the Library School constitutes this major. Subjects marked with the double dagger are required. The complete Library School curriculum, which constitutes the fourth year, is required.

## FIRST YEAR

Credits		Credits	
*Mod. Lang. †1, 2, 3. French or Ger... 15		Zoology †1, 2. Elementary.....	10
Astronomy 1. General.....	5	Lib. Arts 1. Intro. to Mod. Thought... 5	
Psychology †1. Introduction.....	5	Chem. †5-6. General.....	10

<sup>1</sup>This requirement may be satisfied by the first course in each of two of these (economics, sociology or political science), or the first course in any one of them together with five credits in another course for which the one taken first is a prerequisite.

<sup>2</sup>These requirements may be satisfied in high school or in college.

<sup>3</sup>The Library School requires 20 hours each of two modern foreign languages, French and German preferred, in either high school or college.

<sup>4</sup>Students who have taken, or plan to take three or more years of ancient language may omit this requirement. Classical language requirement may be satisfied by either Latin or Greek.



## SECOND YEAR

<i>Credits</i>		<i>Credits</i>	
*Mod. Lang. ‡Fourth quarter of for.		Zoology ‡16. Evolution.....	2
lang. previously taken.....	5	17. Eugenics .....	2
Begin other for. lang. required by		History 1-2. Mod. and Medieval.....	10
Library School .....	10	Geology ‡1, 2. General.....	10
Pol. Sci., Econ. or Soc. 1. Intro....	5	Music 18. Appreciation.....	5
English ‡1, 2. Composition.....	10		

## THIRD YEAR

<i>Credits</i>		<i>Credits</i>	
*Mod. Lang. ‡Complete Library School		Physics ‡89-90. Physics of the Home..	10
Requirement .....	10	History 180. Europe, 1814-1870.....	5
Botany ‡1, 2. General.....	10	181. Europe, since 1870.....	5
Lib. Arts 11. Intro. to Fine Arts.....	5	English 186, 187. 19th Cent. Prose...	6
Pol. Sci. ‡101. Const. Gov. in U.S.			
and Wash. ....	2		

## COURSES OF STUDY

For the work of the lower division and for courses in departments other than library science the sections of the catalogue relating to the Colleges of Liberal Arts and Science and Departments of Instruction should be consulted.

# COLLEGE OF BUSINESS ADMINISTRATION

## THE FACULTY, 1927-1928

Matthew Lyle Spencer, Ph.D. (Chicago)	.....President
David Thomson, B.A. (Toronto)	.....Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale)	.....Assistant Dean of Faculties
William E. Cox, A.M. (Texas)	.....Professor of Business Administration; and Dean of the College of Business Administration
Leslie James Ayer, B.A., J.D. (Chicago)	.....Professor of Law
James E. Gould, A.M. (Harvard)	.....Professor of Maritime Commerce
Howard H. Preston, Ph.D. (Iowa)	.....Professor of Business Administration
Carl S. Dakan, B.S. (Missouri)	.....Professor of Business Administration
Shirley J. Coon, Ph.D. (Chicago)	.....Professor of Economics and Business Administration
Hugh C. Frame, Ph.D. (Harvard)	.....Professor of Business Administration
Henry A. Burd, Ph.D. (Illinois)	.....Professor of Business Administration
Wilfred Eldred, Ph.D. (Harvard)	.....Associate Professor of Business Administration
Harry E. Smith, Ph.D. (Cornell)	.....Associate Professor of Business Administration
Macy M. Skinner, Ph.D. (Harvard)	.....Associate Professor of Business Administration
Karl E. Leib, J.D. (Stanford)	.....Associate Professor of Business Administration
Theresa McMahon, Ph.D. (Wisconsin)	.....Associate Professor of Economics
Homer E. Gregory, A.M. (Chicago)	.....Assistant Professor of Business Administration
Harry J. McIntyre, M.B.A. (Washington)	.....Assistant Professor of Mechanical Engineering
James M. McConahey, LL.B. (Northwestern), C.P.A.	.....Lecturer on Accounting
James P. Robertson, C.P.A.	.....Lecturer on Accounting
Pierce C. Davis, C.P.A.	.....Lecturer on Accounting
Oscar E. Draper, M.Acct. (Vories Business College)	.....Lecturer on Business Administration
A. R. Truax	.....Lecturer on Business Administration
Frank C. Van de Walker, M.B.A. (Washington)	.....Instructor in Business Administration
Frank H. Hamack, LL.B. (Georgetown)	.....Instructor in Business Administration
Charles Miller, M.B.A. (Washington)	.....Instructor in Business Administration
Ruth A. Grant, B.B.A. (Washington)	.....Assistant in Business Administration

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Frederick M. Padelford, Ph.D. (Yale)	.....Professor of English; Dean of the Graduate School
Robert Edouard Moritz, Ph.D. (Nebraska), Ph.N.D. (Strassburg)	.....Professor of Mathematics
Henry Kretzer Benson, Ph.D. (Columbia)	.....Professor of Chemical Engineering
Frederick Elmer Bolton, Ph.D. (Clark)	.....Professor of Education Dean of the School of Education
Effie Isabel Raitt, A.M. (Columbia)	.....Professor of Home Economics
Stevenson Smith, Ph.D. (Pennsylvania)	.....Professor of Psychology
Charles E. Martin, Ph.D. (Columbia)	.....Professor of Political Science
Edward McMahon, A.M. (Wisconsin)	.....Professor of American History

## GENERAL STATEMENT

The College of Business Administration seeks to give the student

1. That broad cultural training which every well-educated man must have.
2. A knowledge of the fundamentals of modern business principles upon which any business man, regardless of his particular field, must build.
3. A keen specialized training in some one major phase of business.
4. A contact with actual business as it is conducted.

## REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

In addition to the three units of English and the two units of mathematics required for admission to all colleges of the University, students expecting to enter the College of Business Administration should elect their work so as to offer one unit of typewriting and two units of history. A student who does not present one unit of typewriting from high schools is required to complete the equivalent of one unit before the end of his fourth quarter of residence. This requirement may be satisfied by electing B.A. 15 and 16 in the University.

Civics and economics may count toward the history requirement. If these subjects have not been included in high school elections, they must be elected in the University.

## GRADUATION

The College of Business Administration is a professional college. Its graduates receive the degree of bachelor of business administration (B.B.A.) The degree of bachelor of business administration is conferred on any student who has fulfilled the entrance requirements and who presents 190 credits in subjects required or approved by the faculty of the College of Business Administration.

The degree of master of arts (M.A.), or of master of business administration (M.B.A.) is conferred on students who complete in a satisfactory manner an approved course ordinarily requiring three quarters of advanced work beyond that required for the bachelor's degree. The degree of master of arts implies a major in business administration or economics and a minor in some related subject. The degree of master of business administration is a more technical degree, and implies that a candidate's work has been confined to business administration or economics. Before being recognized as a candidate for an advanced degree, a student must appear before a committee appointed by the dean of the Graduate School, which determines the student's fitness for such work and confers with him upon his proposed course of study.

Students entering from other colleges must satisfy not only the general requirements of the University but also the requirements of the College of Business Administration.

Not less than three-fourths of the credits required for graduation must be earned with grades of A, B, or C.

## CURRICULUM

All students in the College of Business Administration must have their selection of courses approved each quarter by a member of the college faculty. The college requires the following courses:

## PRE-BUSINESS CURRICULUM

## First Year

	<i>Credits</i>
B.A. 1, B.A. 2, General Economics.....	10
B.A. 7, Geographic Background of Industry.....	5
English 1, Written and Oral English.....	5
English 37, Argumentation.....	5
*Physics (10 hours) or Chemistry (10 hours) or Mathematics (10 hours) or Foreign Language (10 hours)**.....	10
Psychology 1 .....	5
Approved electives .....	5
	<hr/> 45+5

## Second Year

	<i>Credits</i>
B.A. 54, 55, 56, Business Law.....	9
History 57-58-59, History of the United States.....	9
B.A. 62, 63, 64, Accounting.....	15
B.A. 59, Graphic and Tabular Analysis of Business Problems.....	5
B.A. 60, Labor in Industry, or Sociology 1.....	5
Approved electives .....	5
	<hr/> 48+5

## BUSINESS CURRICULUM

## Third Year

B.A. 115, Business Correspondence.....	5
†B.A. 103, Money and Banking, or	
†B.A. 106, Economics of Marketing and Advertising, or	
†B.A. 108, Risk and Risk Bearing.....	10
†Political Science .....	5-7
††Approved electives .....	25-23
	<hr/> 45

## Fourth Year

B.A. 160, Advanced Economics .....	5
††Approved electives .....	40
	<hr/> 45

The requirements of the first two years are sufficiently broad to establish a foundation for the profession of business, regardless of the particular field in which the student may later be interested.

No student is allowed to enter the junior-senior courses in the College of Business Administration unless he has reached junior standing and satisfied the prerequisites to these courses. The prerequisites have been established after the most careful consideration of the standard of efficiency and performance aimed at in the course, and the educational value of the course for the student. To admit students who have not completed the carefully arranged prerequisites would imperil not only the quality of the work of the instructor, but also make it impossible for the students to get the full bene-

\*Students majoring in maritime commerce are required to take B.A. 49 (ship operation and B.A. 52 (navigation). This satisfies the requirement and they are therefore not required to take 10 hours of physics, chemistry, mathematics, or foreign language.

\*\*Students electing foreign language to satisfy this requirement who have not had 2 units of the language chosen in high school must take 20 hours in the college, ten hours of which will count as electives.

† Students are required to take 10 hours selected from the three courses, B.A. 103, B.A. 106, B.A. 108.

†† If Political Science 1 is selected students are not required to take Political Science 101.

†† Of the approved electives in the junior and senior years at least 25 hours must be in the upper division courses in economics and business administration.

fit of the course. The college realizes that certain just claims to exceptions from the above rules could be presented, and such exceptions can be granted to students whose maturity and extended experience in economic affairs of a suitable nature make it just and reasonable. Proof of these experiences and qualifications will be passed on by the dean of the College of Business Administration, and the committee on graduation.

The junior and senior years are largely reserved for the student's selected field of business interest. Each student or group of students is guided and assisted by the instructor designated for that department of work, under the general direction of the dean of the College of Business Administration.

### ECONOMICS

Students in the College of Liberal Arts or the School of Education choosing economics as their major, should consult with the head of the department or the professor in charge of advanced economics with regard to a proper selection of courses. A major in economics must include B.A. 160. The other courses to complete the requirements should be chosen from the following:

- |   |                                  |
|---|----------------------------------|
| 1. General Economics                        | 122. Principles of Investment    |
| 2. General Economics                        | 159. Advanced Money and Banking  |
| 60. Labor in Industry                       | 160. Advanced Economics          |
| 61. Social and Economic Standards of Living | 161. Labor Economics             |
| 103. Money and Banking                      | 162. European Labor Problems     |
| 104. Economics of Transportation            | 164. Land Economics              |
| 106. Economics of Marketing and Advertising | 165. Labor Legislation           |
| 108. Risk and Risk Bearing                  | 166. Women in Industry           |
| 121. Corporation Finance                    | 168. History of Economic Thought |
|   | 171. Modern Criticism            |
|   | 181. Economics of Consumption    |

### SUGGESTED COURSES FOR THE PROFESSIONAL FIELDS

Besides general training in economics the following fields of business training are suggested:

- |   |   |
|---|---|
| 1. Economics                                | 6. Management                               |
| 2. Accounting                               | 7. Insurance                                |
| 3. Finance                                  | 8. Marketing, Merchandising and Advertising |
| 4. Commercial Teaching and Secretarial Work | 9. Transportation and Maritime Commerce     |
| 5. Foreign Trade and Consular Service       |   |

In the third quarter of the sophomore year each student in the College of Business Administration will be required to select his major field. He is then placed in contact with an instructor working in that field and the approval of that instructor is required for his subsequent elections.

In addition to the requirements of the College of Business Administration listed on pages 127-128 a student majoring in any of the various fields open to election will be required to take certain fundamental courses in that field. These specific requirements naturally vary in each case. Beyond the college and departmental requirements the student is allowed considerable latitude in his election. These elections, however, must be made after consultation with and upon approval of his advisor.

### ECONOMICS

The courses offered in the department of economics appeal particularly to three classes of students: (1) those who wish to take advantage of the opportunity offered by the College of Business Administration but who do not care to specialize in any technical field; (2) students desiring to enter

the School of Law through the College of Business Administration but who do not desire to major in any special field of business; (3) students looking forward to teaching economics and business administration. This department emphasizes primarily economic theory in its broad aspects. The number of students interested in this work is increasing steadily.

#### ACCOUNTING

Three distinct groups of accounting courses are offered to meet specific needs of students after graduation. The first three courses (62, 63, 64), a graduation requirement of all business administration majors, are service courses enabling the average business man to interpret and control his own business through its records and accounts. The second three courses (110, 111, 112), prepare the student to serve in the capacity of treasurer, comptroller, or auditor in any business concern. The third group embracing eight courses (154, 155, 156, 157, 158, 184, 191) together with the preliminary work listed above constitute sufficient theoretical and technical training for professional certified public accountants examination and certificate. For non-business administration students a general preliminary survey course is obtainable in Course 65.

#### FINANCE

The first purpose of the courses in business finance is to give to all prospective business men and women the basic principles of sound financial policy and an understanding of the financial institutions with which the business manager has to deal. A second aim of the department is to train students for positions in commercial banks, investment houses, mercantile credit departments and financial departments in general business.

#### SECRETARIAL TRAINING AND COMMERCIAL TEACHING

*Secretarial Training.*—The courses making up the work in secretarial training in this college have as their aim the familiarizing of the student with the actual conditions found in the business office, the equipment and its operation, together with a technical training in the duties to be performed by the secretary and the clerk.

*Commercial Teaching.*—The University has had difficulty in filling calls for commercial teachers in the high schools. High schools have complained that they are unable to get properly trained teachers for their commercial departments. It is the purpose of the department to train such teachers, giving them as broad a training as is consistent with the proper technical knowledge of the subjects they will probably be required to teach.

#### FOREIGN TRADE AND CONSULAR SERVICE

*Foreign Trade.*—The aim of the department of foreign trade is to furnish the student with a knowledge and appreciation of the essential facts of world economic and trade conditions, of the geographic distribution of raw materials and manufactured products and the technique of their exchange. The courses in exporting and importing and trade with the various countries of the world, as supplemented by work in money and banking, marketing, commercial and maritime law, and marine insurance, are expected to prepare men and women for positions with export commission houses, the export departments of manufacturing concerns, customs brokers and the buying departments of large retail establishments.

*Consular and Diplomatic Service.*—The government trade and diplomatic services are in process of reorganization and there is an increasing demand for professionally trained men as representatives in foreign lands. The government requirements are exacting but the remuneration has become correspondingly more satisfactory and this fact added to the interest of the work and the prestige attached to such positions abroad has made foreign ser-

vice an attractive profession for college men who have the personal qualities and the training necessary for success in this field.

#### MANAGEMENT

These courses are intended to present developments in the field of business control. Recent progress, due to the increasing use of the corporate form of organization, has been very rapid. Combination of land, labor and capital for most effective use has become a separate and technical study. The training given here is designed to benefit several different classes of students. First (and largest) will be those who are specializing in other pursuits but who wish some knowledge of modern managerial methods, either because they wish to understand the control of the business units in which they are factors, or because they realize that they will probably have to exercise some degree of executive ability though they fill subordinate positions. Second are those who look forward to managerial or executive work as a profession. A percentage of this group will be interested in the technique of the control of the human element in industry, or employment management. Last are those students in other schools, notably science and engineering, who wish to broaden their training by a study of economics and particularly of modern progress in industrial relations.

#### INSURANCE

In insurance there are two objects kept in mind. One is to give the student who expects to engage in some form of insurance business after leaving the University the basic principles so that he will be able to advance more rapidly in his profession than if he lacked this fundamental knowledge. The other is to give to all students who register in insurance courses first a clear idea of the part which uncertainty plays in all life and business, and second enough knowledge with regard to particular kinds of insurance to enable him to handle intelligently his own needs for insurance.

#### MARKETING, MERCHANDISING AND ADVERTISING

*Marketing.*—The study of marketing involves the analysis of the commercial organization for transferring goods from producer to consumer. Different methods or systems of marketing have been developed appropriate to the different types of merchandise. Both general and specialized courses in marketing, together with election in other departments, are recommended to students majoring in this field. No attempt is made to prepare for any specific vocation, but majors in marketing should find their training useful in many lines of business activity.

*Merchandising.*—The aim of the merchandising work is to familiarize the student with the principles underlying the retail distribution of merchandise in unit stores, specialty shops, chain and department stores. These principles include the technique of buying, selling and pricing goods, sales promotion, control of stock, store operation, store organization and management, hiring, training and paying employees, and service to customers. Through apprenticeship work in the senior year the student lays the foundation of his business life before leaving college, securing first-hand information under supervision which insures development and progress.

*Advertising.*—Special courses, combined with studies in related fields, present the subject of advertising as one of the fundamentals of a sound marketing program. Majors in this field find opportunity for employment in advertising agencies; in the advertising departments of retail stores, wholesale houses, and manufacturing companies, and on newspapers.

#### TRANSPORTATION AND MARITIME COMMERCE

The work in transportation naturally divides itself into three fields. (1) Railway transportation. There are certain opportunities open to students desiring to engage directly in business. These are somewhat limited.

A much larger field of steadily increasing significance is that of traffic management with large industrial and commercial concerns. Men who are expert in rate making, routing and other problems of railway transportation are in constant demand by these concerns. (2) Maritime commerce appeals to students who are interested in foreign commerce and ocean transportation either in foreign positions or those on shipboard. The University provides splendid contacts for these men both in experience and in theoretical training. The advantageous position of Seattle is of particular interest to students who wish to follow this line of work. (3) Motor transportation. The amount of freight and passengers moved by motor vehicles is on the increase year by year and it has become a business of first importance.

#### PRE-LAW

Students desiring to enter the School of Law will be admitted to that school upon the completion of three years in the College of Business Administration. Students contemplating such a transfer should consult with the dean of the School of Law toward the close of their second year in business administration relative to their choice of electives in business administration.

#### GENERAL INFORMATION

*Textbooks—Syllabus Fees.*—Many courses in the College of Business Administration require textbooks. The faculty aims to keep textbook expense as low as is consistent with a high standard of class work.

Syllabus or consultation fees are asked in all courses. The service rendered is necessary and valuable. With the exception of three secretarial training courses, B.A. 81, 82, 83, at \$5, this fee has been fixed at \$.50 a course. A fee of \$10 will be asked for any one quarter of instruction in shorthand or typewriting, as these are not a part of the regular curriculum and must finance themselves.

*Library Facilities.*—The college is placing in the library a large number of supplementary reports. For many years government reports, containing a vast amount of material for the student of business, have been filed in the library. Most of the domestic journals in economics and commerce, as well as many foreign ones are received by the college. Each student is expected to make use of the material and report from time to time on current topics of interest.

*Student Organizations.*—A number of honorary and professional societies with national affiliations have been established at the College of Business Administration. Beta Gamma Sigma and Beta Alpha Psi (accounting), honorary fraternities, and Alpha Kappa Psi, a professional fraternity for men, at present count chapters in many institutions. Membership is based on high scholarship. Their aim is to promote serious study of business problems. Gamma Epsilon Pi, honorary, is a similar organization among the women specializing in business administration. Its purpose is not social, but professional, and membership is restricted to candidates for the B.B.A. degree. A number of prominent business women in Seattle and eastern cities are honorary members. Alpha Delta Sigma is a professional organization for men, and Gamma Alpha Chi for women, interested in advertising. The parent chapter of Pan Xenia, a professional and international society for major students in foreign trade, was founded in 1918 at the University of Washington and bids fair to play an important part in the future of our foreign trade department.

*Required Military Science and Physical Education.*—The University requirements in military science, physical education and hygiene are satisfied as follows:



Men students.—Freshmen and sophomores, five hours of military science per week each year.

Women students.—Physical education, five times per week for two years.

*Correspondence.*—Inquiries in regard to the College of Business Administration may be addressed to the dean of the college. All correspondence regarding admission should be sent to the registrar of the University.

*Contact with Actual Business.*—The business men of the state and especially of the city of Seattle, are cooperating in a most genuine way with the College of Business Administration. Students are encouraged to avail themselves of the many opportunities to do part-time work in local concerns along their chosen lines.

In addition to part-time employment an alternating quarter system of office practice and academic work has been established in the division of maritime commerce. The office practice work is made a definite part of the training.

During the senior year, or during a year of graduate work, students specializing in marketing, merchandising or advertising are given opportunity to spend alternate quarters in actual business under the immediate supervision of a field director. This plan involves either attendance at summer school or working under supervision during the summer between the junior and senior years. These apprenticeships are made possible by the active cooperation of business houses. They give the student the benefit of a favorable introduction to the best business practice, and also give him this introduction while he is still in college. His theories may be vitalized by supervision of department heads in the business and the teacher of theory in college discussing with him the application of theory to actual business as the student finds it.

*The Students' Advisory Council.*—The B.A. Council, organized in the autumn quarter of 1919 by the students of the college, is a representative body having as its members three officers, two representatives from each of the three upper undergraduate classes, one representative from the freshman class, and one from the graduate school. It functions in an advisory capacity on matters relating to standard of scholarship, student esprit-de-corps, cooperation between the faculty and the student body on other matters which are brought to its attention by the faculty or the student body. The regular business administration assemblies are organized and conducted under the direction of the council.

The mentor system is the conception of this council. The plan provides for the appointment of a group of senior and graduate students to meet the freshmen of the college at a certain appointed time in three conferences during the quarter. The mentors take the responsibility of seeing that every freshman student in his or her group gets the largest possible benefit out of his college life.

*Fellowships.*—The college is now in a position to grant several fellowships with the opportunity for assisting in the instruction. Address Dean of the College of Business Administration.

*Outside Lectures.*—The College of Business Administration supplements as far as possible the work given with practical lectures and discussions by business men. Many of the leading business men of Seattle and the state have delivered lectures in their special fields to classes.

#### COURSES OF STUDY

For description of courses see Departments of Instruction section.

# SCHOOL OF JOURNALISM

THE FACULTY, 1927-1928

Matthew Lyle Spencer, Ph.D. (Chicago).....	<i>President</i>
David Thomson, B.A. (Toronto).....	<i>Dean of Faculties</i>
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Assistant Dean of Faculties</i>
.....	<i>Dean of the School of Journalism</i>
Robert William Jones, A.B., LL.B. (Missouri), A.M. (South Dakota).....	<i>Associate Professor of Journalism</i>
Leo Arthur Borah, A.B. (Huron), A.M. (Washington).....	<i>Assistant Professor of Journalism</i>
Fred Washington Kennedy.....	<i>Director of the Journalism Laboratories</i>
Byron Hunter Christian, A.B. (Washington).....	<i>Instructor in Journalism</i>
John Barnsley Jones, A.B. (Detroit), A.M. (Gonzaga)....	<i>Acting Instructor in Journalism</i>
Mildred Lee Frudenfeld, A.B. (Washington).....	<i>Secretary to the Dean</i>

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Edmond Stephen Meany, M.L. (Wisconsin), LL.D. (College of Puget Sound)....	<i>Professor of History</i>
William Savery, Ph.D. (Harvard).....	<i>Professor of Philosophy</i>
Pierre Joseph Frein, Ph.D. (Johns Hopkins).....	<i>Professor of Romance Languages</i>
Stevenson Smith, Ph.D. (Pennsylvania).....	<i>Professor of Psychology</i>
Howard Woolston, Ph.D. (Columbia).....	<i>Professor of Sociology</i>
Leslie James Ayer, J.D. (Chicago).....	<i>Professor of Law</i>
Fred Carlton Ayer, Ph.D. (Chicago).....	<i>Professor of Education</i>
Charles E. Martin, Ph.D. (Columbia).....	<i>Professor of Political Science</i>
Dudley D. Griffith, Ph.D. (Chicago).....	<i>Professor of English</i>
Ambrose Patterson.....	<i>Associate in Fine Arts</i>
Frank H. Hamack, LL.B. (Georgetown).....	<i>Instructor in Business Administration</i>

## THE SCHOOL AND ITS EQUIPMENT

The first courses in journalism in the University of Washington were given in 1907. A department of journalism was established in 1909. In March, 1918, the department was formally made a school.

The professional courses in the School of Journalism and those prescribed in the Colleges of Liberal Arts and Science are planned with two aims in view—to offer instruction and practice in the fundamentals of newspaper work on both the business and editorial sides, and to provide such studies as are best adapted to give the broad training necessary for successful pursuits of journalism as a profession. In the first the courses include reporting, copy reading, editorial writing, advertising, cartooning, trade journalism, the mechanics of printing and publishing, and the practical work of the business and administrative offices. In the second are history, economics, political science, sociology, philosophy, psychology, language, literature, and similar subjects necessary in developing the broader scholarship indispensable in modern journalism.

This double ideal of the School of Journalism curriculum has justified itself in the steady demands of Pacific coast editors for University graduates.

*Equipment.*—Journalism and printing take up the entire first floor of Commerce Hall, 208 x 70 feet. On this floor are the class rooms, the journalism library and reading room, the faculty offices, the University Press, and all the mechanical equipment for teaching practical journalism. The University Press does virtually all the campus printing.

*Frederick A. Churchill Junior Memorial Library.*—In March, 1918, a

separate journalism library and reading room was opened, known as the Frederick A. Churchill Junior Memorial Library, in memory of a brilliant student of the school who died in 1916 while engaged in newspaper work in New York. The Memorial Library contains carefully selected books and periodicals relating to printing, advertising, current events, short story, and all phases of the editorial side of the newspaper.

*Journalism "Morgue."*—In the Memorial Library is a journalism "morgue," for newspaper and periodical clippings on current topics classified for instant reference. This contains biography, book reviews, and dramatic criticism, besides a continuous chronicle of events.

*Student Publications.*—The editorial and business offices of *The University of Washington Daily, Columns*, and *Tyee* are on the first floor of Commerce Hall. Ownership of these publications is vested in the Associated Students of the University of Washington. All are supervised by the School of Journalism, the staff members of each being recruited mainly from the school. All offer opportunities for practical experience in magazine and newspaper work. Places on the editorial and business staffs of each, awarded for the most part on a basis of literary and executive ability, are open to all students in the School of Journalism. Opportunity for wide experience in reporting, copy reading, editorial writing, and advertising is offered in the various departments of these publications.

*Journalistic Clubs.*—Five national organizations are maintained by students in the School of Journalism. Junior and senior men have a chapter of Sigma Delta Chi, one of the two national journalistic fraternities. Junior and senior women maintain a chapter of Theta Sigma Phi, the national journalistic sorority founded at the University of Washington in 1910. Members of *The Columns* staff have chapters of Hammer and Coffin, the national comic-magazine fraternity, and Sigma Upsilon, the national literary fraternity. Students specializing in advertising have also a chapter of Alpha Delta Sigma, national advertising fraternity for men.

*Opportunity for Self-Help.*—Because of the location of the University in a large city and the presence of numerous printing plants and publications within easy reach, there is excellent opportunity for students to earn part of their expenses while in school. During the past year more than three-fourths of the men in the School of Journalism were earning their way wholly or in part. The dean of the school has frequent calls from editors, publishers, and managers of printing plants for students with some experience to do part time work in advertising, publicity, and reporting. All the local newspapers and many of the more important dailies in neighboring cities maintain special reporters and correspondents at the University. Remuneration for the various kinds of work ranges up to \$100 a month, according to the service given. Promise of employment, however, cannot be made in advance. Positions usually are given those on the ground who are able to show by actual experience that they can do the work required. In general, a student should have an assurance of \$500 or more before enrolling in the School of Journalism, and no one should expect to earn all or even a part of his expenses during his first quarter of residence.

*Admission.*—On successful completion of 90 plus 10 credits of prescribed and elective work at the University of Washington, or an equivalent amount from another institution of accredited standing, students are granted upper division standing, which admits to the School of Journalism. (See College of Liberal Arts section, page 80.) Students not having upper division standing may be admitted, on recommendation of the dean, to courses in the School of Journalism if they (1) are proficient in English composition and typing, (2) have had sound training in history, economics,

politics, and sociology, and (3) have had not less than a year's experience in newspaper work or other professional writing. Credit toward graduation is not granted for newspaper work except when such work is done under the direct supervision of an accredited instructor.

*Fees.*—In certain courses in journalism laboratory fees are charged. These go toward purchase of textbooks, student materials, community typewriters of which the school has nineteen—and toward subscriptions for newspapers and periodicals, of which the school takes forty or fifty annually, in addition to a large number of weeklies that come to the dean's desk on exchange. The number of courses requiring fees varies from year to year. In 1927-1928 the maximum laboratory fees in journalism, in addition to the regular University fees, will not be more than \$2.50 a quarter for any student, regardless of the number of courses taken.

*Pre-Journalism Majors.*—The dean of the School of Journalism is the adviser for all students in journalism from the beginning of the freshman year. Registration of pre-journalism majors at the beginning of each quarter is held in the dean's office. To him should be taken questions about coordinating courses in other schools and any matters touching scholastic problems.

*Journalism Curriculum.*—From the beginning of the freshman year a specific curriculum of studies (see page 137) is required of students expecting to major in journalism. Courses in news writing, the profession of journalism, current events, and the community newspaper are open to lower division students. Entrance to the School of Journalism is granted on ability shown by the individual in these courses to do newspaper work successfully. A minimum of 90 plus 10 credits must be earned before entrance.

*Minor in Journalism.*—Students wishing to minor in journalism must include the following courses in their minor: Journalism 51 (News Writing), 101 (Reporting), 120 (Copy Reading), and 150 (Editorial Writing)—a total of twenty hours.

*Shorthand and Typewriting.*—All written work in the School of Journalism must be done on a typewriter. Both shorthand and typewriting are required for graduation. Prospective students may save themselves much time, however, by learning shorthand and typing before entering the University. Tests in each are given quarterly. Those passing the tests successfully are excused from the University courses.

*Graduation.*—The curriculum of the School of Journalism leads to the degree of bachelor of arts in journalism, for which 180 credits must be obtained, plus 10 hours in physical training or military science. Fifty of these credits must be in journalism, with an average class grade of 86 or better. At the discretion of the journalism faculty, any student not maintaining this grade may be dropped from the school. A written examination covering the required courses in journalism is required of seniors not less than two weeks before the end of the quarter preceding graduation. A student holding a bachelor's degree from a recognized college or university may obtain a degree in journalism by fulfilling the additional requirements. Usually the time demanded is not less than four quarters.

*Graduate Study.*—Advanced courses in journalism, history, economics, political science, sociology, and English are offered students wishing to take graduate study in preparation for newspaper work or teaching journalism. A wide demand exists in high schools, colleges, and universities for instructors adequately trained to teach journalism. The University library contains a large collection of bound newspapers and magazines and furnishes

unusual opportunity for a historical study of American journalism. Special provision is made for directing the work of graduate students interested in historical, political, psychological, or language studies in journalism. The courses required are determined by the nature and amount of undergraduate work the candidate has done in journalism and the phase of it in which he wishes to specialize such as advertising, the business office, trade journalism, or the purely editorial field. A thesis constitutes one of the requirements. On completion of the requisite number of hours, the degree of master of arts in journalism is granted by the University.

*Specialization.*—Students looking forward to specialized branches of journalistic work, such as trade or class journalism, advertising, or the business office, will find the School of Journalism particularly well equipped to aid them. While emphasis is laid on the editorial side of the newspaper field, provision is made in the curriculum for practical training in other departments as well. In general, however, students are advised to obtain as thorough a comprehension of the fundamentals of newspaper work and as broad a general education as possible rather than to attempt specialization in a limited field.

## CURRICULUM

Requirements for the degree of bachelor of arts in journalism are scheduled below. The courses are arranged in the order in which they normally follow each other. Those with a double dagger are required. Those marked with a single dagger are regarded as essential. Others are suggested electives. The University requirements of Military Science and Physical Education must be met in addition to those noted below.

FIRST YEAR<sup>1</sup>

Credits		Credits	
Arch. 3. Appreciation.....	2	Jour. 1. Jour. as a Profession.....	1
Econ. 1. †Gen. Econ.....	5	Lib. Arts 1. †Intro. to Mod. Thought.....	5
15. †Typewriting .....	0	†Mil. Sci. or Phys. Ed.....	5
English 1. †Comp.....	5	Pol. Sci. 1. †Comparative Gov't.....	5
64, 65. †Lit. Backgrounds <sup>2</sup> .....	10	Science .....	15
Hist. 5-6. Eng. Pol. & Soc. Hist.....	10	Soc. 1. †Intro. Soc.....	5

## SECOND YEAR

Credits		Credits	
Arch. 112, 113. Freehand Dr.....	4	†Mil. Sci. or Phys. Ed.....	5
Econ. 103. Money and Banking.....	5	Music 13. Appreciation.....	5
59. Graph. & Tab. Anal. of Bus....	5	6. Hist. of Music.....	5
61. Soc. & Econ. Stan'ds of Liv....	5	Latin 11. †Roman Civ. <sup>3</sup> .....	5
62, 63. Accounting .....	10	Phil. 5. Intro. to Logic <sup>4</sup> .....	5
106. Econ. of Markets.....	5	Psychology 1. †Gen. Psychology.....	5
18, 19. Shorthand I and II.....	0	Science .....	15
English 67, 68, 69, †Great Am. Writers	6	Sociology 56. Family Life.....	3
For. Lang. ....	10	57. Child Welfare .....	3
Greek 11. †Greek Civ. <sup>3</sup> .....	5	62. Play and Leisure Time.....	3
Hist. 57-58-59. †Hist. of the U.S.....	9	63. Community Organ. ....	6
71-72-73. Ancient Hist.....	9	71. Immigration .....	6
Jour. 61. †News Writing.....	5		
61. †Community Newspaper.....	3		

<sup>1</sup>If a student has not had in high school the sciences prescribed for junior standing in Liberal Arts, he is required to take ten hours of chemistry or physics and ten hours of botany or geology or zoology in the University. Students entering without foreign language are required to take twenty hours of a modern foreign language in the University without credit.

<sup>2</sup>English 66 may be substituted for either English 64 or English 65.

<sup>3</sup>Students who have taken, or who plan to take, three or more years of ancient language, may omit this requirement. Greek 13 or Latin 13 may be substituted respectively for Greek 11 or Latin 11.

<sup>4</sup>Philosophy 1 or Philosophy 8 may be substituted for this requirement.

## THIRD YEAR

Credits		Credits	
Arch. 101-102-103. Hist. of Architecture	6	131. †Display Advertising	5
Ast. 1. Gen. Astronomy	5	133. Adver. Typography	5
Dram. Art 101-102-103. Play Acting	9	135. Publicity	2
111, 112, 113. Play Writing	15	136. †Comparative Journalism	3
Econ. 54, 55, 56. †Bus. Law	9	138. †History of Journalism	5
104. Econ. of Transportation	5	140. †Business Office	5
105. Bus. Organization	5	Foreign Language	10
138. Sales Management	5	Latin 11. †Roman Civilization <sup>2</sup>	5
English 70, 71. †Shakespeare <sup>3</sup>	6	Ori. Studies. 114, 115, 116. Hist. of	
98. †The Bible as Literature	3	Religion	9
104, 105, 106. Contemporary Lit.	9	Phil. 101-102-103. Hist. of Phil.	9
137. †19th Century Prose	3	Pol. Sci. 111. Hist. of Pol. Theory	3
History 130. Europe 1814-1870	5	112. American Pol. Theory	3
131. Europe Since 1870	5	113. Contemporary Public Thought	3
147. Civil War Period	3	121. For. Relations of the U.S.	3
148. Reconstruction Period	3	122. American Foreign Affairs	3
149. National Development	5	123. International Relations	3
Journalism 90, 91, 92. †Current Events	1	Psychology 109. Mental Tests	3
101. †Reporting	5	111. Hist. of Psychology	2
104. †Newspaper Admin.	2	126. Abnormal Psychology	3
105. The Sporting Page	2	Romanic Lang. 118, 119, 120. Survey of	
109. Lit. and Dram. Review	2	French Lit.	9
115. †Elements of Publishing	3	Science	9
120. †Copy Reading	5	Sociology 130. The Social Survey	5
128. Foreign Correspondence	2	131. Social Statistics	5
130. †Fundamentals of Advertising	5		

## FOURTH YEAR

Credits		Credits	
Econ. 121. Corporation Finance	5	163-164-165. †Northwest Hist.	6
150. Railroad Finance	5	Jour. †145. Law of the Press	3
161. Labor Problems	5	150. †Editorial Writing	5
162. European Labor Problems	5	160. Trade Journalism	5
168. Hist. of Econ. Thought	5	170-171-172. Magazine and Feature	
175. Adv. Business Statistics	5	Writing	6
198. Marketing and Advertising	5	173. The Short Story	3
Educ. 101. Intro. Study of Educ.	5	174-175. Short Story Writing	6
161. Hist. of Educ.	5	Pol. Sci. 152. Amer. Pol. Parties	5
163. American Educ.	5	154. Public Finance	3
160K. Teacher's Course, News Writing	2	161. Municipal Government	5
English 161-162-163. Hist. Amer. Cult.	9	162. Municipal Administration	5
164, 165, 166. Amer. Lit. Since 1870	9	163. State Government	5
174-175. †19th Cent. English Poetry	6	Science	15
Foreign Language	10	Sociology 155. Social Legislation	3
Hist. 153. †The Pacific Rim	3	156. Criminology	3

**Advertising.**—Students expecting to make advertising a profession should elect the following courses from those scheduled above: Architecture 112, 113 (Freehand Drawing); Economics 106 (Economics of Markets); Economics 175 (Business Statistics); Economics 145 (Trade of the Americas); Journalism 130 (Fundamentals of Advertising); Journalism 131 (Display Advertising); Journalism 133 (Advertising Typography); Journalism 160 (Trade Journalism). All these will be found of particular value in advertising work.

**Short Story Writing.**—Students interested particularly in short story writing should select as many as possible of the following courses, the first four in the order named: Journalism 51 (News Writing), Journalism 101 (Reporting), Journalism 170, 171, 172 (Magazine Writing), Journalism 173, 174, 175 (Short Story Writing), Dramatic Art 101, 102, 103, (Play Acting), Dramatic Art 111, 112, 113 (Play Writing), Psychology 1 (General Psychology), Psychology 118 (Folk Psychology), Psychology 126 (Abnormal Psychology), Psychology 131 (Child Psychology).

## COURSES OF STUDY

For description of courses see Departments of Instruction section.

<sup>2</sup>Students who have taken, or who plan to take, three or more years of ancient language, may omit this requirement. Greek 13 or Latin 13 may be substituted respectively for Greek 11 or Latin 11.

<sup>3</sup>English 72 may be substituted for either English 70 or English 71.

# COLLEGE OF ENGINEERING

THE FACULTY, 1927-1928

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale).....	Assistant Dean of Faculties
Carl Edward Magnusson, Ph.D. (Wisconsin), M.S., E.E. (Minnesota).....	Professor of Electrical Engineering; Director of Engineering Experiment Station; Dean of the College of Engineering
Everett Owen Eastwood, C.E., M.A. (Virginia), S.B. (Massachusetts Institute of Technology).....	Professor of Mechanical Engineering
Charles Church More, M.S., C.E. (Lafayette), M.C.E. (Cornell)....	Professor of Structural Engineering
†William Franklin Allison, B.S. (C.E.) (Purdue), C.E. (Cornell).....	Professor of Municipal and Highway Engineering
Henry Kreitzer Benson, Ph.D. (Columbia).....	Professor of Chemical Engineering
Edgar Allan Loew, E.E. (Wisconsin).....	Professor of Electrical Engineering
Frederick Kurt Kirsten, E.E. (Washington).....	Professor of Electrical Engineering
George Samuel Wilson, B.S. (Nebraska).....	Professor of Mechanical Engineering
Charles William Harris, C.E. (Cornell).....	Professor of Hydraulic Engineering
Arthur Melvin Winslow, Ph.B. (Brown), B.S. (Massachusetts Institute of Technology).....	Professor of Mechanical Engineering
Charles Culbertson May, B.S., (C.E.) (Washington).....	Associate Professor of Civil Engineering and Architecture
Ira Leonard Collier, C.E. (Washington).....	Assistant Professor of Civil Engineering
Gordon Russell Shuck, E.E. (Minnesota).....	Assistant Professor of Electrical Engineering
Gilbert S. Schaller, B.S., (M.E.) (Illinois) M.B.A. (Washington).....	Assistant Professor of Shop Engineering
Elgia Roscoe Wilcox, Met.E. (Washington).....	Assistant Professor of Civil Engineering
Harry J. McIntyre, B.S. (M.E.) (Washington), M.B.A. (Washington)...	Assistant Professor of Mechanical Engineering
Warren L. Beuschlein, B.S. (Ch.E.) (California Institute of Technology), M.S. (Ch.E.) (Washington).....	Assistant Professor of Chemical Engineering
Frank M. Warner, B.S. (M.E.) (Wisconsin)....	Assistant Professor of General Engineering
Byron Towne McMinn, B.S. (Oregon Agricultural College), M.S. (Washington)...	Assistant Professor of Mechanical Engineering
George Lisle Hoard, M.S. (E.E.) (Washington).....	Assistant Professor of Electrical Engineering
Robert H. G. Edmonds, B.S. (Whitman), M.S. (M.E.) (Washington)....	Assistant Professor of Mechanical Engineering
George S. Smith, B.S. (E.E.) (Washington)...	Assistant Professor of Electrical Engineering
*Alfred Lawrence Miller, C.E. (Washington).....	Assistant Professor of Civil Engineering
James Baker Hamilton, B.S. (C.E.) (Washington)...	Assistant Professor of Civil Engineering
Austin V. Eastman, B.S. (E.E.) (Washington).....	Instructor in Electrical Engineering
Roy E. Lindblom, B.S. (E.E.) (Washington).....	Instructor in Electrical Engineering
Sergius Amalleff, B.S. (M.E.) (Washington).....	Instructor in General Engineering
Hiram M. Chittenden, B.S. (C.E.) (Washington).....	Instructor in General Engineering
George E. Hawthorn, C.E. (Washington).....	Instructor in General Engineering
Robert B. Van Horn, C.E. (Washington).....	Instructor in General Engineering
Frederick B. Farquharson, B.S. (M.E.) (Washington)...	Instructor in General Engineering
Henry G. Robinson, B.S. (E.E.) (Washington).....	Instructor in General Engineering
Frederic C. Smith, B.S. (C.E.) (Washington).....	Instructor in General Engineering
Theodore Bergstrom, B.S. (E.E.).....	Instructor in Electrical Engineering
John Wier, B.S. (E.E.) (Washington).....	Instructor in Electrical Engineering
George McPhail Smith, Ph.D. (Freiburg).....	Professor of Inorganic Chemistry
John Welozirl, Ph.D. (Wisconsin), Dr.P.H. (Harvard).....	Professor of Bacteriology
Leslie James Ayer, B.S. (Upper Iowa), J.D. (Chicago).....	Professor of Law
Joseph Daniels, S.B. (Massachusetts Institute of Technology), M.S. (Lehigh)....	Professor of Mining Engineering and Metallurgy
Henry Louis Brakel, Ph.D. (Cornell).....	Associate Professor of Engineering Physics
George Irving Gavett, B.S. (C.E.) (Michigan).....	Associate Professor of Mathematics
Lewis Irving Nelkirk, Ph.D. (Pennsylvania).....	Assistant Professor of Mathematics
Samuel Herbert Anderson, Ph.D. (Illinois).....	Associate Professor of Physics
Amy Violet Hall, A.B., A.M. (Washington).....	Associate in English

\*Absent on leave 1927-28.

†Died July 7, 1927.

## COLLEGE OF ENGINEERING

## GENERAL INFORMATION

The purpose of the College of Engineering is to give thorough training in engineering fundamentals, so essential to success in all branches of the engineering profession, and to provide instruction for specialization in the main fields of engineering. For administrative purposes the college is divided into seven departments: aeronautical, chemical, civil, electrical, mechanical and general engineering and engineering shops. The College of Engineering offers six four-year curricula (see pp. 11-14) leading to the degree of bachelor of science in the respective branches of chemical, civil, electrical and mechanical engineering but all are required to take the fundamental subjects on which engineering is based. The curricula consist largely of required courses, but a sufficient number of electives are provided in the junior and senior years to give each student the training that will best serve his case.

The location of the University is particularly favorable for engineering students. Seattle and the Puget Sound region offer exceptional opportunities for the student engineer to observe the practical application of engineering principles in all lines. The many large and readily accessible hydro-electric power plants, electric transmission and distribution systems and the development of the state's vast water power resources, offer unexcelled opportunities for the study of power engineering. Airplane, factories, iron and steel works, wood-pulp and lumber mills, nitrogen fixation plants, ship building yards, docks, waterways, steam and electric railways, bridges, buildings, and a great variety of industrial plants, give students in all fields abundant opportunities to study and observe the application of fundamental engineering principles.

## GENERAL ENGINEERING

The freshman work is identical for all the curricula in the Colleges of Engineering and Mines and is given by the department of general engineering. The aim is to give the student an early contact with engineering situations in which he can make application of the fundamentals of mathematics and physics, and to assist him in the formation of good habits of work and study so that he may obtain maximum return on his investment in an engineering education. To assist in realizing these ideas individual work is insisted upon in all courses and the student is given much personal coaching by his instructors. As a part of the courses the various fields of engineering are discussed enabling the student to make a more intelligent choice of his particular line of work. The choice is made at the beginning of his sophomore year. Engineering problems (G.E. 11-12-13) are planned to obtain these results and comprise a distinctive feature of the college.

Another feature of the freshman year is the study given the personal traits and aptitudes of the individual student. This phase of the work is done by the freshman advisor who is also in charge of all the general engineering courses. His advice and assistance on their personal problems is available to all students in the department.

## AERONAUTICAL ENGINEERING

The courses in aeronautical engineering are arranged so as to give the student a thorough knowledge of the fundamentals of aerodynamics and an introduction into practical design of heavier and lighter-than-air flying machines. A field trip to the local airplane factory, one of the largest in the country, and occasional lectures by experienced designers and active aeronautical engineers serve to familiarize the student with the latest developments in this branch of engineering.



**CHEMICAL ENGINEERING**

Chemical engineering is given under the direction of the department of chemistry and chemical engineering. It deals with the unit process of the manufacturing industry. Training in this subject includes not only general courses in engineering but also specific training in analytical, organic and physical chemistry. The application of chemical technique to manufacturing processes is made in specially developed courses in industrial chemistry and chemical engineering.

Chemical engineers are in charge of many important industries such as the manufacture of chemicals, petroleum products, the production of materials used in construction, fuels, paints, explosives and a great variety of organic products. The design of apparatus, chemical research, and the development of control methods play an important part in the career of the chemical engineer.

**CIVIL ENGINEERING**

Courses leading to the following branches of civil engineering are given:

Surveying, including the making of city and geological surveys, and surveys for engineering constructions.

Highway and railroad engineering, which deals with the location, construction and maintenance of city streets, highways and railways.

Hydraulic engineering, which deals with the laws governing the flow of water, and their applications to water supply of communities, to water power development, design of hydraulic machinery, river and harbor improvement, and the reclamation of land by drainage and irrigation.

Sanitary engineering, which deals with problems relating to the protection and preservation of the health of communities, including the design of water supply and sewerage systems, and sewage disposal works.

Structural engineering, which deals with the details of the design and construction of steel, concrete and timber structures, such as bridges, buildings, dams, retaining walls, and their foundations.

Material testing, which deals with the inspection and proper use of the materials of construction including timber, steel and concrete.

**ELECTRICAL ENGINEERING**

Mastery of the basic laws of direct currents, alternating currents and electric transients is essential to progress in any branch of electrical engineering. The foundation for specialization in any field is laid in the required courses of the electrical engineering curriculum. Elective courses are offered in electrical communication, telephones, telegraphs and radio, in illumination, electric machine design, electric railways, central stations and power transmission. The required and elective courses supplemented by seminars, thesis and research give ample opportunities for every student to follow his bent and secure training best suited to his talents. Special attention is given to the economic generation, transmission and distribution of hydro-electric power and to electric transients.

**MECHANICAL ENGINEERING**

The department of mechanical engineering aims to prepare the student to enter the various branches of mechanical engineering work including: design, operation and superintendence of machinery, fuel economy and power plants; structural materials; heating and ventilation; gas engineering; refrigeration; automobiles; commercial engineering; navel architecture and marine engineering.

## ENGINEERING LABORATORIES

For description of laboratories see page 31.

## REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

In addition to the three units of English and the two units of mathematics required for admission to all colleges of the University all students expecting to enter the College of Engineering should elect their work so as to offer the following subjects:

Advanced algebra .....	½ unit
Solid geometry .....	½ unit
Physics .....	1 unit
Manual Training .....	½ unit

If the student does not include these subjects in his high school elections, it will be necessary for him to take them in the University in addition to the prescribed curriculum.

## PREPARATION IN ALGEBRA FOR ENGINEERING

All students entering the College of Engineering will be tested in high school algebra by class work and by an examination given shortly after the beginning of the first quarter. It is essential that students in the engineering courses shall possess a good working knowledge of algebra *at the beginning of their course*, and it is the purpose of the test to secure this by requiring a review of the subject shortly before entering the University. Students failing in the test are not permitted to continue with regular freshman engineering mathematics, but are required to take a review of preparatory algebra (Math. 1, College of Science) during the first quarter.

In performing the fundamental operations of algebra, such as multiplication and division, the use of the parentheses, the solving of numerical and literal equations of the first and second degrees, the simplification of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should have distinct notions of the meaning and reasons for all that he does, and be able to state them clearly in his own language. He should be able to perform all these operations, even though somewhat complex, with rapidity, accuracy, and neatness. In his preparatory studies the student is advised to solve a great many practical problems and to describe fully the reason for the steps taken.

## CURRICULA AND DEGREES

The College of Engineering offers four-year curricula in each of the departments of chemical, civil, electrical and mechanical engineering leading to the degree of bachelor of science in the respective branches of engineering, as B.S. in civil engineering. A more general training leading to the degree of bachelor of science (B.S.) is scheduled under commercial engineering, and should be followed by a year of graduate work which, under the university regulations for advanced degrees, leads to the degree of master of science (M.S.).

**Thesis.**—The graduating thesis will consist of research or design in some branch of engineering, or review of some existing construction. The subject must be approved by the professor in charge of the department under which it is classified.

**Degrees with Honors.**—A degree with honors in engineering may be conferred upon any student of the College of Engineering who, upon recommendation of the engineering faculty, of the honors committee and by vote of the university faculty, may be declared worthy of unusual distinction.

**Advanced Degrees.**—The degrees of master of science in civil engineering (M.S. in C.E.), master of science in electrical engineering (M.S. in E.E.), master of science in mechanical engineering (M.S. in M.E.), and master of science in chemical engineering (M.S. in Ch.E.), respectively, will be conferred on graduates of this college, or other engineering colleges of recognized standing who complete a year (45 credit hours) of graduate work, including a satisfactory thesis, with the grade of A or B. The candidate must comply with regulations of the Graduate School and pass a formal examination open to all members of the faculty. Selection of work for this degree must, in each case, be approved by the head of the department in which the student majors and the Graduate Council.

The professional degrees, chemical engineer, (Ch.E.), civil engineer (C.E.), electrical engineer, (E.E.), and mechanical engineer, (M.E.), will be conferred in three years on graduates of this college holding the degree (B.S.) or (M.S.) in their respective lines, who give evidence of having been engaged continuously in acceptable engineering work and who present satisfactory theses.

#### CURRICULA OF THE COLLEGE OF ENGINEERING FOR THE FRESHMAN YEAR IN ALL DEPARTMENTS

##### FRESHMAN

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Trig. Math. 51.....	4	Alg. Math. 52.....	4	Anal. Geom. Math. 53... 4	
Engr. Prob. G.E. 11....	3	Engr. Prob. G.E. 12....	3	Engr. Prob. G.E. 13....	3
Gen. Chem. 1 or 21....	3	Gen. Chem. 2 or 22....	5	Gen. Chem. 23.....	5
Drawing, G.E. 1.....	3	Drawing, G.E. 2.....	3	Surveying G.E. 21.....	3
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%	
	16%		16%		16%

##### IN CHEMICAL ENGINEERING

#### Leading to the degree of Bachelor of Science in Chemical Engineering

##### FRESHMAN

The same for all curricula. See above.

##### SOPHOMORE

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Quant. Chem. 109.....	5	Quant. Chem. 110.....	5	Qual. Chem. 101.....	5
Mechanism—M.E. 81....	3	Steam Eng.—M.E. 82... 3		Steam Lab.—M.E. 83... 3	
Diff. Cal.—Math. 61 ... 3		Int. Cal.—Math. 62.... 3		Chem. Tech. Ch. 52.... 3	
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%	
	17%		17%		17%

##### JUNIOR

Indus. Chem. 121.....	5	Indus. Chem. 122.....	5	Indus. Chem. 123.....	5
English 100.....	3	Org. Chem. 128.....	5	Org. Chem. 129.....	5
Mach. Design—M.E. 91. 2		Mach. Design—M.E. 92. 2		A.C. Cur.—E.E. 121... 4	
Dir. Cur.—E.E. 101.... 4		Mechanics—C.E. 131 ... 3		A.C. Lab.—E.E. 122... 2	
D.C. Lab.—E.E. 102.... 2					
	16		15		16

## College of Engineering

## SENIOR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Phys. Chem. 181.....	5	Phys. and Theoret.		Chem. Engr 173.....	3
Chem. Engr. 171.....	5	Chem. 182 .....	5	Pol. Sci. 101.....	2
Chem. Engr. Thesis 170	2	Chem. Engr. 172.....	5	Electives .....	11
Shop 55 .....	1	Chem. Engr. Thesis 177.	3		
Electives .....	3	Electives .....	3		
	<u>16</u>		<u>16</u>		<u>16</u>

Electives must in all cases be approved by the head of the department.

## IN CIVIL ENGINEERING

### Leading to the degree of Bachelor of Science in Civil Engineering

## FRESHMAN

The same for all curricula. See page 143.

## SOPHOMORE

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Mech.—C.E. 01 .....	3	Mech.—C.E. 02 .....	3	Mech.—C.E. 03 .....	3
R.R. Surv.—C.E. 22.....	4	Quant. Surv.—C.E. 71... 1		C.E. Draw.—C.E. 75... 1	
St. Engr.—M.E. 82.....	3	St. Engr. Lab.—M.E. 83. 3		Econ.—B.A. 3 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Mil. Sci. or Phys. Ed... 1½		Calc.—Math. 61 .....	3	Calc.—Math. 62 .....	3
		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	
	<u>16½</u>		<u>16½</u>		<u>16½</u>

## JUNIOR

Hydraulics—C.E. 142 .. 5	Hydr. Engr.—C.E. 143.. 3	Hydr. Mach.—C.E. 145. 3
Higher Surv.—C.E. 113 3	Highways—C.E. 122 ... 3	Field Engr.—C.E. 114.. 4
Structures—C.E. 134.... 3	English 100.....	Water Sup.—C.E. 153... 3
Struc. Mat'ls.—C.E. 107 5	Dir. Cur.—E.E. 101.... 4	Alt. Cur.—E.E. 121.... 4
	D.C. Lab.—E.E. 102.... 2	A.C. Lab.—E.E. 122... 2
	<u>16</u>	<u>16</u>

## SENIOR

Sewerage—C.E. 154 .... 3	Struct. Des.—C.E. 161.. 3	Engr. Relat.—C.E. 169. 5
Bus. Law—B.A. 54 .... 3	C.E. 155 or C.E. 135.. 3	C.E. 158 or C.E. 115.. 3
C.E. 139 .....	Thesis or Elective..... 5	Thesis or Elective .... 3
Elective .....	Geol. 105 .....	Electives .....
		Pol. Sci. 101.....
	<u>16</u>	<u>16</u>

Electives must in all cases be approved by the head of the department.

## IN ELECTRICAL ENGINEERING

### Leading to the degree of Bachelor of Science in Electrical Engineering

## FRESHMAN

The same for all curricula. See page 143.

## SOPHOMORE

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Dif. Calc.—Math. 61... 3		Int. Calc.—Math. 62... 3		Int. Calc.—Math. 63... 3	
Mechanism—M.E. 81 ... 3		El. Steam—M.E. 82... 3		Steam Lab.—M.E. 83... 3	
Mech. Des.—M.E. 91... 2		Mach. Des.—M.E. 92... 2		Mach. Des.—M.E. 93... 2	
Shop 53 .....	1	Shop 54 .....	1	Shop 55 .....	1
Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	
	<u>15½</u>		<u>15½</u>		<u>15½</u>

## JUNIOR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
D.C.—E.E. 109 .....	4	D.C.—E.E. 111 .....	4	A.C.—E.E. 161 .....	6
D.C. Lab.—E.E. 110... ..	2	D.C. Lab.—E.E. 112... ..	4	A.C. Lab.—E.E. 162 ...	4
Mechanics—C.E. 181 ...	3	Mechanics—C.E. 182 ...	3	Mechanics—C.E. 183 ...	3
English 100 .....	3	Hydraulics—C.E. 142 ...	6	Materials—M.E. 167 ...	3
Electives .....	4				
	16		16		16

## SENIOR

A.C.—E.E. 163 .....	6	Trans.—E.E. 195, 196		Trans.—E.E. 198 or	
A.C.—E.E. 164 .....	4	or Thesis 186 .....	4	Thesis 188 .....	2
Physics 114 .....	3	Mach. Des.—E.E. 152... ..	3	Pol. Sci. 101 .....	2
Electives .....	3	Electives .....	3	Electives .....	12
	16		15		16

Electives must in all cases be approved by the head of the department.

## IN MECHANICAL ENGINEERING

Leading to the degree of Bachelor of Science in  
Mechanical Engineering

## FRESHMAN

The same for all curricula. See page 143.

## SOPHOMORE

Cal.—Math. 61 .....	3	Cal.—Math. 62 .....	3	Cal.—Math. 63 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Mechanism—M.E. 81 ...	3	El. Steam—M.E. 82... ..	3	Steam Lab.—M.E. 83... ..	3
Mach. Des.—M.E. 91... ..	2	Mach. Des.—M.E. 92... ..	2	Mach. Des.—M.E. 98... ..	2
Shop 53 .....	1	Shop 54 .....	1	Shop 55 .....	1
Mil. Sci. or Phys. Ed... ..	1%	Mil. Sci. or Phys. Ed... ..	1%	Mil. Sci. or Phys. Ed... ..	1%
	15%		15%		15%

## JUNIOR

Dir. Cur.—E.E. 101... ..	4	Alt. Cur.—E.E. 121... ..	4	Hydraulics—C.E. 142 ..	5
Dir. Cur. Lab.—E.E. 102... ..	2	Alt. Cur. Lab.—E.E. 122... ..	2	English 100 .....	3
Exp. Eng.—M.E. 151... ..	3	Exp. Engr.—M.E. 152... ..	3	Exp. Engr.—M.E. 153... ..	3
Eng. & Boll.—M.E. 123... ..	3	Eng. & Boll.—M.E. 124... ..	3	Mechanics—C.E. 183 ...	3
Mechanics—C.E. 181 ...	3	Mechanics—C.E. 182 ...	3	Shop 107 .....	1
Shop 105 .....	1	Shop 106 .....	1		
	16		16		15

## SENIOR

Bus. Law—B.A. 54... ..	3	Gas. Eng.—M.E. 198... ..	3	Power Plants—M.E. 184... ..	3
Thermo. & Ref.—M.E. 183 .....	5	Heat & Vent.—M.E. 182... ..	3	Steam Turb.—M.E. 170... ..	3
Mach. Des.—M.E. 101... ..	2	Mach. Des.—M.E. 102... ..	2	Mach. Des.—M.E. 103 ..	
Pol. Sci. 101 .....	2	Eng. Mat.—M.E. 167... ..	3	or 199 .....	3
Electives .....	4	Electives .....	5	Thesis 195 .....	2-5
	16		16	Electives .....	5-2

Electives must in all cases be approved by the head of the department.

## IN NAVAL ARCHITECTURE AND MARINE ENGINEERING

Leading to the degree of Bachelor of Science in Naval Architecture  
and Marine Engineering\*

## FRESHMAN

The same for all curricula. See page 143.

## SOPHOMORE

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Cal.—Math. 61 .....	3	Cal.—Math. 62 .....	3	Cal.—Math. 63 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Mechanism—M.E. 81 ...	3	El. Steam—M.E. 82... ..	3	Steam Lab.—M.E. 83... ..	3
Mach. Des.—M.E. 91... ..	2	Mach. Des.—M.E. 92... ..	2	Mach. Des.—M.E. 98... ..	2
Shop 53 .....	1	Shop 54 .....	1	Shop 55 .....	1
Mil. Sci. or Phys. Ed... ..	1%	Mil. Sci. or Phys. Ed... ..	1%	Mil. Sci. or Phys. Ed... ..	1%
	15%		15%		15%

\*Will be given if a sufficient number of students elect the course.

## College of Engineering

## JUNIOR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Dir. Cur.—E.E. 101....	4	Alt. Cur.—E.E. 121....	4	Hydraulics—C.E. 142 ..	5
Dir. Cur. Lab.—E.E. 102	2	Alt. Cur. Lab.—E.E. 122	2	Exp. Eng.—M.E. 158... 3	
Exp. Eng.—M.E. 151....	3	Exp. Engr.—M.E. 152... 3		Nav. Arch.—M.E. 187... 3	
Nav. Arch.—M.E. 185... 3		Nav. Arch.—M.E. 186... 3		Mechanics—C.E. 183 ... 3	
Mechanics—C.E. 131 ... 3		Mechanics—C.E. 132... 3		Shop 107 .....	1
Shop 105 .....	1	Shop 108 .....	1		
	16		16		15

## SENIOR

Bus. Law—B.A. 54....	3	Gas. Eng.—M.E. 108... 3		Mar. Eng.—M.E. 190 .. 3	
Thermo. & Ref.—M.E. 183	5	Heat. & Vent.—M.E. 182. 3		Steam Turb.—M.E. 179. 3	
Ship Design—M.E. 188... 2		Ship Des.—M.E. 189... 2		Mech. Des.—M.E. 108... 3	
English 100 .....	3	Eng. Mat.—M.E. 167... 3		Thesis .....	4
Electives .....	3	Pol. Sci. 101..... 2		Electives .....	3
	16	Electives .....	3		16

Electives must in all cases be approved by the head of the department.

## IN COMMERCIAL ENGINEERING

## Leading to the degree of Bachelor of Science

The student must register in the chemical, civil, electrical or mechanical department of the College of Engineering.

Mathematics 51, 52, 53, 61, 62, 63, 13.....	28
Physics 97, 98, 99.....	15
Chemistry 1, 2, 23, or 21, 22, 23.....	15
English 100 (Certificate in English Composition).....	3
Military Science or Physical Education.....	10
General Engineering 1, 2, 11, 12, 18, 21.....	18
Electrical Engineering 101, 102, and 121, 122, or 161, 162.....	12
Engineering Shops 115.....	3
Mechanical Engineering 81, 82, 83, 91, 92, 93.....	15
Business Administration 1 or 3, 62, 63, 54, 55.....	19
Technical Electives (department in which the student is registered) ..	26
General Electives .....	25
Civil Engineering 131, 132.....	6
Political Science 101.....	2
Total.....	195

Electives must in all cases be approved by the dean of the College of Engineering.

## IN AERONAUTICAL ENGINEERING

Students desiring to major in aeronautical engineering should include the following courses in the technical and general electives of the curriculum for the bachelor of science degree in the College of Engineering. These courses may also be taken as electives in the curricula for the bachelor of science degree in chemical, civil, electrical and mechanical engineering.

- 101. Aerodynamics.
- 111. Aerial Propellers.
- 121. Airplane Design.
- 141. Airships.
- 161. Aerial Transportation.

Electives must in all cases be approved by the dean of the College of Engineering.

## COURSES OF STUDY

For description of courses see Departments of Instruction section.

# ENGINEERING EXPERIMENT STATION

## THE STAFF

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale).....	Assistant Dean of Faculties
Carl Edward Magnusson, Ph.D. (Wisconsin), M.S., E.E. (Minnesota).....	Director
Hugo Winkenwerder, M.F. (Yale).....	Forest Products
Milnor Roberts, A.B. (Stanford).....	Mining and Metallurgy
Frederick Kurt Kirsten, B.S., E.E. (Washington).....	Aeronautical Engineering
Henry Kretzer Benson, Ph.D. (Columbia)...	Chemical Engineering and Industrial Chemistry
Charles William Harris, B.S. (Washington), C.E. (Cornell).....	Civil Engineering
Edgar Allan Loew, B.S., E.E. (Wisconsin).....	Electrical Engineering
George Samuel Wilson, B.S. (Nebraska).....	Mechanical Engineering
Frederick Arthur Osborn, Ph.D. (Michigan).....	Physics Standards and Tests

For description of the work of the Experiment Station, see page 37.

# COLLEGE OF FINE ARTS

## THE FACULTY

1927-1928

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale).....	Assistant Dean of Faculties
Irving Mackey Glen, A.M. (Oregon).....	Professor of Music; Dean of the College of Fine Arts
Harlan Thomas, B.S. (Colorado Agricultural College).....	Professor of Architecture
Moritz Rosen, Graduate (Warsaw Conservatory).....	Associate Professor of Music
Albert Franz Venino, (New York College, Stuttgart Conservatory, Leschetzky)...	Associate Professor of Music
Carl Paige Wood, A.M. (Harvard).....	Associate Professor of Music
*Walter Isaacs, B.S. (F.A.) (James Millikin).....	Associate Professor of Fine Arts
Charles Culbertson May, B.S. (C.E.), (Washington).....	Associate Professor of Architecture and Civil Engineering
Frances Dickey Newenham, A.M. (Columbia).....	Associate Professor of Music
Louise Van Ogle (Leipzig; Godowsky; Bauer; Lhevinne).....	Assistant Professor of Music
Glenn Hughes, A.M. (Washington).....	Assistant Professor of English and Dramatic Art
Arthur Herrman, A.B. (Arch.), (Carnegie Institute of Technology).....	Assistant Professor of Architecture
Lancelot Gowen, A.M. (Arch.), (California).....	Assistant Professor of Architecture
Dudley Pratt, A.B. (Yale).....	Assistant Professor of Fine Arts
Charles Wilson Lawrence, B.M. (Oberlin).....	Assistant Professor of Music
Albert Lovejoy, B.L.I. (Emerson College of Oratory).....	Acting Assistant Professor of Dramatic Art
Raymond Hill, (Graduate, Rhode Island School of Design).....	Assistant Professor of Fine Arts
George F. McKay, B.M. (Rochester).....	Assistant Professor of Music
Eugenia Worman (Pratt Institute).....	Associate in Fine Arts
Ambrose Patterson.....	Associate in Fine Arts
Alice Bogardus, B.L. (Mills).....	Associate in Music
Luella Venino (Leschetzky).....	Associate in Music
Clara Belle Lynch.....	Associate in Music
Burton Wakeley James, (Cornell), (Emerson College of Oratory).....	Associate in Dramatic Art
Edna Mabon, Graduate (Conservatory of Music, Carleton College).....	Associate in Music
Margaret Crawford, A. M. (Columbia).....	Associate in Dramatic Art
Florence Wood, B.F.A. (Washington).....	Associate in Design
Eugenia Fuller.....	Associate in Architecture
Irene M. Neilson, B.Mus. (Washington).....	Instructor in Music
Albert Porter Adams.....	Instructor in Music
George C. Kirchner (Leipzig).....	Instructor in Music
Helen Rhodes, (Columbia).....	Instructor in Design
Hope Foote, A.M. (Columbia).....	Instructor in Interior Decoration
Emily J. Kramer, M.A. (Columbia).....	Instructor in Design
Helen Marian Buck (California).....	Instructor in Design
John Theodore Jacobsen, B.F.A. (Washington), M.A. (Pennsylvania).....	Instructor in Architecture
Elizabeth Schumacher, B.M. (Washington).....	Instructor in Music
Ruth Frances Allen, B.M. (Washington).....	Instructor in Music
Louise Benton Oliver, B.Mus. (Washington).....	Assistant in Music
Iris Fern Canfield, B.Mus. (Washington).....	Assistant in Music
Ruth Bamford, B.M. (Washington).....	Assistant in Music
Nina Burns, B.M. (Washington).....	Assistant in Music
Everett Owen Eastwood, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology).....	Professor of Mechanical Engineering
David Connolly Hall, M.D. (Rush Medical College).....	University Health Officer and Professor of Hygiene
Charles Church More, M.S. (Lafayette), M.C.E. (Cornell).....	Professor of Structural Engineering
Herbert E. Cory, Ph.D. (Harvard).....	Professor of Liberal Arts
Alexander Crippen Roberts, Ph.D. (Washington).....	Professor of Education
Thomas K. Sidey, Ph.D. (Chicago).....	Associate Professor of Latin and Greek
Charles Goggio, Ph.D. (Wisconsin).....	Associate Professor of Romance Languages
Samuel Herbert Anderson, Ph.D. (Illinois).....	Associate Professor of Physics
Mary Emma Gross, A.M. (Columbia).....	Associate Professor of Physical Education for Women
Ernest Otto Eckelman, Ph.D. (Heidelberg).....	Assistant Professor of Germanic Languages
Harvey Bruce Denamore, A.B. (Oxford).....	Assistant Professor of Greek

\*Absent on leave, 1927-28.



## GENERAL STATEMENT

This college comprises the departments of architecture, music, painting, sculpture, design and dramatic art. The department of architecture offers a curriculum of four years leading to the degree of bachelor of arts in architecture, and two-year curriculum leading to a certificate in architectural design. In music there are curricula of four years leading to the degree of bachelor of music, with major in applied music, composition, or public school music, and to the degree of bachelor of arts in music. Curricula of four years are offered leading to the degree of bachelor of fine arts, with a major in painting and design, interior decoration, public school art, or painting. The department of dramatic art offers major courses in the study of the drama and dramatic interpretation, leading to the degrees of bachelor of arts in dramatic art and bachelor of fine arts with a major in dramatic art.

*Normal Diploma.*—In addition to their bachelor of music degree graduates in music may receive a normal diploma, entitling them to teach music in the public schools, by meeting the requirements of the department of education and such departmental requirements as the department of music may institute.

*Admission of Normal School Graduates to Advanced Standing.*—Graduates of the two-year curriculum of approved normal schools may receive junior standing provided their credits meet the requirements of the University for entrance, scholarship standard, and credit hour load.

## SCHOLARSHIPS

*Scholarships in Piano Study.*—Mr. A. F. Venino offers an annual scholarship to the student showing the greatest proficiency and promise in piano playing at the end of his junior year. The benefits of this scholarship will apply to the work of the student during his senior year.

*Beecher Kiefer Memorial Scholarship* is awarded annually to the most talented man student of violin. This award is subject to competition before a committee from the department of music. Applications should be made before June 1.

*Mu Phi Epsilon Scholarship.*—Mu Phi Epsilon, national honorary musical sorority, offers to a woman student a scholarship of one lesson a week for a school year, in either voice, piano, violoncello or organ.

Prior to the beginning of the fall term, a private tryout will be held before the committee of judges, which will be composed of three Mu Phi Epsilon members and two members of the faculty of the music department. The award will be made according to talent, personality, financial situation, promise, and general scholastic standing.

It is a requirement: (1) That the scholarship be awarded a University of Washington student of at least one year's attendance in the music department of the University.

(2) That the scholarship award, if won by (a) a senior, shall be paid back three years after the time of the award. (b) A junior, shall be paid back four years after the time of the award. (c) a sophomore, shall be paid back five years after the time of the award, in order to perpetuate and establish a permanent scholarship fund.

(3) That Mu Phi Epsilon members shall not be eligible for the competition.

The winner may select a teacher from the music faculty.

Applications must be sent to the Dean of the Fine Arts College before September 15 of each year.

The Ladies Musical Club of Seattle, for the years 1927-28 and 1928-29, will give an award of \$100 to the senior girl in the college of fine arts, department of music, whose work has been the most productive and who has been the greatest inspiration in the advancement of music during her four years at college.

#### REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

It is advisable that students intending to enter the course in architecture present credits for preparatory work in trigonometry and freehand drawing.

Students intending to enter any of the music courses leading to a degree must satisfy the head of the department that they have completed in addition to the usual high school preparation the equivalent of four years' work in piano, showing that they are familiar with the rudiments and can play well scales and chords in all positions, the smaller sonatas of Haydn, Mozart and Beethoven, and easier compositions representative of the best literature for the piano.

Forty hours of foreign language either in the high school or in the University are required for a degree in the College of Fine Arts. If a student has finished this work in the high school, he shall substitute approved electives in the University. If he presents no foreign language for admission to the University, he must supply the deficiency in addition to the hours demanded by the respective curricula, without credit.

The department of music offers examinations in sight singing, ear training, and elementary harmony for students who wish to attempt them, with a view of being excused from these required courses. These examinations will be held Friday, September 30, 1927 and applications must be filed with the Registrar in advance. Students who successfully pass the examinations will be expected to register for advanced courses in the same subjects.

## CURRICULA

The following curricula present the requirements for the several degrees, arranged in suitable sequence. However, many of the five-hour courses are offered in two or more quarters, so that other sequences may be acceptable, and even necessary, provided that prerequisites are complied with and conflicts avoided.

## FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN APPLIED MUSIC

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Music 9 Sight Singing.. 5		Music 13 Apprec..... 5		Music 6 History..... 5	
18 Applied..... 3		10 Applied..... 3		20 Applied..... 3	
L.A. 11 or Elect..... 3		English 2..... 3		English 3..... 3	
English 1..... 3		For. Lang..... 5		For. Lang..... 5	
Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½	
	17½		17½		17½

## SECOND YEAR

Music 10 Cho. or Elect.. 1		*Music 11 Cho. or Elect. 1		*Music 12 Cho. or Elect. 1	
16 Ear Training..... 5		51 Harmony..... 5		53 Harmony..... 5	
68 Applied..... 3		69 Applied..... 3		70 Applied..... 3	
Ec. Pol. Sci. or Soc.... 5		For. Lang..... 5		For. Lang..... 5	
Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½	
	15½		15½		15½

## THIRD YEAR

Music 10 Cho. or Elect. 1		*Music 11 Cho. El.... 1		*Music 12 Cho. or El... 1	
101 Harmony..... 5		109 Counterp..... 5		117 Composition..... 5	
104 Adv. Hist..... 2		105 Adv. Hist..... 2		108 Adv. Hist..... 2	
118 Applied..... 3		119 Applied..... 3		120 Applied..... 3	
112 Form..... 5		Physics 50..... 5		Physics 51..... 5	
	16		16		16

## FOURTH YEAR

Music 151 Adv. Apprec. 2		Music 152 Adv. Appr.. 2		Music 153 Adv. Appr... 2	
168 Applied..... 3		109 Applied..... 3		170 Applied..... 3	
Phil. 129 Aesth..... 5		157 Composition..... 5		199 Recital..... 2	
Elective..... 5		Elective..... 5		Elective..... 6	
	15		15	Pol. Sci. 101..... 2	
					15

## FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN PUBLIC

## SCHOOL MUSIC †

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Lib. Arts 11 or Elect.. 5		Mus. 18 Appre..... 5		Mus. 9 Sight Sing..... 5	
Mus. 18 Applied..... 3		19 Applied..... 3		20 Applied..... 3	
10 Chorus or Elect... 1		*11 Chorus or El.... 1		*12 Chorus or El.... 1	
English 1 Composition.. 3		English 2 Composition.. 3		English 3 Composition.. 3	
Elective..... 3		Elective..... 3		Mus. 6 History..... 5	
Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½	
	16½		16½		18½

\*Only those who have successfully completed the work in Music 11 will be eligible for registration in Music 12.

†The completion of this course will entitle the graduate to receive the University normal diploma.

## College of Fine Arts

## SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mus. 10 or El..... 1		*Mus. 11 Chor. or El... 1		*Mus. 12 Chor. or El... 1	
16 Ear Train..... 5		51 Harmony ..... 5		53 Harmony ..... 5	
Econ. or Pol. or Soc. Sci. 5		Physics 50 Sound ..... 5		53 School Music..... 5	
For. Lang. .... 5		For. Lang. .... 5		Physics 51 Sound..... 5	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	17%		17%		17%

## THIRD YEAR

Mus. 68 Applied ..... 3		Mus. 69 Applied ..... 3		Mus. 70 Applied ..... 3	
101 Harmony ..... 5		114 Mus. Educ. .... 2		112 Form ..... 5	
113 Mus. Educ. .... 2		Educ. 101 ..... 5		Educ. 160N ..... 2	
For. Lang. .... 5		For. Lang. .... 5		Educ. 119 ..... 3	
	15		15	Elective ..... 2	
					15

## FOURTH YEAR

Music 151 Adv. Appre.. 2		Music 152 Adv. Appre.. 2		Music 153 Adv. Apprec.. 2	
154 Mus. Superv. .... 2		155 Mus. Superv..... 2		156 Mus. Superv..... 2	
109 Counterpoint .... 5		117 Composition ..... 5		Educ. 145 ..... 5	
Phil 129 Aesthetics .... 5		Educ. 140 ..... 5		Elective ..... 5	
	14	Pol. Sci. 101 ..... 2			14
			16		

## FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN COMPOSITION

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Lib. Arts 11 or El.... 5		Music 13 Apprec..... 5		Mus. 9 Sight Singing... 5	
For. Lang. .... 5		For. Lang. .... 5		6 Mus. Hist. .... 5	
Mus. 18 Applied ..... 3		Mus. 19 Applied ..... 3		20 Applied ..... 3	
English 1 ..... 3		English 2 ..... 3		English 3 ..... 3	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	17%		17%		17%

## SECOND YEAR

Music 10 Chorus or El.. 1		*Music 11 Chorus or El. 1		*Music 12 Chorus or El. 1	
16 Ear Training ..... 5		51 Harmony ..... 5		53 Harmony ..... 5	
For. Lang. .... 5		For. Lang. .... 5		Elective ..... 3	
Econ. or Pol. or Soc.Sci. 5		Physics 50 Sound..... 5		Physics 51 Sound..... 5	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	17%		17%		15%

## THIRD YEAR

Music 10 Chorus or El. 1		*Music 11 Chorus or El. 1		*Music 12 Chorus or El. 1	
68 Applied ..... 3		69 Applied ..... 3		70 Applied ..... 3	
104 Adv. Hist. .... 2		105 Adv. Hist. .... 2		106 Adv. Hist. .... 2	
101 Harmony ..... 5		109 Counterpoint .... 5		117 Composition ..... 5	
112 Form ..... 5		Elective ..... 4		Elective ..... 4	
	16		15		15

## FOURTH YEAR

Music 151 Adv. Apprec. 2		Music 152 Adv. Apprec. 2		Music 153 Adv. Apprec. 2	
163 Polyphonic Forms 5		157 Composition ..... 5		197 Adv. Comp..... 5	
Philos. 129 Aesth..... 5		173 Orchestration .... 5		Elective ..... 5	
Elective ..... 3		Elective ..... 3		Pol. Sci. 101..... 2	
	15		15		14

\*Only those who have successfully completed the work in Music 11 will be eligible for registration in Music 12.

## FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
**Music elective .....	5	**Music elective .....	5	Lib. Arts 11 or Elec... 5	5
English 1 .....	3	English 2 .....	3	English 3 .....	3
§Science .....	5	§Science .....	5	For. Lang. ....	5
Elective .....	2	Elective .....	2	Elective .....	2
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	16%		16%		16%

## SECOND YEAR

**Music elective .....	5	**Music elective .....	5	**Music elective .....	5
Econ. or Pol. or Soc.Sci. 5		Physics 50 .....	5	Physics 51 .....	5
For. Lang. ....	5	For. Lang. ....	5	For. Lang. ....	5
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	16%		16%		16%

## THIRD YEAR

**Music elective .....	5	**Music elective .....	5	**Music elective .....	5
‡Lib. Arts elective.....10		‡Lib. Arts elective.....10		‡Lib. Arts elective.....10	
	15		15		15

## FOURTH YEAR

**Music elective .....	5	**Music elective .....	5	**Music elective .....	5
Philosophy 129 .....	5	‡Lib. Arts elective ... 8		‡Lib. Arts elective ....10	
Free elective .....	5	Pol. Sci. 101 .....	2		
	15		15		15

CURRICULUM IN ARCHITECTURE LEADING TO THE DEGREE OF  
BACHELOR IN ARCHITECTURE

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Arch. 1 Arch. Apprec... 2		Arch. 2 Arch. Apprec... 2		Arch. 3 Arch. Apprec... 2	
4 Elem. of Design... 4		5 Elem. of Design... 4		6 Elem. of Design... 4	
7 Graphics .....	1	8 Graphics .....	1	9 Graphics .....	1
47 Elem. Build. Con. 3		48 Elem. Build. Con. 3		Foreign Language .... 5	
P.S.D. 72 Sculpture... 3		P.S.D. 6 Drawing .... 3		P.S.D. 7 Drawing .... 3	
Eng. 1 Rhet. & Comp. 3		Eng. 2 Rhet. & Comp. 3		Eng. 3 Rhet. & Comp. 3	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	17%		17%		19%

## SECOND YEAR

Arch. 51 Hist. of Arch. 2		Arch. 52 Hist. of Arch. 2		Arch. 53 Hist. of Arch. 2	
54 Design, Gr. I.... 3		55 Design, Gr. I.... 3		56 Design, Gr. I.... 3	
60 Working Drawings. 2		61 Working Drawings. 2		62 Working Drawings. 2	
Math. 54 Trigonometry.. 3		Math. 55 Algebra .... 3		Math. 56 Anal. Geom... 3	
Foreign Language .... 5		Foreign Language .... 5		Foreign Language .... 5	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	16%		16%		16%

## THIRD YEAR

Arch. 101 Hist. of Arch. 2		Arch. 102 Hist. of Arch. 2		Arch. 103 Hist. of Arch. 2	
104 Design, Gr. II... 5		105 Design, Gr. II... 5		106 Design, Gr. II... 5	
112 Freehand Draw... 2		113 Freehand Draw... 2		114 Water Color .... 2	
C.E. 180 Theory of Con. 3		117 Build. Const. ... 3		118 Build. Const. .... 3	
Phys. 1 General..... 4		Phys. 2 General ..... 5		Phys. 113 Acous. & Ill. 4	
	16		17		16

§If a student presents 1 unit of high school chemistry or physics, and 1 unit of high school botany or geology or zoology, he may substitute 10 hours of elective for this science requirement.

\*\* (1) Among the music courses indicated above the following are required: 6, 9, 13, 16, 51, 53, 101, 117.

‡Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

## FOURTH YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Arch. 151 Hist. of Arch. 2		Arch. 152 Theory of Ar. 2		Arch. 153 Ar. Materials. 2	
154 Design, Gr. III.. 7		155 Design, Gr. III.. 7		116 Spec. & Off. Pr. 2	
160 Pencil Sketch ... 1		162 Modelling ..... 1		156 Thesis & Sem... 8	
B.A. 54 Bus. Law..... 3		C.E. 106 San. & Plumb.. 2		161 Pencil Sketch... 1	
E.E. 105 Elec. Wiring.. 2		P.S.D. 161 Lift Draw... 3		163 Modelling ..... 1	
P.S.D. 160 Life Draw.. 3		Pol. Sci. 101 ..... 2		M.E. 107 Heat. & Vent.. 2	
	18		17		16

## SERVICE CURRICULUM IN ARCHITECTURAL DESIGN

This curriculum, normally of two years' duration and leading to a certificate in architectural design, is intended for specially qualified students who have had an equivalent of three years in the office of a recognized architect or architects. Students entering the course should be required to meet the entrance requirements of the University for regular or special students. The faculty of the department of architecture will have the right to examine any candidate for admission to this course, to determine his qualifications and ability to pursue this course.

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Arch. 54 Design, Gr. I.. 3		Arch. 55 Design, Gr. I. 3		Arch. 104 Design, Gr. II 6	
7 Graphics ..... 1		8 Graphics ..... 1		9 Graphics ..... 1	
51 Hist. of Arch... 2		52 Hist. of Arch... 2		53 Hist. of Arch... 2	
P.S.D. 5 Drawing .... 3		P.S.D. 6 Drawing..... 3		P.S.D. 72 Sculpture... 3	
Eng. 1 Rhet. & Comp.. 3		Eng. 2 Rhet. and Comp. 3		Eng. 3 Rhet. and Comp. 3	
B.A. 54 Bus Law..... 3		C.E. 106 San. & Plumb. 2		Arch. 114 Water Color.. 2	
Phys. Ed. or Mil. Sci.. 1%		Phys. Ed. or Mil. Sci.. 1%		Phys. Ed. or Mil. Sci.. 1%	
	16%		15%		17%

## SECOND YEAR

Arch. 105 Design, Gr. I. 5		Arch. 154 Des., Gr. III 7		Arch. 155, Des., Gr. III. 7	
101 Hist. of Arch.... 2		102 Hist. of Arch.... 2		103 Hist. of Arch.... 2	
160 Pencil Sketch.... 1		162 Modelling ..... 1		163 Modelling ..... 1	
151 Hist. of Arch... 2		152 Theory of Ar... 2		116 Spec. and Off. Pr. 2	
P.S.D. 160 Life Draw.. 3		P.S.D. 161 Life Draw.. 3		M.E. 107 Heat. & Vent. 2	
Pol. Sci. 101 Fed. and State Gov. .... 2		Phys. Ed. or Mil. Sci.. 1%		Phys. Ed. or Mil. Sci.. 1%	
Phys. Ed. or Mil. Sci.. 1%					
	16%		16%		15%

## FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN PAINTING AND DESIGN

## FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
P.S.D. 5 Drawing..... 3		P.S.D. 6 Drawing .... 3		P.S.D. 7 Drawing..... 3	
9 Art Struc. .... 3		10 Art Struc. .... 3		11 Art Struc. .... 3	
English Composition ... 3		English Composition ... 3		English Composition ... 3	
Foreign Language ..... 5		Foreign Language ..... 5		Foreign Language ..... 5	
Phys. Ed. or Mil. Sci.. 1%		Phys. Ed. or Mil. Sci.. 1%		Phys. Ed. or Mil. Sci.. 1%	
	15%		15%		15%

## SECOND YEAR

P.S.D. 53 Art Struc.... 3		P.S.D. 54 Art Struc... 3		P.S.D. 55 Art Struc.... 3	
56 Drwg. and Ptg... 3		57 Drawing and Ptg.. 3		58 Drawing and Ptg.. 3	
Foreign Language ..... 5		Phys. Ed. or Mil. Sci.. 1%		Phys. Ed. or Mil. Sci.. 1%	
Phys. Ed. or Mil. Sci.. 1%		Electives ..... 9		Electives ..... 2	
Electives ..... 4				I.b. Arts 11 or Elec.. 5	
				P.S.D. 20 ..... 2	
	16%		16%		16%

## THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 126 Hist. of Ptg. 1		P.S.D. 127 Hist. of Ptg. 1		P.S.D. 128 Hist. of Ptg. 1	
107 Portrait .....	3	108 Portrait .....	3	109 Portrait .....	3
108 Pottery or		104 Pottery, or		Arch. 3 Arch. Apprec. . .	2
157 Metalwork .....	3	158 Jewelry .....	3	Laboratory Sci. ....	5
Pol. Sci., Ec. or Soc. . .	3	Laboratory Sci. ....	5	Electives .....	4
Electives .....	3	Electives .....	3		
	<u>15</u>		<u>15</u>		<u>15</u>

## FOURTH YEAR

P.S.D. 160 Life .....	3	P.S.D. 161 Life .....	3	P.S.D. 162 Life .....	3
116 Illustration, or		151 Art Struc., or		152 Art Struc., or	
166 Art Struc. ....	3	167 Art Struc. ....	3	168 Art Struc. ....	3
Electives .....	10	Electives .....	8	Electives .....	10
	<u>16</u>	Pol. Sci. 101. ....	2		<u>16</u>
			<u>16</u>		

FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR  
IN PUBLIC SCHOOL ART

All students intending to teach are expected to take all the courses given in this curricula. All substitutions must be arranged for through the head of the department

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing .....	3	P.S.D. 6 Drawing .....	3	P.S.D. 7 Drawing .....	3
9 Art Struc. ....	3	10 Art Struc. ....	3	11 Art Struc. ....	3
English Composition ....	3	English Composition ...	3	English Composition ...	3
Foreign Language ....	5	Foreign Language ....	5	Foreign Language ....	5
Phys. Ed. or Mil. Sci. . .	1½	Phys. Ed. or Mil. Sci. . .	1½	Phys. Ed. or Mil. Sci. . .	1½
	<u>15½</u>		<u>15½</u>		<u>15½</u>

## SECOND YEAR

P.S.D. 53 Art Struc. ....	3	P.S.D. 54 Art Struc. ....	3	P.S.D. 55 Art Struc. ....	3
56 Drawing and Ptg. . .	3	57 Drawing and Ptg. . .	3	58 Drawing and Ptg. . .	3
Foreign Language ....	5	Pol. Sci., Ec., or Soc. . .	5	Phys. Ed. or Mil. Sci. . .	1½
Phys. Ed. or Mil. Sci. . .	1½	Phys. Ed. or Mil. Sci. . .	1½	Electives .....	4
Electives .....	3	Electives .....	3	Lib. Arts. 11 or Elect. .	5
	<u>15½</u>		<u>15½</u>		<u>16½</u>

## THIRD YEAR

P.S.D. 107 Portrait ....	3	P.S.D. 108 Portrait ....	3	P.S.D. 109 Portrait ...	3
or 160 Life .....	3	or 161 Life .....	3	or 162 Life .....	3
126 Hist. of Ptg. ....	1	127 Hist. of Ptg. ....	1	128 Hist. of Ptg. ....	1
103 Pottery, or		104 Pottery, or		Educ. 119 .....	3
157 Metalwork .....	3	158 Jewelry .....	3	Laboratory Sci. ....	5
Educ. 101 .....	5	Laboratory Sci. ....	5	P.S.D. 20 .....	2
Electives .....	4	Electives .....	4	Electives .....	2
	<u>16</u>		<u>16</u>		<u>16</u>

## FOURTH YEAR

P.S.D. 116 Illustration. .	3	P.S.D. 105 Art Struc. . .	3	P.S.D. 106 .....	3
101 Pub. Sch. Art. . .	2	151 Art Struc. ....	3	152 Art Struc. ....	3
Philosophy 129 .....	5	102 Pub. Sch. Art. . .	2	Educ. 145 .....	5
Electives .....	4	Educ. 140 .....	5	Pol. Sci. 101. ....	2
Educ. 160P .....	2	Electives .....	3	Electives .....	3
	<u>16</u>		<u>16</u>		<u>16</u>

**FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR  
IN INTERIOR DECORATION**

**FIRST YEAR**

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing..... 3		P.S.D. 6 Drawing..... 3		P.S.D. 7 Drawing..... 3	
9 Art Struc..... 3		10 Art Struc..... 3		11 Art Struc..... 3	
English Composition .... 3		English Composition .... 3		English Composition .... 3	
Foreign Language ..... 5		Foreign Language ..... 5		Foreign Language ..... 5	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	15%		15%		15%

**SECOND YEAR**

Arch. 1 Appreciation... 2		Arch. 2 Arch. Apprec.. 2		Arch. 3 Arch. Apprec... 2	
4 Elem. of Des..... 4		5 Elem. of Arch.... 4		6 Elem. of Arch.... 4	
7 Graphics ..... 1		8 Graphics ..... 1		9 Graphics ..... 1	
P.S.D. 80 Furn. Des... 3		P.S.D. 81 Furn. Des... 2		P.S.D. 82 Furn. Des... 3	
Foreign Language ..... 3		Foreign Language ..... 3		Electives ..... 3	
Electives ..... 3		Electives ..... 4		Phys. Ed. or Mil. Sci... 1%	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%			
	17%		17%		17%

**THIRD YEAR**

P.S.D. 110 Int. Des... 3		P.S.D. 111 Int. Dec... 3		P.S.D. 112 Int. Dec... 3	
Arch. 101 History..... 2		Arch. 102 History..... 2		Arch. 103 History ... 2	
Pol. Sci., Soc. or Ec.. 5		Lab. Science ..... 5		Lab. Science ..... 5	
Lib. Arts 11 or electives 5		Electives ..... 5		H.E. 25 Textiles..... 5	
	15		15		15

**FOURTH YEAR**

P.S.D. 172 Int. Dec... 5		P.S.D. 173 Int. Dec... 5		P.S.D. 20 Ap. of Sculp. 2	
126 Hist. of Ptg.... 1		127 Hist. of Ptg.... 1		174 Int. Dec..... 5	
H.E. 143 House Furn... 3		Electives .....10		128 Hist. of Ptg.... 1	
Electives ..... 7				Electives ..... 6	
	16		16	Pol. Sci. 101..... 2	
					16

**MAJOR IN PAINTING AND SCULPTURE**

**FIRST YEAR**

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing..... 3		P.S.D. 6 Drawing..... 3		P.S.D. 7 Drawing..... 3	
9 Art Struc..... 3		10 Art Struc..... 3		11 Art Structure..... 3	
English Composition .... 3		English Composition .... 3		English Composition .... 3	
Foreign Language ..... 5		Foreign Language ..... 5		Foreign Language ..... 5	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%	
	15%		15%		15%

**SECOND YEAR**

P.S.D. 56 Painting .... 3		P.S.D. 57 Painting..... 3		P.S.D. 58 Painting.... 3	
65 Draw. & Ptg.... 3		66 Draw. & Ptg.... 3		67 Draw. & Ptg.... 3	
or 72 Sculpture..... 3		or 73 Sculpture..... 3		or 74 Sculpture..... 3	
Foreign Language ..... 5		Electives .....10		Lib. Arts 11 or elective. 5	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%		Electives ..... 5	
Electives ..... 5				Phys. Ed. or Mil. Sci... 1%	
	17%		17%		17%

**THIRD YEAR**

P.S.D. 116 Illustration. 3		P.S.D. 105 Art Struc.. 3		Arch. 3 Arch. Apprec.. 2	
107 Portrait ..... 3		108 Portrait ..... 3		P.S.D. 106 Art Struc.. 3	
or 122 Sculpture..... 3		or 123 Sculpture..... 3		109 Portrait ..... 3	
126 Hist. of Ptg.... 1		127 Hist. of Ptg.... 1		or 124 Sculpture..... 3	
Pol. Sci., Ec., or Soc... 5		Laboratory Science .... 5		128 Hist. of Ptg.... 1	
Electives ..... 6		Electives ..... 3		Laboratory Science .... 5	
	15		15	Electives ..... 1	
					15



## FOURTH YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 160 Life.....	3	P.S.D. 161 Life.....	3	P.D.S. 162 Life .....	3
163 Comp. ....	3	164 Comp. ....	3	165 Comp. ....	3
Electives .....	10	Electives .....	10	Electives .....	8
				Pol. Sci. 101.....	2
	16		16		16

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF ARTS  
IN DRAMATIC ART

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Dramatic Art 9.....	2	Dramatic Art 107.....	5	English 3 Composition ..	3
English 1 Composition ..	3	English 2 Composition ..	3	Foreign Language .....	5
Dramatic Art 5.....	5	Chem., Bot. or Zool....	5	Electives .....	7
§Chem., Bot. or Zool....	5	Phys. Ed. or Mil. Sci....	1½	Phys. Ed. or Mil. Sci....	1½
Phys. Ed. or Mil. Sci....	1½	Dramatic Art 10.....	2		
	16½		16½		16½

## SECOND YEAR

Dramatic Art 61.....	5	Dramatic Art 62 .....	5	Dramatic Art 63.....	5
Foreign Language .....	5	Psychology 1 .....	5	Pol. Sci., Soc. or Econ..	5
Lib. Arts 11 or electives	5	Foreign Language .....	5	Foreign Language .....	5
Phys. Ed. or Mil. Sci....	1½	Phys. Ed. or Mil. Sci....	1½	Phys. Ed. or Mil. Sci....	1½
	16½		16½		16½

## THIRD YEAR

Electives .....	6	Electives .....	6	Electives .....	6
Dramatic Art 104.....	4	Dramatic Art 105.....	4	Dramatic Art 106.....	4
Dramatic Art 127.....	5	‡Lib. Art Electives.....	5	‡Lib. Art Electives.....	5
	15		15		15

## FOURTH YEAR

Dramatic Art 101 Play		Dramatic Art 102 Play		Dramatic Art 103 Play	
Acting .....	3	Acting .....	3	Acting .....	3
151 Rep. Plays.....	3	152 Rep. Plays.....	3	153 Rep. Plays.....	3
‡Lib. Arts Electives....	7	‡Lib. Arts Electives....	7	Education 160L .....	2
Electives .....	2	Electives .....	2	‡Lib. Arts Electives....	3
	15		15	Pol. Sci. 101.....	2
				Electives .....	2
					15

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF FINE ARTS  
WITH A MAJOR IN DRAMATIC ART

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Dramatic Art 9.....	2	Dramatic Art 107.....	5	English 3 Composition ..	3
English 1 Composition ..	3	English 2 Composition ..	3	Foreign Language .....	5
Dramatic Art 5.....	5	Chem., Bot. or Zool....	5	Electives .....	2
Chem., Bot. or Zool....	5	Phys. Ed. or Mil. Sci....	1½	Phys. Ed. or Mil. Sci....	1½
Phys. Ed. or Mil. Sci....	1½	Dramatic Art 10.....	2	Dramatic Art 108.....	5
	16½		16½		16½

## SECOND YEAR

Dramatic Art 61.....	5	Dramatic Art 62 .....	5	Dramatic Art 63.....	5
Foreign Language .....	5	Psychology 1 .....	5	Pol. Sci., Soc. or Econ..	5
Lib. Arts 11 or electives	5	Foreign Language .....	5	Foreign Language .....	5
Phys. Ed. or Mil. Sci....	1½	Phys. Ed. or Mil. Sci....	1½	Phys. Ed. or Mil. Sci....	1½
	16½		16½		16½

‡Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

§If a student presents 1 unit of high school chemistry or physics and 1 unit of high school botany or geology or zoology, he may substitute 10 hours of elective for this science requirement

## College of Fine Arts

## THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Dramatic Art Electives..	5	Drum. Art Electives...	5	Dramatic Art Electives..	5
Dramatic Art 127.....	5	Dramatic Art 105.....	4	Dramatic Art 106.....	4
104 .....	4	Electives .....	6	Electives .....	6
Electives .....	1				
	<hr/> 15		<hr/> 15		<hr/> 15

## FOURTH YEAR

Dramatic Art 101.....	3	Dramatic Art 102.....	3	Dramatic Art 103.....	3
Dramatic Art 151.....	3	Dramatic Art 152.....	3	Dramatic Art 153.....	3
Phil. 129 (Aesthetics)..	5	Electives .....	9	Education 160L .....	2
Electives .....	4			Electives .....	5
	<hr/> 15		<hr/> 15	Pol. Sci. 101.....	2
					<hr/> 15

## COURSES OF STUDY

For description of courses see Departments of Instruction section.

## COLLEGE OF FISHERIES

### THE FACULTY, 1927-28

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale).....	Assistant Dean of Faculties
John N. Cobb.....	Professor of Fisheries; Dean of the College of Fisheries
Clarence T. Parks, M.S. (Washington).....	Assistant Professor of Fisheries
Donald R. Crawford, M.S. (Washington).....	Assistant Professor of Fish Culture
Norman D. Jarvis, M.S. (Washington).....	Instructor in Fisheries
<hr/>	
Trevor Kincaid, A.M. (Washington).....	Professor of Zoology
Frederick Morgan Padelford, Ph.D. (Yale).....	Professor of English and Dean of the Graduate School
Frederick Arthur Osborn, Ph.D. (Michigan).....	Professor of Physics
Charles Willis Johnson, Ph.C., Ph.D. (Michigan).....	Professor of Pharmaceutical Chemistry, Dean of the College of Pharmacy, and State Chemist
Theodore Christian Frye, Ph.D. (Chicago).....	Professor of Botany
Everett Owen Eastwood, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology).....	Professor of Mechanical Engineering
David Connolly Hall, M.D. (Rush Medical College).....	University Health Officer; Professor of Hygiene
Henry Kretzer Benson, Ph.D. (Columbia).....	Professor of Chemical Engineering
John Weinzirl, Ph.D. (Wisconsin), Dr.P.H. (Harvard).....	Professor of Bacteriology
Leslie James Ayer, J.D. (Chicago).....	Professor of Law
William Maurice Dehn, Ph.D. (Illinois).....	Professor of Organic Chemistry
Henry Alfred Burd, Ph.D. (Illinois).....	Associate Professor of Business Administration
William Edward Cox, A.M. (Texas).....	Professor of Business Administration and Dean of the College of Business Administration
George McPhail Smith, Ph.D. (Freiburg).....	Professor of Inorganic Chemistry
George Samuel Wilson, B.S. (Nebraska).....	Professor of Mechanical Engineering
Herman Vance Tartarr, Ph.D. (Chicago).....	Professor of Chemistry
George Burton Rigg, Ph.D. (Chicago).....	Associate Professor of Botany
Macy Millmore Skinner, Ph.D. (Harvard)....	Associate Professor of Business Administration
Thomas G. Thompson, Ph.D. (Washington).....	Associate Professor of Chemistry
John Earl Guberlet, Ph.D. (Illinois).....	Associate Professor of Zoology
Elgin Roscoe Wilcox, Met.E. (Washington).....	Assistant Professor of Civil Engineering
George Irving Gavett, B.S. (C.E.) (Michigan).....	Assistant Professor of Mathematics
Eli Victor Smith, Ph.D. (Northwestern).....	Assistant Professor of Zoology
Sargent Powell, Ph.D. (Illinois).....	Assistant Professor of Chemistry
Warren Lord Beuschlein, M.S. (Ch.E.) (Washington).....	Assistant Professor of Chemical Engineering
Hans Blerd.....	Associate in Maritime Commerce

## GENERAL STATEMENT

The College of Fisheries was established in 1919. It has a two-fold purpose: First, to afford instruction in the principles and practice of fishery; second, to promote the interest of fisheries in the state of Washington and in the United States by encouraging the right use of fishery resources.

The location of the college has exceptional advantages. The University campus is situated on the shores of Lakes Washington and Union, which are connected with each other and with Puget Sound by canals. Extensive commercial fisheries for fishes, oysters, clams and crabs are conducted in Puget Sound, while fleets of vessels with headquarters at Seattle and nearby cities carry on extensive fisheries in the ocean adjacent to the Washington coast, and on the fishing banks of Alaska. Numerous canneries, smoke-houses, cold storage plants and fertilizer plants are to be found in Seattle and other places on the Sound. A number of fish hatcheries are owned and operated in the state of Washington by the federal, state and county governments. At Friday Harbor the University owns and operates an excellent marine biological station. These many advantages present unrivaled opportunities for study of fisheries, aquatic life and fish culture.

## DEGREES

The four-year curricula in the College of Fisheries lead to the degree of bachelor of science (B.S.) in fisheries.

The degree of master of science (M.S.) in fisheries will be conferred on any graduate of the four-year curricula who has completed at least one year of graduate work and presented a satisfactory thesis with the grade of A or B. A graduate of any other institution of equal rank will be given full graduate standing, but he must have a satisfactory knowledge of zoology, chemistry, bacteriology, and botany. Selection of work for this degree must be approved by the director of the college. Before being recognized as a candidate for an advanced degree, a student must appear before a committee appointed by the dean of the Graduate School, who shall determine the student's fitness for such work and confer with him upon his proposed course of study.

## REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

*Advanced Standing.*—Credit will be given for subjects pursued at other colleges of recognized rank upon presentation to the registrar of certificates that such subjects have been satisfactorily completed. Graduates in this institution and others of similar rank are admitted to graduate standing.

## LABORATORIES

For description of laboratories see page 32.

## AQUARIUM

The aquarium is equipped with a number of tanks for live fishes, and with balanced and other aquaria for study of aquarium management. Here students are taught to make accurate observations, record data, note habits, and to study reactions and the life history of fishes.

## FISH HATCHERY

The fish hatchery occupies about fourteen hundred square feet of floor space. It is furnished with hatching troughs, baskets, and other essential equipment for care of 2,000,000 salmon or trout eggs. A complete equipment consisting of batteries of open-top jars is provided for care of several million semi-buoyant eggs, such as those of the shad, whitefish and yellow perch. A tidal box is also available for handling eggs of saltwater species. Feeding tanks and aquaria are provided in which experimental work in fish culture may be carried on. A number of cement lined ponds are available in the college grounds for rearing of various species of aquatic animals.

Within easy reach of the University are state and federal fish hatcheries where a study may be made of the actual conditions under which fish culture is carried on.

An arrangement has been effected with the United States Bureau of Fisheries under the terms of which the most promising seniors in fish culture will be afforded opportunity to spend five or six months at some one of the bureau's eighteen hatcheries in Washington, Oregon, and Alaska, half of this period to be during the summer vacation. They will be given opportunity to familiarize themselves with building and repair of hatcheries, setting fish traps, stripping spawning fish, and fertilizing and care of eggs until the young are hatched out. While so engaged, students will be paid wages current for this class of work. At the expiration of this period the students will return to the University to complete their course. After passing the regular civil service examination, as many of these students as there is room for will be appointed to the position of fish culturist.

## COMMERCIAL OPERATIONS

In or near Seattle and available for study are plants for the canning of fish, crabs, shrimps and clams; the mild-curing of salmon; the pickling of salmon, herring, and sablefish; the freezing and cold storage of fish and oysters; the dehydration of fish; the smoking of fish, and the preparation of oil, fish meal and fertilizer from the waste. Two large can-making establishments, several plants manufacturing canning machinery, and a number of others supplying various machines and supplies for the industry, also are located in Seattle. Such of these industries as are not in Seattle are conveniently situated nearby, and the transportation costs to them are low.

*Shellfish Culture.*—On Puget Sound and in Hood Canal are numerous private oyster beds where cultivation has been practiced for some years. The state owns certain oyster reserves which are utilized for experimental purposes. These are all within reasonable distance of Seattle and are available for study purposes by the students of the college.

*Fishery Operations.*—Trap netting, purse and haul seining, gill netting, trolling, hand and long-line fishing, oyster gathering, clam digging, kelp harvesting, and other forms of commercial fishing are carried on either in the harbor of Seattle, or waters adjacent, during the proper seasons, and can be observed and studied on the ground.

## FIELD EXCURSIONS

Much of the instruction in fish culture and fisheries technology is given in the field, necessitating frequent excursions to nearby hatcheries, fishing camps, oyster beds, and industrial plants. The varied fishery apparatus owned by the college is used in nearby waters. The expense of such excursions will be comparatively small.

## SUMMER WORK

Students of fisheries and food preservation are advised to spend their summer vacations in some line of practical work connected with the fishery and food preservation industries. As the college is convenient to the more important fish, fruit and vegetable canneries and dehydrating plants, ample opportunity is afforded for summer employment. Students not only acquire valuable experience in this way, but earn a considerable portion of their university expenses.

## FISHERY CLUB

The Fishery Club is an organization open to all students of the College of Fisheries. It aims: (1) to promote acquaintance and good fellowship among students and instructors; (2) to keep in touch with everyday problems in fisheries and with men who are doing things worth while in this industry, and (3) to interest the public in the College of Fisheries and in the fishery preservation problems of the state and nation.

## OUTLINE FOR CURRICULA

*Choice of Electives.*—In the election of studies, students should follow the sequence of subjects as outlined in the curricula. Deviations from the prescribed order will not be allowed by class advisors unless such deviation is imperative. All electives must have the approval of class advisors.

Attention of the students is directed to the following courses as desirable electives, those to be selected depending on the curriculum followed: B.A. 103, Money and Banking; B.A. 105, Business Organization; B.A. 106, Economics of Markets and Advertising; B.A. 167, Employment Management; Bact. 103, Public Hygiene; Chem. 111, Quantitative Analysis; Chem. 104, Food Chemistry; Chem. 123, Industrial Chemistry; Chem. 165, Chemistry of Nutrition; M.E. 82, 198, Mechanical Engineering; modern language (Spanish or German preferred); Zool. 127, 128, Comparative Anatomy; Zool. 101, Cytology; Physiology 7, Elementary Physiology.

## I. FISH BIOLOGY

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Fisheries 1 .....	2	Fisheries 2 .....	2	Fisheries 6 .....	2
Zoology 1 .....	5	Zoology 2 .....	5	Zoology 5 .....	5
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
English 4 .....	3	English 5 .....	3	Gen. Engineering 7.....	3
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
	16%		16%		16%

## SECOND YEAR

Fisheries 53 .....	5	Fisheries 54 .....	5	Fisheries 60 .....	3
Bact. 101 .....	5	Bact. 102 .....	5	B.A. 3 .....	3
App. Electives .....	5	App. Electives .....	5	Botany 53 .....	5
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%	App. Electives .....	5
	16%		16%	Mil. Sci. or Phys. Ed..	1%
					17%

## THIRD YEAR

Fisheries 101 .....	5	Fisheries 102 .....	5	Fisheries 103 .....	5
Zoology 106—Plankton .	5	Fisheries 104 .....	5	Fisheries 105 .....	5
App. Electives .....	5	Math. 13 .....	5	App. Electives .....	5
	15		15		15

NOTE—Unless a student has presented one year of high school physics as an entrance requirement, he will be required to take Physics 1, 2 and 3 in the University, with credit.

# Curricula

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## FOURTH YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Fisheries 115 .....	3	Fisheries 151 .....	5	Fisheries 152 .....	5
Fisheries 150 .....	5	Pol. Sci. 101 .....	2	Fisheries 196 .....	2
Fisheries 154 .....	5	App. Electives .....	8	Zoology 108—Limnology .....	5
Fisheries 195 .....	2			App. Electives .....	8
	<u>15</u>		<u>15</u>		<u>15</u>

## II. FISHERIES TECHNOLOGY

### FIRST YEAR

Fisheries 1 .....	2	Fisheries 2 .....	2	Fisheries 6 .....	2
Zoology 1 .....	5	Zoology 2 .....	5	B.A. 3 .....	3
Chemistry 1 or 21 .....	5	Chemistry 2 or 22 .....	5	Chemistry 23 .....	5
English 4 .....	3	English 5 .....	3	Gen. Engineering 7 .....	3
Mil. Sci. or Phys. Ed. ...	1½	Mil. Sci. or Phys. Ed. ...	1½	App. Electives .....	2
	<u>16½</u>		<u>16½</u>	Mil. Sci. or Phys. Ed. ...	1½
					<u>16½</u>

### SECOND YEAR

Fisheries 53 .....	5	Fisheries 54 .....	5	Fisheries 60 .....	3
Bact. 101 .....	5	Bact. 102 .....	5	Chemistry 129 .....	5
App. Electives .....	5	Chemistry 128 .....	5	App. Electives .....	7
Mil. Sci. or Phys. Ed. ...	1½	Mil. Sci. or Phys. Ed. ...	1½	Mil. Sci. or Phys. Ed. ...	1½
	<u>16½</u>		<u>16½</u>		<u>16½</u>

### THIRD YEAR

Fisheries 110 .....	5	Fisheries 104 .....	5	Fisheries 105 .....	5
Fisheries 130 .....	5	Math. 13 .....	5	Fisheries 108 .....	5
Fisheries 115 .....	3	Fisheries 111 .....	5	Pol. Sci. 101 .....	2
App. Electives .....	2			App. Electives .....	3
	<u>15</u>		<u>15</u>		<u>15</u>

### FOURTH YEAR

Fisheries 150 .....	5	Fisheries 151 .....	5	Fisheries 152 .....	5
B.A. 54 .....	3	B.A. 55 .....	3	Fisheries 196 .....	2
Fisheries 195 .....	2	B.A. 65 .....	5	App. Electives .....	8
App. Electives .....	5	Fisheries 147 .....	3		
	<u>15</u>		<u>16</u>		<u>15</u>

### GRADUATE

Fisheries 201 ...Research*	Fisheries 202 ...Research*	Fisheries 203 ...Research*
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## COURSES OF STUDY

For description of courses see Departments of Instruction section.

## COLLEGE OF FORESTRY

### THE FACULTY, 1927-28

Matthew Lyle Spencer, Ph.D. (Chicago).....	<i>President</i>
David Thomson, B.A. (Toronto).....	<i>Dean of Faculties</i>
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Assistant Dean of Faculties</i>
Hugo Winkenwerder, M.F. (Yale)....	<i>Professor of Forestry; Dean of the College of Forestry</i>
Burt Persons Kirkland, A.B. (Cornell).....	<i>Professor of Forestry</i>
Elias Treat Clark, M.F. (Yale).....	<i>Professor of Forestry</i>
Bror Leonard Grondal, M.S.F. (Washington).....	<i>Associate Professor of Forestry</i>
J. L. Alexander, B.S.F. (Toronto).....	<i>Assistant Professor of Forestry</i>
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Trevor Kincaid, A.M. (Washington).....	<i>Professor of Zoology</i>
Frederick A. Osborn, Ph.D. (Michigan).....	<i>Professor of Physics</i>
David Connolly Hall, M.D. (Chicago).....	<i>University Health Officer; Professor of Hygiene</i>
Henry Kreitzer Benson, Ph.D. (Columbia).....	<i>Professor of Chemical Engineering</i>
George Samuel Wilson, B.S. (Nebraska).....	<i>Professor of Mechanical Engineering</i>
Macy M. Skinner, Ph.D. (Harvard).....	<i>Associate Professor of Business Administration</i>
Lewis Irving Nelkirk, Ph.D. (Pennsylvania).....	<i>Assistant Professor of Mathematics</i>
John William Hotson, Ph.D. (Harvard).....	<i>Assistant Professor of Botany</i>
William E. Cox, A.M. (Texas).....	<i>Professor of Economics and Business Administration; Dean of the College of Business Administration</i>
George Edward Goodspeed, B.S. (Mln.E.) (Massachusetts Institute of Technology).....	<i>Assistant Professor of Geology</i>
James Baker Hamilton, B.S. (C.E.) (Washington).....	<i>Instructor in Civil Engineering</i>

### GENERAL INFORMATION

The College of Forestry was established in 1907. Its location has exceptional advantages. The University campus comprises 582 acres, forty of which are in timber, offering splendid opportunities for field work in silviculture and forest measurements. Other excellent forests are within walking distance of the campus. The University owns large forest tracts in various parts of the state, where students may conduct extensive research work. The immense national forests within a few hours' ride of Seattle afford practical object lessons in forest management. Washington is the largest lumber producing state in the country, and Seattle is in the center of the timber industry of Washington and the Northwest. In its many sawmills and wood-working industries, the student has unrivaled opportunities for studying wood utilization.

### BUILDINGS

The main building of the College of Forestry, Alfred H. Anderson Hall, was completed in the spring of 1925 at a cost of \$250,000. It contains the lecture rooms, student laboratories, exhibition rooms, library, reading and Forest Club rooms and an assembly hall seating 250. Covering a ground area of 7,500 feet, it has three full floors and a large draughting room on the fourth floor. The appointments are unusually complete. This building was presented to the University by Mrs. Agnes H. Anderson to promote the cause of forestry in the State of Washington. The Forest Products Laboratory, which was erected by the University in 1921 at a cost of \$85,000, is a modern two-story building designed for research work in forest products. A covered arcade connects this building with Alfred H. Anderson Hall.

### FOREST CLUB

The Forest Club is comprised of all students in the College of Forestry. It aims: To promote acquaintance and good fellowship among students and instructors; to keep in touch with everyday problems in forestry and lumbering, and the leaders in these industries; to interest the public in the college and in the forestry and lumbering problems of the state. A magnifi-



cent room has been provided in the new building for the use of the Forest Club.

The club has issued the *Forest Club Annual* regularly since 1913. This publication has been devoted to articles and illustrations of the college; to scientific and popular articles about forestry and to a complete roster of students and alumni. In April, 1922, the annual was superseded by an illustrated magazine known as the *University of Washington Forest Club Quarterly*. The subscription price is \$1 a year. It is devoted largely to Western forestry and lumbering problems.

Officers of the club for the year 1926-1927 are: President, Ferdinand Schmitz, Jr.; vice-president, Myron Scott; secretary-treasurer, Albert W. Blue; editor, Bernard A. Anderson; advertising manager, Arthur L. Lahey.

#### FIELD INSTRUCTION AND SUMMER WORK

Much of the instruction in technical forestry and lumbering is given in the field, in nearby forests, logging camps, saw mills, woodworking plants, and plants that manufacture equipment. This work is intensely practical and enables the student to correlate theoretical class room instruction with its application in the field.

Students in forestry are urged to spend their summer vacations in some line of practical work connected with the forest industry. The college is situated in the heart of a great lumbering section and near extensive national forests which offer ample opportunity for summer employment. Students not only acquire valuable experience in this way, but earn a considerable portion of their university expenses. The college cooperates with the industries in placing students and graduates in the positions for which they are best fitted.

#### FOREST AND LUMBERING LABORATORIES

For description of laboratories, see page 33.

#### REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

In addition to the three units of English and the two units of mathematics required for admission to all colleges of the University, it is recommended that a student expecting to enter the College of Forestry should elect his work so as to offer the following subjects:

Advanced algebra.....1½ units      Physics.....1 unit

*Advanced Standing.*—Credit will be given for subjects pursued at other colleges of recognized rank upon presentation to the registrar of certificates that such subjects have been satisfactorily completed. Graduates of this institution and others of similar rank are admitted to graduate standing.

*Undergraduate Work.*—For the degree of bachelor of science in forestry (B.S.F.) the student must complete, in addition to required subjects outlined in the curriculum, at least 46 credits in subjects selected from forestry, lumbering, engineering, or the botanical, chemical, zoological, geological or economic sciences, the subjects to be approved by the student's class adviser. A candidate for the degree must present credits in one of the following advanced courses: Forestry 184, 187, 190 or 196. In no case

shall more than 25 elective credits in any department other than forestry be allowed for graduation. Exclusive of shop and military science, 180 credits are required for graduation. Candidates for the degree must receive grades of A, B, or C in at least three-fourth of the credits required for the degree.

*Graduate Work.*—Two advanced degrees are offered to students who have received the bachelor's degree at this University or other institutions of equal rank, and have a satisfactory knowledge of the fundamental sciences. The candidate for the degree of master of forestry (M.F.) must earn 225 credits at this University, of which at least 78 are in approved technical forestry subjects. The candidate for the degree of master of science in forestry (M.S.F.) must present a minor in one or two subjects in the College of Science. In addition to these requirements the candidate for either degree must present a thesis embodying results of independent research and pass an oral examination open to all members of the faculty. Only grades of A and B can be counted toward a graduate degree.

For more detailed information on graduate work, see Graduate School section.

#### SPECIAL OPPORTUNITIES FOR ADVANCED WORK

The physical equipment of the College of Forestry and the exceptional advantages of its location are particularly advantageous for graduate students. The advanced courses include forest geography, silviculture, management, wood technology, timber physics, wood preservation, advanced forest products the business of lumbering, and research. A graduate from a college of forestry of equal rank with the College of Forestry of this University may complete the requirements for the advanced degree in one year. Graduates from other institutions of equal rank which give no courses in technical forestry may complete the required work in two years, providing they have training in the fundamental sciences, mathematics and surveying.

#### SCHOLARSHIPS AND PRIZES

*The Charles Lathrop Pack Prize.*—Charles Lathrop Pack, president of the American Tree Association, offers an annual prize of \$50 for the best essay by a student majoring in forestry. The subject shall be chosen with reference to interesting the general public in forestry matters.

*Xi Sigma Pi Honor Roll.*—The University of Washington chapter of Xi Sigma Pi, national forestry honor fraternity, has provided a mounted silver scroll, upon which the name of the freshman member of the Forest Club attaining the highest scholastic average will be inscribed yearly.

#### ORGANIZATION OF THE CURRICULUM

The curriculum of the College of Forestry is organized to give the student a broad general training in his first two year's attendance with opportunity for specialization in the two final years. Enough elementary technical work is included in the lower division to give the student definite preparation for some practical field of work by the end of his freshman or sophomore year.

A very fair degree of specialization can be made in the four-year undergraduate course, but a year of graduate work is advised for more thorough specialization. The College of Forestry offers work for thorough specialization in (1) forest service and state work, and the management of private forest holdings; (2) logging engineering; (3) forest products; (4) milling and marketing of lumber. Upon beginning work in the upper division students must elect to follow one of these specialties.

Arrangements may also be made for specialization in forest pathology, forest entomology, recreation or any other lines into which a broad training

in forestry enters. This may be done by substituting courses in other departments for some of the required courses in forestry. All such substitutions require the sanction of the dean and the University graduation committee.

**Choice of Electives.**—In election of studies students should follow the sequence of subjects as outlined in the curriculum. Deviations from the prescribed order will not be allowed by class advisers unless such deviation is imperative.

Students should decide by the end of their sophomore year in which field they desire to specialize. The student should be especially careful to register for the electives required for his advanced specialized courses as no student will be admitted to the advanced subjects who has not had the necessary prerequisites given with the course prescriptions below.

#### LOWER DIVISION

The lower division courses aim to give students who cannot go farther than the end of the second year, preparation for forest ranger service and training as assistants to logging engineers. On approval of the dean they will be allowed to substitute certain subjects of the junior year for some of the required freshman and sophomore work.

##### FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
For. 1. Dend.*.....	5	Bot. 11. Foresters.....	5	Bot. 12. Foresters.....	5
For. 2. Gen. For.....	3	For. 8. Gen. For.....	3	Math. 56. Foresters.....	3
Math. 51. Trig.....	4	Math. 52. Coll. Alg.....	4	For. 4. Protection†.....	3
English 4. Comp.....	3	G. E. 7. Drawing.....	3	C. E. 56. For. Survcy.	5
For. 5. Woodcraft.....	2	C. E. 55. For. Survey..	2	Phys. Ed. or Mil. Sci..	1½
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½		

##### SECOND YEAR

For. 53. Construction... 3	Chem. 2. Gen Chem.... 5	For. 52. Mensuration... 5
For. 57a. Silvics†..... 3	For. 51. Mensuration... 5	For. 58. Silvical..... 5
Chem. 1. Gen. Chem.... 5	English 5. Comp..... 3	Econ. 3. General..... 3
Geol. 1a. Materials†... 3	Elective ..... 2	Elective ..... 2
Geol. 1b. Topography†.. 2	Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½
Phys. Ed. or Mil. Sci.. 1½		

##### *Suggested Electives*

For. 57b. Field Silvics. 1	Eng. Shop 53. F'dry... 1	Eng. Shop 54. Forge... 1
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#### UPPER DIVISION

Beginning with the Upper Division the student will, with the approval of his Faculty Adviser, elect to follow one of the specialties in Forestry. In registering for Upper Division courses he must include all electives required as prerequisites for the advanced specialized courses. (See prerequisite list under Description of Courses, Forestry 184, 187, 190, 196.)

##### THIRD YEAR

For. 101. Technol..... 5	For. 105. Preservation. 3	For. 158. Util..... 5
Physics 1. General..... 5	Physics 2. General..... 5	Physics 3. General..... 5
	For. 104. Tim. Tests... 5	Pol. Sci. 101..... 2

##### *Suggested Electives*

M.E. 82. Steam Engr... 3	B.A. 65. Accounting... 5	B.A. 56. Bus. Law..... 3
C.E. 22. Log. R.R..... 4	B.A. 55. Bus. Law... 3	Chem. 111. Quant. Anal. 5
B.A. 54. Bus. Law..... 3	M.E. 83. Steam Engr.	H.F. 104. Nutrition... 2
Bot. 111. Pathology... 5	Lab. .... 3	Chem. 101. Qual. Anal. 5

##### FOURTH YEAR

For. 151. For. Finance. 3	For. 126. Econ..... 3	All elective
For. 153. Gen. Lbr... 5	For. 152. For. Organ... 3	

\*Also offered in spring quarter.

†Also offered in winter quarter.

‡Students majoring in Logging Engineering or milling may substitute elective courses prerequisite to Forestry 187, or Forestry 184.

*Suggested Electives*

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
For. 185. Log. Eng.... 4		For. 186. Log. Eng.... 4		For. 184. Mfg. Prob.... 3	
For. 185. Milling..... 5		For. 188. Adv.For.Prod. 5		For. 187. Log. Eng....10	
For. 119. Admin..... 3		For. 194. Seminar..... 3		For. 189. Adv. Prod.... 5	
				For. 100-102. Invest'n.1-5	
				For. 190. Adv. Pres.... 3	
				For. 190. For. Manag... 8	

**GRADUATE**

The following subjects are primarily for graduate students. Seniors will be allowed to elect them only on recommendation of the dean and the instructor concerned. With the exception of the thesis none of the subjects, strictly speaking, is required, but the student will elect all those belonging to one specialty as determined on consultation with his faculty adviser. A sufficient number will have to be taken to fulfill the requirements for the master's degree. Nine credits only will be allowed for total thesis credit.

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
For. 202. Thesis.....3-6		For. 202. Thesis.....3-6		For. 202. Thesis.....3-6	
For. 201. For. Geog.... 3		For. 209. Seminar..... 2		For. 223. Adv. Manag... 8	
For. 208. Seminar..... 2		Elective .....10		For. 224. Adv. Milling	
For. 221. History..... 3		For. 214. Research....1-5		and Marketing ..... 5	
For. 213. Research....1-5				For. 215. Research....1-5	

**COURSES OF STUDY**

For description of courses see Departments of Instruction section.

## SCHOOL OF LAW

### THE FACULTY, 1926-1927

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale).....	Assistant Dean of Faculties
Alfred John Schweppe, A.M. (Wisconsin), LL.B. (Minnesota).....	Professor of Law; Dean of the School of Law
Charles Emanuel Martin, Ph.D. (Columbia).....	Professor of Political Science
Harvey Lantz, A.M. (De Pauw), LL.B. (Kent).....	Professor of Law
Ivan Wilbur Goodner, LL.B. (Nebraska).....	Professor of Law
Clark Prescott Blissett, A.B. (Hobart), Litt. D. (Lincoln University)....	Professor of Law
Leslie James Ayer, B.S., J.D. (Chicago).....	Professor of Law
Joseph Grattan O'Bryan, A.B. (Jesuit College).....	Professor of Law
Rudolf H. Nottelman, A.M. (Illinois), LL.B. (Yale).....	Professor of Law
Arthur Sydney Beardsley, LL.B., B.S. (Lib. Sci.), A.M. (Washington).....	Law Librarian

### ORGANIZATION AND EQUIPMENT

*General Statement.*—The School of Law was established in 1899. It is a member of the Association of American Law Schools, which was organized in 1900 to set and maintain high standards of legal education, and which comprises the leading law schools of the country, membership being dependent on maintaining the standards set by the Association. Moreover, the School of Law is ranked in Class "A" by the Council on Legal Education and Admission to the Bar of the American Bar Association.

The object of the School of Law is to provide a thorough training in the law and to prepare students for practice in any state or jurisdiction where the Anglo-American legal system prevails. Particular attention is given to the statutes, the special doctrines of law, and the rules of practice that obtain in the state of Washington. Instruction is given by use of the case system. This method of teaching law, which has been approved by experience and which is now employed in the leading law schools of the country, has the threefold merit of enabling the student to acquire a thorough and practical knowledge of legal principles, to develop the power of independent legal reasoning, and to become familiar with those processes of legal thinking which have determined the form and character of our jurisprudence, and which will govern its future development. The faculty is composed chiefly of resident professional law teachers who devote their entire time and energy to teaching. The courses in practice are taught by men experienced in practice at the Washington bar. In addition, lectures on special topics are given by distinguished lawyers and judges selected primarily from the bar of the state of Washington.

*The Law Building.*—The School of Law occupies the upper floor of Commerce Hall. The law library occupies the whole north end, and an idea of its roominess may be gained from its dimensions, which are, exclusive of stacks, forty by seventy feet. There is a large consultation room, twenty-five feet square, adjoining, four large lecture or recitation rooms, and a large room fitted and used exclusively for a trial court. Every convenience and improvement tending to add to the efficiency of the student, from an equipment standpoint, is present.

*The Libraries.*—The University law library contains 49,345 volumes, including the reports of the courts of last resort, the reported lower courts of several states and the Canadian and English courts. The latest

revisions of all the state statutes and a large collection of the session laws of the various states, including a complete set of each of the Pacific Coast states, are useful features.

The University general library contains 153,879 volumes. It is especially strong in reference works.

The Seattle public library, containing 368,612 volumes, is open to the free use of students and is within easy distance of the campus by street car.

*State and United States Courts.*—The School of Law is located within a few minutes ride of both the federal and state courts sitting in Seattle. The United States District Court is in session and trying cases almost constantly, and the United States Circuit Court of Appeals for the Ninth Circuit holds a session in Seattle each autumn. The superior court for King county with thirteen departments, the justice courts, the municipal police court, and the juvenile court are in session in Seattle throughout the school year, and enable the student abundantly to witness the trial of actual cases. The Supreme Court of the State of Washington is situated within comparatively easy reach at Olympia and affords the student casual opportunity of hearing the argument of state appeals.

#### GENERAL INFORMATION

*Quarter System.*—The quarter system prevails in the School of Law. Each quarter is approximately twelve weeks in length. Credit is given usually on the basis of one credit representing a recitation or lecture one hour per week per quarter. The total hour values of courses prevailing in the schools of the Association of American Law Schools have been generally retained—e.g., courses formerly given two hours per week per semester under the quarter system are given three hours per week per quarter.

*Fees.*—A general tuition fee of fifteen dollars (\$15) a quarter for persons who have been domiciled in the State of Washington or territory of Alaska, for at least one year prior to date of registration, and of fifty dollars (\$50) per quarter for all others, is charged in the Law School, payable at the beginning of each quarter. A law library fee of ten dollars (\$10) per quarter is also charged all law students, payable at the beginning of each quarter. A diploma fee of five dollars (\$5) is charged all students to whom diplomas are issued.

Prospective students from outside the State of Washington should bear in mind certain fundamental legal principles governing the question of resident or non-resident tuition.

(a) The legal word "domicile" and the word "residence" are not equivalent terms; domicile requires more than mere residence.

(b) No one can acquire a domicile merely by residence in the state of Washington when such residence is for the purpose of attending an institution of learning.

(c) The domicile of a minor is that of his father; in the event of the death of his father, that of his mother; in the event of the divorce of his parents, that of the parent to whom legal custody of the minor is awarded; in the event of the death of both parents, that of the last deceased parent, until changed by a duly appointed legal guardian.

Every non-resident student will be expected to file a statement of his residence status when first applying for entrance to the University. Blanks for this purpose will be supplied by the University and must be filled out and returned before registration can be completed.

For information on other general University fees and expenses applicable to all students, see General Information section, page 49.

*Admission to the Bar.*—The University of Washington School of Law is by law the standard of approved law schools for admission to the bar of this state. Students intending to practice in the State of Washington should consult the dean of the Law School on entering the school, and register in accordance with the rules of the State Board of Law Examiners.

*Professional Standard of Minimum Training.*—The following resolution was adopted by the American Bar Association, September 1, 1921. It was approved by a national conference of state and local bar associations, February 24, 1922.

"(1) The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

"(a) It shall require as a condition of admission at least two years of study in a college.

"(b) It shall require its students to pursue a course of three years' duration if they devote substantially all of their working time to their studies, and a longer course, equivalent in the number of working hours, if they devote only part of their working time to their studies.

"(c) It shall provide an adequate library available for the use of the students.

"(d) It shall have among its teachers a sufficient number giving their entire time to the school to insure actual personal acquaintance and influence with the whole student body.

"The Council on Legal Education and Admission to the Bar is directed to publish from time to time the names of those law schools which comply with the above standards and of those which do not and to make such publications available so far as possible to intending law students."

As stated, the University of Washington Law School is approved by the council.

#### ADMISSION AND GRADUATION

*Regular Students.*—Students of the College of Liberal Arts, desiring to be admitted to regular standing in the Law School, must have completed the requirements of the lower division of the College of Liberal Arts. (See Liberal Arts section, page 78). Students of the College of Science, desiring to be admitted to regular standing in the Law School, must have attained junior standing in the College of Science of this University. (See College of Science section, page 98). Students may present acceptable credits or pass examinations equivalent to these requirements. Students who are not, and cannot qualify as, Liberal Arts or Science students within the meaning of the foregoing regulations, may be admitted to the Law School upon the completion of three years' work leading to a bachelor's degree in the University of Washington or any institution ranking therewith, provided further, that such work shall meet with the approval of the dean of the Law School.

Candidates for admission to the Law School may be admitted upon presenting an official statement of graduation and degree received from an accredited institution or other credentials showing the completion of the requisite college work to the Registrar of the University of Washington, Seattle, Washington.

*Special Students.*—No person will be admitted as a special student in law, unless he is twenty-three years of age and his general education is such as to entitle him to take the state bar examination. Special students are admitted only in exceptional cases and never in excess of ten per cent of the entering registration.

A special student may become a candidate for a degree by complying with all the entrance requirements as above set forth in reference to regular students.

*Advanced Standing.*—The candidate for graduation must spend three college years in residence, either at this Law School or at some other school which is a member of the Association of American Law Schools. If in addition to satisfying the entrance requirements for regular standing in the Law School, the student has earned credits at such other law school, by regular attendance for at least one academic year of not less than eight months, he will ordinarily receive credit for such work, subject to the following restrictions: The work must equal in amount and character that required by this Law School. Not more than two years' credit will be allowed for such work. (No advanced credit for law work done elsewhere will be allowed except in accordance with the regulations of the Association of American Law Schools.) The right is reserved to refuse advanced credit in law in whole or in part, save upon examination, and credit, once given, may be withdrawn for poor work in this school. Candidates for admission with advanced standing should forward a transcript of their record in both pre-legal and law work. Candidates for a degree, with advanced standing, must spend at least one full college year in the Law School.

No credit is given for time spent in private reading or for study in a law office.

*Combined Curricula in Arts or Science and Law.*—It is possible to obtain the degrees of bachelor of arts or bachelor of science, and bachelor of laws, in six years. The requirements of this plan are fully explained hereafter under the three-year pre law curriculum. (See page 176.)

*Credit Requirements.*—A minimum total of 135 hours or credits in strictly law subjects is required for completion of the law course. A student earning an average of fifteen hours or credits in each quarter can therefore qualify for graduation in nine quarters or three college years. Except upon special permission from the dean of the law school, and payment of an additional fee of one dollar (\$1.00) per credit hour in excess of fifteen, students are limited to fifteen hours per quarter.

Students, unless they be of exceptional ability and industry, who find it necessary to devote a considerable portion of their time and energy to work not connected with their law studies are strongly advised to limit their work in the Law School to not more than twelve credit hours per quarter and thus spread the period of their study of law over four years.

A student who has failed in any course, must repeat it and obtain credit in it before graduation.

*Autumn Quarter Entrance.*—Students beginning the study of law cannot be registered for the full fifteen-hour course except when entering at the first or autumn quarter, and can enter advantageously only at that time.

*Registration.*—Students should register before the opening of the quarter, conformably to the general regulations of the university. Class-work in all subjects begins promptly on the opening day of the quarter, and those who join their classes later will necessarily be seriously handicapped in their work. No student will be admitted to classes unless he presents himself, properly registered, within one week after the commencement of the quarter.

*Scholarship Requirements.*—Not less than three-fourths of the credits required for graduation must be earned with grades of A, B, or C.



*Special Lectures.*—Attendance upon all special lectures is required.

*Practice Court Requirements.*—All students in the Law School may be required to serve as jurors or witnesses in any proceedings before the practice court.

*Thesis.*—It is the desire of the faculty to encourage original investigation and research by students. Each candidate for a degree is required to prepare and deposit with the dean of the Law School, on or before May first of his senior year, a thesis of not less than thirty folios in length, on some legal topic selected by the student and approved by the faculty. It must be printed or typewritten, and is to be kept permanently in the library of the Law School.

Each senior expecting to be graduated in June must select his thesis subject and file his selection in writing with the dean of the Law School, on or before November 15 of his senior year. Upon filing the selection of his subject, the student will be assigned to one of the members of the law faculty as thesis adviser and will be required to consult with his thesis adviser at regular intervals and report his progress. No thesis will be accepted by the dean as fulfilling the thesis requirement unless it has been first approved in writing by the thesis advisor, and unless all of the thesis regulations have been complied with.

*Degrees.*—The degree of bachelor of laws (LL.B.) will be conferred on all students who comply with the entrance and scholarship requirements for regular students stated hereinbefore, remain in residence in the Law School for three school years, successfully complete all the law work in the Law School, aggregating 135 credits, and comply with the rules and regulations of the faculty and board of regents of the University. Those who maintain a uniformly distinguished record for excellence in their courses will receive this degree *cum laude*.

#### PRE-LAW STUDY

*General Statement.*—The prospective law student should appreciate that his efficiency as a student and his success as a lawyer depend to a large extent upon his preliminary education. The law is a specialized study demanding intellectual maturity and training at least equal to that required in other advanced university courses. To secure this preparation the University requires all candidates for degrees to have at least two years of college work prior to admission to the law school. It is to be noted, as also pointed out in the American Bar Association resolution set forth on page six, that two years is the minimum and not the maximum; the completion of four years of college work before beginning the study of law or at least taking the combined six-year course in arts or science and law is strongly recommended. Some law schools already require four years of college and a bachelor's degree for entrance.

Since the law touches every human interest, a broad general education is desirable. There are no specific subjects that must be mastered as a condition precedent to studying law, in the same sense in which a prospective student of medicine must acquire a knowledge of chemistry, physics, and biology as specific tools for the study of medicine; the law requires primarily a mind trained to precision of thought, coupled with a sufficient knowledge of the history of English and American institutions and civilization to appreciate the economic and social forces behind our legal institutions. Some subjects of pre-law study are valuable on the ground of mental discipline and training, others perhaps more on informational grounds. Examples of the first group, by no means all inclusive, are mathematics, ancient and modern languages, natural and physical science; examples of the second group are English and American history, ancient and modern history, and studies of a similar nature. The object

of a pre-legal education is usually best attained by the student's following his strongest interest, since that procedure ordinarily will result in the largest mental development, but he should at the same time guard against a too narrow range of intellectual pursuits. Generally speaking, in view of the exacting requirements of a lawyer's work, his position in the community, and the best traditions of the profession, the prospective law student should select subjects promotive of precision of thought, breadth of knowledge, and general culture.

#### PRE-LAW CURRICULUM—TWO YEAR COURSE IN LIBERAL ARTS OR SCIENCE.

*Admission.*—To be admitted from the College of Liberal Arts to regular standing in the Law School, students who are candidates for the LL.B. degree only must have earned 90 credits (a normal two year's work) and have completed the requirements of the lower division prescribed for the College of Liberal Arts. See bulletin of College of Liberal Arts, p. 18.) To be admitted from the College of Science to regular standing in the Law School students who are candidates for the LL.B. degree only must have earned 90 credits (a normal two year's work) and completed the requirements prescribed for the attainment of junior standing in the College of Science. (See College of Science section, page 93).

*Transfer Students.*—Students who transfer from other institutions with advanced standing, but who have acquired less than two full years of liberal arts or science credits in their respective institutions, and who are not entitled to 90 liberal arts or science credits in accordance with the credit computation system of this University, nor have completed the requirements of the lower division of the College of Liberal Arts or of the first two years of the College of Science of this University, or their equivalent, must satisfy all of the local requirements before they will be admitted to the Law School. Students who transfer from other institutions with advanced standing, and who have acquired at least two full years of liberal arts or science credit in their respective institutions, and are entitled to 90 liberal arts or science credits in accordance with the credit computation system of this University, but who have not completed the requirements of the lower division of the College of Liberal Arts or of the first two years of the College of Science of this University, or their equivalent, may be held to earn such additional liberal arts or science credits as the dean of the Law School may impose as a condition for entrance to, or graduation from, the Law School. The object of this provision is to bring about a fair and reasonable leveling between the preliminary training offered by students from this University and that offered by students from other institutions.

*Autumn Quarter Entrance.*—The Law School curriculum contemplates entrance in the autumn quarter, and the student enters advantageously only at this time. This is of such importance that in cases where there are only a few deficiencies, they should, if possible, be removed during the intervening summer quarter, or through the Extension Service.

*Adviser.*—From the beginning of the freshman year in liberal arts or science the adviser for pre-law students is the dean of the School of Law, or such persons as he may designate.

*Required Courses.*—It is of first importance that in general the required courses, when available, should be those first registered for. By this means a student will more easily avoid conflicts which, later on, may preclude him from completing the required courses in his two- or three-year pre-law curriculum.

*English Recommendation.*—Pre-law students are urged to take additional

courses in English, especially advanced composition courses, to fit them for the correct writing and speaking of English, which are constantly demanded of the legal profession.

*Electives.*—The requirements of the lower division of Liberal Arts or of the first two years in the College of Science will not make a total of 90 credits. In choosing electives, the student is advised not to specialize in any particular subject or group, but rather to take one or two courses in each or several of the various groups. For a broad general training, the following are suggested:

Anthropology 51.	English 51, 52, 53.
Astronomy 1.	English 54, 55, 56.
Liberal Arts 1, 11.	English 64, 65, 66.
Latin 1, 2, 3, 4, 5, 6.	English 73, 74, 75.
Business Administration 1, 2.	Political Science 1.
Business Administration 15, 16.	Political Science 118.
Business Administration 65.	Political Science 119, 120.
Sociology 1.	History 105, 106, 107.
English 3, 40.	History 108, 109, 110.

*Liberal Arts\* Pre-Laws.*—Experience shows that many students, because of their selection of courses in the high school, do not meet the requirements for clear entrance in the Colleges of Liberal Arts or Science. Particularly is this true of the foreign language requirement in which two years' work is required in the high school. In the event no foreign language has been taken in the high school, 20 credits in one foreign language must be taken in the University, except that 15 credits in beginning Latin (Latin 1, 2, and 3) will satisfy this deficiency. Latin should be taken when possible. No university credit is allowed for clearing the deficiency in foreign language.

Three years' work in English is required for entrance to the University and the student must register for English 1 and 2 in the University. These courses should be registered for in the first and second quarters, or as soon thereafter as available.

Among the required courses in the lower division of the College of Liberal Arts are some which may have been taken in the high school, but in the event they have not, they must be taken in the University. If taken in the University, credit is, of course, given, the only effect being to cut down the student's number of electives. If U. S. history has not been taken in the high school the student must take History 57, 58, and 59 in the University. If U. S. History has been taken, but civics not taken, the student must take Political Science 1 in the University. In addition to the U. S. history requirement, one year of other history must have been taken in the high school or the student will be obliged to take two quarters (10 credits) in the University. History 1 and 2 are recommended. When these requirements are met, either in the high school or the University, all pre-law students are strongly urged, in addition thereto, to take History 105 and 108, and their sequences, throughout their sophomore year. These courses combined, fill the 10 o'clock period for the year, and therefore the student is advised during his first year to so register as to leave this period free. These courses are open to Pre-law sophomores.

The student must have had either physics or chemistry one year in the high school, or take two quarters (10 credits) in either one or the other of them in the University. He must also have had botany or geology or zoology, one year in the high school, or taken two quarters (10 credits) in some one of them in the University. Experience shows that many students have not had both of the science groups. As they are laboratory courses and require two quarters' work, it is advisable to register for them as soon as available, because of possible conflict with other required courses. Courses offered in the high school as general biology will not satisfy

the requirement for the second group, but where such courses consist substantially of one-half year each of botany and zoology, five hours of additional credit in one or the other will satisfy.

In the event the student has not had three years of an ancient foreign language (Greek or Latin) in high school, or its equivalent in the University, he must take two quarters (10 credits) in ancient life and literature. These courses are given under the titles of Greek and Latin, but in fact, are courses in the English language dealing with Greek and Latin life and literature. They are therefore required of all students who have had only a modern language and should also be taken by students who have had two years only of Greek or Latin and feel that they have lost touch with same. Otherwise the latter are advised to continue with their Greek or Latin and in the event they have taken Latin 1, 2, and 3, they are urged to continue with Latin 4, 5, and 6.

As to the subjects required in the first two years of the University: they are divided into four groups. Physical education or military science is required of all students. Five credits are required in philosophy. Philosophy 1, 2, 3 or 5, or any two or three of these courses may be advantageously taken. Courses in philosophy must not be registered for during the first year, and they may be postponed until the junior year, if the student contemplates a three year pre-law course. Psychology 1 is required. Two quarters or ten credits in any one or combination of two of the following subjects are required: Economics, political science or sociology. Obviously, all are important as a background for the proper study of law, and course 1 in each, at least, should be taken.

*College of Science Pre-Laws.*—The foregoing suggestions as to Liberal Arts Pre-Laws apply generally to Science Pre-Laws with the following exceptions: The student in science must have or acquire in the secondary school or university, mathematics, geology or astronomy, 1 year or 10 credits; chemistry 1 year or 10 credits; physics, 1 year or 10 credits; and botany or zoology, 1 year or 10 credits. His required subjects in the University include economics, history, language and literature, philosophy, political science, psychology, sociology, 20 credits, but only 10 credits will be counted in any one of these subjects. It will be noted, therefore, that the student has 2 additional science requirements, as compared with the Liberal Arts requirement. He must have both chemistry and physics and one year or 10 credits of mathematics, geology, or astronomy. He is not, however, required to take any classical language in addition to his two years of foreign language, and in his requirements in the University, may select 20 credits among any of the subjects just above listed, limited, however, to 10 credits in any one subject.

#### PRE-LAW CURRICULUM—THREE-YEAR COURSE IN LIBERAL ARTS OR SCIENCE

*Combined Six-Year Course in Arts or Science and Law.*—It is possible to obtain the degrees of bachelor of arts or bachelor of science and bachelor of laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the two-years pre-law course, with the additions hereafter stated. To have the benefit of this combined course, students must maintain a uniformly good record and must, in the first three years in their respective colleges, earn 144 credits, together with the 10 credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Service, if necessary. At the beginning of the fourth year, if a student has earned 144 credits, and 10 credits of required military science or physical education, he may enter the School

national balance of payments; national and international controls of foreign exchange, raw materials, exports and imports. Prerequisite, B.A. 145. Five credits; spring. Skinner.

## PUBLIC UTILITIES AND TRANSPORTATION

131. *Economics of Public Utilities.* The development of the fundamental economic theory underlying public utility industries; their economic, social and legal characteristics; monopolistic nature; problems of joint, special and differential costs; fundamentals of sound rate practice. Prerequisite, B.A. 104. Five credits; autumn. Hall.

132. *Management of Public Utilities.* Basic administrative problems of differential rate schedule determination, production, distribution, interconnection, marketing, finance, public relations. Special attention to Pacific coast conditions. Prerequisites, lower division requirements in business administration and B.A. 131. Five credits; winter. Hall.

133. *Control of Public Utilities.* Economic, legislative and administrative problems of regulation; state and federal regulation; court decisions on fair value and fair return evaluated; the public utility holding company and the problems of regulation raised thereby; municipal ownership and operation with its incidental problems. Prerequisite, B.A. 131. Five credits; spring. Hall.

143. *Railway Transportation.* An intensive treatment of the principles of railway transportation. Critical evaluation of problems of finance, operation, competition, combination and regulation. Prerequisites, lower division requirements in business administration and B.A. 104. Five credits; autumn, spring. Gould.

144. *Water Transportation.* Economic principles basic to water transportation. Problems of joint and special costs, competition, rate practices, rate agreements, shipping subsidies, inter-coastal regulations. Prerequisites, lower division requirements in business administration and B.A. 104. Five credits; winter. Gould.

149. *Marine Insurance and Carriers' Risks.* Liabilities of rail and water carriers; plans of marine insurance; marine underwriters; insurable interests; warranties. Prerequisite, B.A. 143 or 144. Five credits; autumn. Farwell.

150. *Transportation Rates.* An intensive examination of theory underlying commodity classifications and tariffs. Rate-making power of governmental bodies. Prerequisite, B.A. 143 or 144. Five credits; autumn, winter. Gould.

151. *Traffic Management.* Principles and theory of scientific industrial traffic management. Problems of routing, expediting, auditing, demurrage, reconsignment, port and terminal facilities. Prerequisites, lower division requirements in business administration and B.A. 104. Five credits; spring. Farwell.

152. *Ports and Terminals.* Special needs of rail, water, motor and air carriers as to port and terminal facilities. Prerequisites, lower division requirements in business administration and B.A. 151. Three credits; winter. Farwell.

## ECONOMIC THEORY AND GENERAL BUSINESS

100. *Economic and Industrial Development of the United States.* Survey of the important phases in the development of the American economic and industrial system. Special attention will be given to manufactures, commerce, labor, finance, and agriculture. Prerequisites, History 59, and 20 upper division credits in economics. Five credits; winter. Coon.

160. *Advanced Economic Theory*. Economic thought centering about the neo-classical theories of value and distribution and the validity of this thought under present conditions. Prerequisite, 30 upper division credits in economics and business administration. Five credits; autumn, winter, spring. Mund.

161. *Economics of Labor*. A consideration of labor theories in their relation to social, political and other economic theories reflected against a common institutional background. Prerequisites, B.A. 105, and 10 upper division credits in economics. Five credits; autumn. McMahon.

162. *European Labor Problems*. A comparative study of the problems of labor in foreign countries; historical economic backgrounds; programs of amelioration and reform. Prerequisites, B.A. 105, and 10 upper division credits in economics. Five credits; spring. McMahon.

168. *Development of Economic Thought*. A study of the contributions of the classical and neo-classical economists and their contemporary critics. Primary sources will be used and attention will be given to the industrial, social, and political background of economic thought. Prerequisite, B.A. 160. Five credits; winter. Coon.

169. *Applied Economics of Real Estate*. Types of real estate uses and their characteristics; appraisals of farm and urban land improvements; property rights; real estate finance; management of real property; leases. Prerequisites, lower division requirements in business administration and B.A. 109. Five credits; spring. Demmery.

170. *Applied Economics of Insurance*. Application of the general principles to the various forms of insurance such as life, health, accident, fire, marine, casualty, automobile, etc. Prerequisite, lower division requirements in business administration and B.A. 108. Five credits; spring. Smith.

175. *Business Fluctuations*. Survey of past business fluctuations; secular trends, seasonal variations, irregular fluctuations and business cycles; discussion of forces which tend to destroy economic equilibrium; proposals for controlling business fluctuations. Prerequisite, B.A. 103. Five credits; autumn, winter. Demmery.

177. *Business Diagnosis*. Analysis of current economic conditions in general and by industries; evaluation of business "barometers"; underlying assumptions and methods involved in forecasting business activity; appraisal of forecasting services. Prerequisites, lower division requirements in business administration and B.A. 175. Five credits; spring. Demmery.

181. *Economics of Consumption*. Historical development of human wants in relation to the economic laws of consumption; attempts to control consumption. Prerequisite, B.A. 105, and 10 upper division credits in economics. Five credits; winter. McMahon.

#### SEMINARS

190. *Research in Business Administration*. Summer quarter only.

Coon and staff.

191ABC. *Research in Accounting and Management*. Prerequisite, consent of instructor. Three credits; autumn, winter, spring. Gregory.

194C. *Research in Transportation*. Prerequisite, consent of instructor. Three credits; spring. Gould.

195ABC. *Research in International Trade*. Prerequisite, consent of instructor. Three credits; autumn, winter, spring. Skinner.

196ABC. *Research in Public Utilities*. Prerequisite, consent of instructor. Three credits; autumn, winter, spring. Hall.

# COLLEGE OF MINES

## THE FACULTY, 1927-28

Matthew Lyle Spencer, Ph.D. (Chicago).....	President
David Thomson, B.A. (Toronto).....	Dean of Faculties
Frederick Morgan Padelford, Ph.D. (Yale).....	Assistant Dean of Faculties
Milnor Roberts, A.B. (Stanford).....	Professor of Mining Engineering and Metallurgy; Dean of the College of Mines
Joseph Daniels, M.S. (Lehigh).....	Professor of Mining Engineering and Metallurgy
Hewitt Wilson, Cer.E. (Ohio State University).....	Associate Professor of Ceramics
Clarence Raymond Corey, E.M. (Montana State School of Mines), A.M. (Columbia), Assistant Professor of Mining Engineering and Metallurgy	
Harvey L. Glenn, B.S. (Iowa State College).....	Lecturer on Assaying of Bullion
Frederick Powell, E.M. (Columbia).....	Lecturer on Gold Dredging
John G. Schonling.....	Foreman Miner in charge of Mine Safety Station, U. S. Bureau of Mines
George H. Finland.....	Assistant in Mining
William S. Barquist.....	Assistant in Metallurgy
Henry N. Baumann, B.S. (Min.) (Washington).....	Assistant in Ceramics
<hr/>	
Henry Kreitzer Benson, Ph.D. (Columbia).....	Professor of Chemical Engineering
Trevor Kincaid, A.M. (Washington).....	Professor of Zoology
Frederick Arthur Osborn, Ph.D. (Michigan).....	Professor of Physics
Robert Edouard Moritz, Ph.D. (Nebraska), Ph.D. (Strassburg).....	Professor of Mathematics
Carl Edward Magnusson, Ph.D. (Wisconsin).....	Professor of Electrical Engineering and Dean of the College of Engineering
Everett Owen Eastwood, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology).....	Professor of Mechanical Engineering
David Connolly Hall, Sc.M., M.D. (Chicago).....	Professor of Hygiene
Charles Church More, M.S., C.E. (Lafayette), M.C.E. (Cornell).....	Professor of Structural Engineering
George Samuel Wilson, B.S. (Nebraska).....	Professor of Mechanical Engineering
Charles William Harris, C.E. (Cornell).....	Professor of Hydraulic Engineering
Edgar Allen Loew, B.E. (Wisconsin).....	Professor of Electrical Engineering
Allen Fuller Carpenter, Ph.D. (Chicago).....	Professor of Mathematics
Herman Vance Tartar, Ph.D. (Chicago).....	Professor of Chemistry
Loren Douglas Milliman, A.B. (Michigan).....	Associate Professor of English
Henry Louis Brakel, Ph.D. (Cornell).....	Associate Professor of Engineering Physics
George Irving Gavett, B.S. (C.E.) (Michigan).....	Associate Professor of Mathematics
George Edward Goodspeed, S.B. (Massachusetts Institute of Technology).....	Assistant Professor of Geology
Gilbert Simon Schaller, B.S. (Illinois), M.B.A. (Washington).....	Assistant Professor of Shop Engineering

## ADVISORY BOARD OF COLLEGE OF MINES

### UNIVERSITY OF WASHINGTON

Ralph F. Barker.....	Manager Tacoma Smelter of American Smelting and Refining Co. Tacoma.
Roy H. Clarke.....	Mining Engineer Peyton Building, Spokane.
John Erikson.....	Mine Operator Erikson Building, Seattle.
A. B. Fosseen.....	President and General Manager Washington Brick, Lame and Sewer Pipe Co. Spokane.
J. T. Heffernan.....	President of the Heffernan Engine Works, Mine Operator 108 Railroad Avenue South, Seattle.
Charles Hussey.....	General Manager of Estate of John A. Finch, Mine Operator Empire State Building, Spokane.
Paul S. MacMichael.....	Northern Manager and Vice-President Gladding-McBean Co. Dexter Horton Building, Seattle.
W. R. Rust.....	Founder of the Tacoma Smelter, President of Tacoma Exploration Company Rust Building, Tacoma.
Nathaniel D. Moore.....	General Manager of Pacific Coast Coal Company Seattle.

## STAFF OF NORTHWEST EXPERIMENT STATION

### UNITED STATES BUREAU OF MINES, DEPARTMENT OF COMMERCE

Byron Matthew Bird, B.S. (Met.E.) (Washington).....	Superintendent
Harry Fagan Yancey, Ph.D. (Illinois).....	Associate Chemist
Kenneth A. Johnson, B.S. (Washington).....	Junior Chemist

## SCOPE AND FACILITIES

*Degrees.*—The College of Mines offers specialized training in mining engineering, metallurgy, and ceramics. The four-year curricula lead to degrees as follows:

- I. Bachelor of science in mining engineering, B.S. (Min. E.)
- II. Bachelor of science in geology and mining, B.S. (Geol. and Min.)
- III. Bachelor of science in metallurgical engineering, B.S. (Met. E.)
- IV. Bachelor of science in coal mining engineering, B.S. (Coal Min. E.)
- V. Bachelor of science in ceramic engineering, B.S. (Cer. E.)

The degree of engineer of mines (E.M.) is given to graduates in mining engineering who have practiced their profession for at least three years and who present a satisfactory thesis. Graduates in metallurgy may receive the degree of metallurgical engineer (Met.E.) under similar conditions, and the appropriate advanced degrees are also open to graduates of other curricula.

*Mining and Metallurgical Industries Available for Study.*—Mining machinery of many kinds is in operation within easy reach of the University. Much of the heavy mining machinery used in the neighboring states and Alaska is built in Seattle, while patented machines, such as drills and concentrating tables, are kept in stock and as working exhibits by the firms that supply the North Pacific coast regions. More than 40 eastern firms dealing in mining equipment make their Seattle branches the distributing center for the Pacific Northwest, British Columbia and Alaska. Methods important to the mining engineer are illustrated in Seattle by the operations of the steam shovels, excavators which are used largely in iron and copper mining. The engineers in charge of these plants have given the mining students every opportunity to become familiar with the methods of planning and carrying on the work, and the same statement applies to the mine operators throughout the state.

Other available works of interest include coal mines and coke ovens, with the largest production west of the Rocky mountains; gold, silver, copper, lead, magnesite, and diatomite mines; large cement plants, several stone quarries and dressing works; clay mines, clay terra cotta and pottery works, gravel and sand pits with large production and modern methods; a region of varied geology with many economic minerals; the Tacoma smelter and refineries; the U.S. assay office; the Northwest Lead works; the West Seattle steel plant of the Pacific Coast Steel Co., numerous foundries, and plants engaged in electro-metallurgical work.

*Instruction for Coal Mining Men.*—Miners taking the rescue training also receive instruction in the College of Mines on the subjects of mine gases, explosions, and the origin and distribution of Pacific Coast and Alaska coals. Laboratory experiments are carried on to show the methods of analyzing coals and determining the uses to which they can be put. The methods of testing for permissible explosives at the Pittsburgh station and the safe methods of charging, tamping, and firing are explained. Coal men interested in the washing of coals are given full practice with the several types of apparatus used for this purpose.

*Laboratories.*—For description of mining, metallurgical and ceramic laboratories, see page 35.

## MINING, METALLURGICAL, AND CERAMIC RESEARCH

The purpose of this department is to encourage development in the mining, metallurgical, and ceramic industries of Washington, the Pacific Northwest and Alaska by research in the special problems presented, and to solve the problems through the efforts of fellowship holders and others studying in the department.



Graduates from suitable technical courses at institutions of recognized standing, or men who present evidence of technical training which has fitted them to undertake investigations, are eligible to enroll in mining and metallurgical research. The degree of master of science may be granted students holding suitable bachelor of science degrees who complete investigative work in compliance with the University requirements for the master's degree. Although as much latitude as possible will be allowed in the choice of subjects for research, the general topics will be those of special importance to this region.

*Research Fellowships.*—The College of Mines offers five fellowships for research in coal and non-metallic, in cooperative work with the United States Bureau of Mines. The fellowships are open to graduates of universities and technical colleges who are properly qualified to undertake research investigations. The value of each fellowship is \$720 to the holder, for the twelve months beginning July 1. Fellowship holders pay tuition and laboratory fees, but are reimbursed for the amounts so expended; they register as graduate students and become candidates for the degree of master of science in the proper subject, unless an equivalent degree has previously been earned.

Each applicant should send a copy of his collegiate record from the registrar of the college where he has graduated, or will graduate in June. He should also send a photograph and a detailed statement of his professional experience, if any, and give the names and addresses of at least three persons who are familiar with his character, training and ability. Applications should be submitted if possible by April 20 in order to allow ample time for consideration, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

Appointees to the fellowship report for duty on July 1, and are required to be on duty the entire year except that in case of reappointment for a second year, the fellowship holder is given a vacation from June 15 to July 1.

For the year 1927-1928 the following subjects have been selected for investigation: 1. Coal. (a) Beneficiation: Coal washing. Application of ore dressing principles to cleaning of coal; (b) Utilization: Briquetting of low grade coals and other problems.

2. Non-Metallic Materials. (a) Purification: Washing of kaolin and ochres; (b) Problems in drying certain non-metallics; (c) Efficiency studies in kiln-heating.

*Arthur A. Denny Fellowship.*—To encourage graduate work a fellowship of \$500 annual value is open to students in the College of Mines who are residents of the state of Washington. It is awarded for scholastic excellence and general merit, but only to students who need financial assistance. Applications must be made to the Dean of the College before March 15 preceding the academic year for which the fellowship is to be granted.

*Investigations of Problems.*—Under certain conditions, the University will permit mining, metallurgical, and ceramic companies who have special problems for solution, to detail a representative to work on such problems, or to meet the expense of engaging a man to do so. Experiments which can be carried on as readily in commercial laboratories and which do not require direction from the College's experts are not undertaken. The research is done under the direction of the department, and complete records of all the data obtained are filed with the department, which reserves the right to publish this information for the benefit of the mining, metallurgical and ceramic industries.

#### MINING SOCIETY

The Mining Society, affiliated with the American Institute of Mining

and Metallurgical Engineers, has a membership composed of all students in the college. At the monthly meetings of the society addresses are made by prominent mining engineers, and papers descriptive of their summer work are presented by the student members.

#### REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

In addition to the three units of English and the two units of mathematics required for admission to all colleges of the University all students expecting to enter the College of Mines should offer the following subjects for entrance:

Advanced algebra .....	$\frac{1}{2}$ unit
Solid geometry .....	$\frac{1}{2}$ unit
Physics .....	1 unit
Manual Training, shopwork.....	$\frac{1}{2}$ unit

If the student has not included these subjects in his high school elections, it will be necessary for him to include them among his elections in college.

#### CURRICULA OF THE COLLEGE OF MINES

##### MINING ENGINEERING (OPTION I)

###### FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 51 .....	4	Mathematics 52 .....	4	Mathematics 53 .....	4
Gen. Engineering 1.....	3	Gen. Engineering 2.....	3	Gen. Engineering 13.....	3
Gen. Engineering 11.....	3	Gen. Engineering 12.....	3	Gen. Engineering 21.....	3
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%	
	15+1%		15+1%		15+1%

###### SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 61 .....	3	Mathematics 62 .....	3	English 100 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Geology 1a .....	3	Geology 21 .....	5	Geology 120 .....	3
Geology 1b .....	2	Mining 62 .....	3	Chemistry 111 .....	5
Mining 61 .....	3	Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%	
Mil. Sci. or Phys. Ed.. 1%					
	16+1%		16+1%		16+1%

‡Mining Practice in Summer Vacation.

###### THIRD YEAR

Civil Engineering 131... 3	Civil Engineering 132... 3	Geology 122 .....	2
Geology 123 .....	Electrical Eng. 101-102. 6	Electrical Eng. 121-122. 6	
Mining 101 .....	Geology 124 .....	Metallurgy 102 .....	5
Metallurgy 101 .....	Metallurgy 153 .....	Mining 106 .....	1
Mechanical Eng. 64..... 1		Elective .....	2
	15		16

‡ Practice in mining, metallurgy, geology, or ceramics, accompanied by a report on the work performed, is required of all students during a summer vacation following the sophomore or junior year.

## FOURTH YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mining 151 .....	3	Mining 192 .....	2	Mining 107 .....	1
Mining 191 .....	2	Mining 162 .....	4	Mining 152 .....	5
Metallurgy 155 .....	3	Geology 127 .....	5	Mining 193 .....	1
Metallurgy 162 .....	2	Mining 103 .....	1	Mining 182 .....	3
Electives .....	3	Electives .....	3	Electives .....	4
Pol. Sci. 101.....	2				
	15		15		14

## GEOLOGY AND MINING (OPTION II)

## FIRST YEAR

Mathematics 51 .....	4	Mathematics 52 .....	4	Mathematics 53 .....	4
Gen. Engineering 1.....	3	Gen. Engineering 2.....	3	Gen. Engineering 18.....	3
Gen. Engineering 11.....	3	Gen. Engineering 12.....	3	Gen. Engineering 21.....	3
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
	15+1%		15+1%		15+1%

## SECOND YEAR

Mathematics 61 .....	3	Mathematics 62 .....	3	Geology 4 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Geology 1a .....	3	Geology 21 .....	5	Geology 120 .....	3
Geology 1b .....	2	Mining 52 .....	3	Chemistry 111 .....	5
Mining 51 .....	3	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
Mil. Sci. or Phys. Ed..	1%				
	16+1%		16+1%		16+1%

## THIRD YEAR

Civil Engineering 131... 3	Civil Engineering 132... 3	Geology 122 .....	2
Geology 123 .....	Geology 124 .....	Geology 125 .....	2
Mining 101 .....	Metallurgy 103 .....	Metallurgy 102 .....	5
Metallurgy 101 .....	Metallurgy 153 .....	Mining 106 .....	1
Mechanical Eng. 54... 1	Electives .....	English 100 .....	3
		Electives .....	2
	15		15

‡Mining Practice in Summer Vacation.

## FOURTH YEAR

Mining 151 .....	3	Mining 192 .....	2	Mining 107 .....	1
Mining 191 .....	2	Mining 162 .....	4	Mining 152 .....	5
Metallurgy 162 .....	2	Geology 127 .....	5	Mining 193 .....	1
Geology 126 .....	3	Mining 103 .....	1	Electives .....	7
Geology 140 .....	3	Electives .....	3		
Pol. Sci. 101.....	2				
	15		15		14

## METALLURGICAL ENGINEERING (OPTION III)

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 51 .....	4	Mathematics 52 .....	4	Mathematics 53 .....	4
Gen. Engineering 1.....	3	Gen. Engineering 2.....	3	Gen. Engineering 18.....	3
Gen. Engineering 11.....	3	Gen. Engineering 12.....	3	Gen. Engineering 21.....	3
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
	15+1%		15+1%		15+1%

## SECOND YEAR

Mathematics 61 .....	3	Mathematics 62 .....	3	English 100 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Geology 1a .....	3	Geology 21 .....	5	Geology 120 .....	3
Geology 1b .....	2	Mining 52 .....	3	Chemistry 111 .....	5
Mining 51 .....	3	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
Mil. Sci. or Phys. Ed..	1%				
	16+1%		16+1%		16+1%

‡Practice in mining, metallurgy, geology, or ceramics, accompanied by a report on the work performed, is required of all students during a summer vacation following the sophomore or junior year.

## THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Civil Engineering 181...	3	Civil Engineering 182...	3	Electrical Engr. 121-122.	6
Mining 101 .....	3	Electrical Eng. 101-102.	6	Metallurgy 102 .....	5
Metallurgy 101 .....	5	Metallurgy 103 .....	4	Mining 106 .....	1
Mechanical Eng. 54...	1	Metallurgy 153 .....	3	Electives .....	3
Electives .....	1				
Pol. Sci. 101.....	2				
	<u>15</u>		<u>16</u>		<u>15</u>

‡Mining Practice in Summer Vacation.

## FOURTH YEAR

Mining 151 .....	3	Mining 192 .....	2	Mining 107 .....	1
Mining 191 .....	2	Metallurgy 163 .....	3	Mining 152 .....	5
Metallurgy 104 .....	5	Metallurgy 165 .....	3	Mining 193 .....	1
Metallurgy 155 .....	3	Geology 127 .....	5	Metallurgy 166 .....	3
Metallurgy 162 .....	2	Mining 103 .....	1	Electives .....	5
	<u>15</u>		<u>14</u>		<u>15</u>

## COAL MINING ENGINEERING (OPTION IV)

## FIRST YEAR

Mathematics 51 .....	4	Mathematics 52 .....	4	Mathematics 53 .....	4
Gen. Engineering 1....	3	Gen. Engineering 2....	3	Gen. Engineering 13....	3
Gen. Engineering 11....	3	Gen. Engineering 12....	3	Gen. Engineering 21....	3
Chemistry 1 or 21....	5	Chemistry 2 or 22....	5	Chemistry 23 .....	5
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½
	<u>15+1½</u>		<u>15+1½</u>		<u>15+1½</u>

## SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 61 .....	3	Mathematics 62 .....	3	Geology 4 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Geology 1a .....	3	Geology 21 .....	5	Geology 120 .....	3
Geology 1b .....	2	Mining 52 .....	3	Chemistry 111 .....	5
Mining 51 .....	3	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½
Mil. Sci. or Phys. Ed..	1½				
	<u>16+1½</u>		<u>16+1½</u>		<u>16+1½</u>

## THIRD YEAR

Civil Engineering 181...	3	Civil Engineering 182...	3	Electrical Eng. 121-122.	6
Mining 101 .....	3	Electrical Eng. 101-102.	6	Metallurgy 102 .....	5
Mechanical Eng. 81...	3	Mining 122 .....	3	English 100 .....	3
Mechanical Eng. 82...	3	Metallurgy 103 .....	4	Mining 106 .....	1
Mechanical Eng. 83...	3				
	<u>15</u>		<u>16</u>		<u>15</u>

‡Mining Practice in Summer Vacation.

## FOURTH YEAR

Mining 151 .....	3	Mining 192 .....	2	Mining 107 .....	1
Mining 191 .....	2	Mining 171 .....	3	Mining 193 .....	1
Metallurgy 155 .....	3	Mining 176 .....	5	Mining 182 .....	3
Mining 170 .....	3	Mining 103 .....	2	Mining 178 .....	2
Mechanical Eng. 54...	1	Electives .....	3	Electives .....	7
Electives .....	1				
Pol. Sci. 101.....	2				
	<u>15</u>		<u>15</u>		<u>14</u>

‡Practice in mining, metallurgy, geology, or ceramics, accompanied by a report on the work performed, is required of all students during a summer vacation following the sophomore or junior year.

## CERAMIC ENGINEERING (OPTION V)

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 51 .....	4	Mathematics 52 .....	4	Mathematics 53 .....	4
Gen. Engineering 1.....	3	Gen. Engineering 2.....	3	Gen. Engineering 13.....	3
Gen. Engineering 11.....	3	Gen. Engineering 12.....	3	Gen. Engineering 21.....	3
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23 .....	5
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
	<u>15+1%</u>		<u>15+1%</u>		<u>15+1%</u>

## SECOND YEAR

Mathematics 61 .....	3	Mathematics 62 .....	3	Ceramics 90 .....	3
Physics 97 .....	5	Physics 98 .....	5	Physics 99 .....	5
Geology 1a .....	3	Geology 21 .....	5	Geology 120 .....	3
Geology 1b .....	2	Mining 52 .....	3	Chemistry 111 .....	5
Mining 51 .....	8	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%
Mil. Sci. or Phys. Ed..	1%				
	<u>16+1%</u>		<u>16+1%</u>		<u>16+1%</u>

## THIRD YEAR

Ceramics 100 .....	3	Ceramics 101 .....	3	Ceramics 102 .....	3
Ceramics 104 .....	3	Ceramics 105 .....	3	Ceramics 110 .....	2
Civil Engineering 131...	3	Civil Engineering 132...	3	English 100 .....	3
Mining 101 .....	3	Metallurgy 153 .....	3	Metallurgy 102 .....	5
Chemistry 181 .....	5	Chemistry 182 .....	5	Mining 106 .....	1
	<u>17</u>		<u>17</u>		<u>14</u>

## FOURTH YEAR

Ceramics 121 .....	5	Ceramics 122 .....	5	Ceramics 123 .....	5
Mining 191 .....	3	Mining 192 .....	3	Mining 197 .....	1
Electives .....	5	Metallurgy 103 .....	4	Mining 193 .....	2
Pol. Sci. 101.....	2	Mining 103 .....	1	Electives .....	7
	<u>15</u>	Electives .....	2		<u>15</u>

## COURSES OF STUDY

For description of courses see Departments of Instruction section.

## COLLEGE OF PHARMACY

### THE FACULTY, 1927-1928

Matthew Lyle Spencer, Ph.D. (Chicago).....	<i>President</i>
David Thomson, B.A. (Toronto).....	<i>Dean of Faculties</i>
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Assistant Dean of Faculties</i>
Charles Willis Johnson, Ph.C., Ph.D. (Michigan).....	<i>Professor of Pharmacocutical Chemistry; Dean of the College of Pharmacy and State Chemist</i>
Eldin Verne Lynn, A.B. (Washington), Ph.D. (Wisconsin),.....	<i>Associate Professor of Pharmacology and Chemistry</i>
Henry August Langenhan, Ph.G. (Illinois), Ph.D. (Wisconsin),.....	<i>Associate Professor of Pharmacy</i>
Forest Jackson Goodrich, Ph.C., Ph.D. (Washington).....	<i>Assistant Professor of Pharmacy and Materia Medica</i>
Frederick V. Lofgren, Ph.C., M.S. (Washington).....	<i>Instructor in Pharmacy</i>
Harriet V. Snidow, Ph.G., B.S. (Oregon A.C.), M.S. (Washington).....	<i>Associate in Pharmacy</i>
Cornelius Osseward, Ph.G. (New York College of Pharmacy, Dept. of Columbia University), Ph.C. (Northwestern University).....	<i>Lecturer on Pharmacy</i>
Mary Lucille Turnacliiff, Ph.C., B.S. (Washington).....	<i>Assistant State Chemist</i>
Russell Cain, Ph.C., B.S. (Washington)...	<i>Assistant State Chemist</i>
Frank Lee, Ph.C., M.S. (Washington) Arthur A. Denny Fellowship, 1926-27.....	
Ludwig Metzger.....	<i>In Charge of Garden of Medical Plants</i>
<hr/>	
Frederick Morgan Padelford, Ph.D. (Yale).....	<i>Professor of English and Dean of the Graduate School</i>
Frederick Arthur Osborn, Ph.D. (Michigan).....	<i>Professor of Physics</i>
Pierre Joseph Frein, Ph.D. (Johns Hopkins).....	<i>Professor of Romantic Languages</i>
John Weinzirl, Dr.P.H. (Harvard).....	<i>Professor of Bacteriology</i>
Leslie J. Ayer, J.D. (Chicago).....	<i>Professor of Law</i>
William E. Cox, A.M. (Texas).....	<i>Professor of Economics and Dean of the College of Business Administration</i>
George Burton Rigg, Ph.D. (Chicago).....	<i>Associate Professor of Botany</i>
Ernest Otto Eckelman, Ph.D. (Heidelberg).....	<i>Assistant Professor of German</i>
Ell Victor Smith, Ph.D. (Northwestern).....	<i>Assistant Professor of Zoology</i>

## ORGANIZATION AND EQUIPMENT

The College of Pharmacy was organized in 1894 to provide opportunity for young men and women to become well trained practical pharmacists. The work of the original two-year course has been extended to three-four-and-five-year courses. In the three-year course training is offered in technical and commercial pharmacy; in the four-year course an opportunity is offered for training in more advanced scientific pharmacy with a liberal training in other sciences and arts. A four-year course is also offered which combines scientific training in pharmacy with business administration. The five-year or graduate course offers opportunity for more advanced training in scientific pharmacy and allied sciences and research in one of the most fertile fields of modern science. Graduate work may also be extended in courses leading to the doctorate degree.

## REGISTRATION AS A PHARMACIST IN THE STATE OF WASHINGTON

1. An applicant for registration must be a graduate of a College of Pharmacy recognized by the Department of Licenses.
2. A graduate of the three-, four or five-year course of the *University of Washington College of Pharmacy* has the right to register as a pharmacist without further examination and without the requirement of practical experience in a pharmacy.
3. A graduate of any two-year course of a recognized College of Pharmacy must have two years of practical experience and pass the examination under the direction of the state department of licenses as listed in paragraph five.
4. A graduate of a recognized college of pharmacy located outside of the State of Washington may become a registered pharmacist as follows.
  - (a) A graduate of a two-year course must have two years of practical experience and pass an examination as listed under paragraph five.
  - (b) A graduate of a three-year course must have one year of practical experience and pass an examination as listed under paragraph five.
  - (c) A graduate of a four-year course is not required to have practical experience but must pass an examination as listed under paragraph five.
5. The examination embraces the following subjects: pharmacy, materia medica, chemistry, toxicology, and posology, compounding prescriptions, identification of drugs, and laws relating to the practice of pharmacy in Washington. The grade must not be less than 60% in any one subject and a general average of 70%.
6. Persons who register by examination in the State of Washington can become registered in forty-three other states of the Union without further examination. Graduates of the *University of Washington College of Pharmacy* are urged to register by passing the examination as listed in paragraph five so they may have the privilege of reciprocal registration in other states without examination.
7. A registered pharmacist must be over twenty-one years of age. Persons under twenty-one shall be classified as assistant registered pharmacists until the age of majority is attained.
8. Persons registered by examination in other states may register as a pharmacist in Washington without examination other than in

the subject of laws relating to the practice of pharmacy in the state of Washington, providing such persons are graduates of recognized colleges of pharmacy.

9. Recognized colleges of pharmacy (see rule 10 of handbook on pharmacy law issued by the state department of licenses) are such colleges as hold membership in the American Association of Colleges of Pharmacy and such foreign colleges of pharmacy as meet the standards and requirements of the American Association of Colleges of Pharmacy.
10. Applicants for registration as a pharmacist should communicate with the state department of licenses, Olympia, Washington, for proper blanks and instructions. A fee of ten dollars for registration is payable to the state treasurer.

*Higher Standards in Pharmacy.*—The minimum course of study in the College of Pharmacy is *Three Years*. The aim of the course is to give thorough scientific training for retail pharmacists; if the student desires, he may elect certain studies in the College of Business Administration that will better fit him for the business side of retail pharmacy.

Retail pharmacy is recognized both as a profession and a business. The College of Pharmacy desires to meet these two conditions as far as possible. Special attention is given to a thorough scientific training for the compounding and dispensing of drugs and medicines. Such business training will be included as time will permit in the three-year course. Students desiring further business training can complete, in one year more, the four-year combined scientific and business course. In this four-year course the student receives training in economics, psychology, business law, accounting, advertising, salesmanship and business management, useful in the every day life of the retail pharmacy.

Students desiring more extensive training in scientific pharmacy may complete the three-year course by including advanced work in prescriptions, manufacturing pharmacy, toxicology, physiological chemistry and bacteriology. Graduates of this course are trained for positions in strictly prescription stores and for work in clinical diagnosis.

Graduates of the four-year scientific courses are trained for positions as expert laboratory workers in State and Federal laboratories, bacteriologists for physicians, city boards of health, and for State and Federal laboratories, manufacturing pharmacists for large pharmaceutical houses, and as teachers in colleges of pharmacy.

It should be noted that the college sets a high standard for pharmaceutical training and that a number of opportunities are open to graduates who take the time to thoroughly prepare themselves for responsible positions.

*Preparation for Medicine.*—Students desiring training that will give them clear entrance to colleges of medicine and also professional training in pharmacy should refer to curriculum number 4, page 12 of this bulletin. Students completing this course receive both the Ph.C. and B.S. degrees at the end of the four-year course. Pharmaceutical training is an excellent preparation for medicine. It gives the student a knowledge of drugs and medicines that can be obtained in no other way and the graduate in pharmacy who completes medicine has the benefit of the two professions.

*American Association of Colleges of Pharmacy.*—The College of Pharmacy is a member of the American Association of Colleges of Pharmacy. The objects of the association are: to promote closer relations between the several colleges of pharmacy of the United States, to standardize pharma-



ceutical education and to encourage a higher standard of proficiency for members of the profession.

#### GENERAL INFORMATION

*Garden of Medicinal Plants.*—The College of Pharmacy maintains on the campus a garden in which plants of pharmaceutical importance are cultivated. The area and scope of this garden have been gradually extended, until the college has a complete collection of medicinal plants which furnishes valuable material for classes in botany, materia medica and drug assay, and for research.

*Service to Pharmacists of the State.*—It is the desire of the college to render every possible service to pharmacists of the state. We therefore invite the pharmacists to write us in regard to their prescription difficulties and manufacturing problems. Many pharmacists are now availing themselves of this privilege, and it is our wish to extend this service to the entire profession. Send your prescriptions and problems with a history of difficulties encountered to Professor H. A. Langenhan, who is in charge of practical pharmacy courses in the College of Pharmacy.

*Food and Drug Analysis.*—Enactment of the Food and Drug Act by Congress, and of similar legislation by most of the states (Washington included), has given great importance to pharmaceutical education. It is at once apparent that knowledge of drugs is equally important with chemistry in the administration and enforcement of this legislation. The graduate in chemistry is not wholly qualified to act as a food and drug inspection chemist for the government, states, private individuals, and corporations, if he is not trained in those subjects included in the collective name of pharmacy. These allied subjects are: Theory and practice of pharmacy, manufacturing pharmacy, drug assaying, pharmaceutical botany, study of the United States Pharmacopoeia and National Formulary, pharmacognosy, materia medica and therapeutics, etc. A great many pharmaceutical chemists are needed to carry out the analytical processes involved in the enforcement of this legislation, but the number of men adequately trained is very limited. Students with high school training are urged to consider these opportunities and to prepare themselves for such positions. The dean of the College of Pharmacy is chemist for the Washington State Department of Agriculture and is in close touch with government food and drug work. Courses are offered fitting the student for this line of work.

*Women in Pharmacy.*—Opportunities for women in pharmacy are as great as for men. Women are finding a place in retail pharmacy, and as hospital pharmacists, and are becoming noted for the satisfaction they give in both the scientific and business side of the average drug store. Women graduates of the four-year course are giving excellent satisfaction as food and drug chemists, bacteriologists and as teachers in colleges of pharmacy.

*The Arthur A. Denny Fellowship.*—The College of Pharmacy is indebted to the Arthur A. Denny estate for a fellowship that pays \$500 a year to the student selected for this honor. The fellowship is granted each year to a graduate of the four-year course in pharmacy. The graduate is selected on the basis of excellence in scholarship and promise of ability to do research work in some subject of pharmaceutical importance.

*Observation Trips.*—Observation trips made each year by classes in pharmacy to various manufacturing and wholesale establishments of Seattle and to large retail stores are an important feature of the work of the college. Among places visited in 1926-1927 were Stewart & Holmes Drug Company, branch houses of Parke, Davis & Co., H. K. Mulford Company

and some of the leading prescription and commercial pharmacies of the city, and to the hydrastis and ginseng farm of Mr. C. E. Thorpe near the University campus.

*Laboratories.*—For description of pharmacy, materia medica and chemistry laboratories, see page 36.

*Library Facilities.*—A branch of the University library containing books and current publications on pharmacy and chemistry is maintained in the science reading room to the general library. Many rare old books relating to the development of pharmacy and of Pharmacopoeias have been added recently.

#### REQUIREMENTS FOR ADMISSION

*Correspondence.*—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 42, 49 and 50.

*Freshman Standing.*—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 43.

*Advanced Standing.*—Applicants for advanced standing are required to furnish a complete certified statement of both preparatory and college credits, with a letter of honorable dismissal from the institution last attended.

*Admission by Examination.*—Any graduate of an accredited secondary school who fails to meet the scholarship requirement for admission, has the privilege of qualifying for admission by passing the regular University entrance examinations in a sufficient number of subjects in which he has fallen below the grade of 80, to bring his average grade up to the required two-thirds above 80. The successful passing of these examinations, however, will require a very thorough review of the subjects concerned after the work has been completed in high school.

Graduates desiring to take advantage of this privilege should consult with their principals regarding the best method of preparing for the entrance examinations. They should also notify the registrar of the University of their intention of taking examinations.

*Admission to the five-year course leading to the degree of master of science in pharmacy.*—Candidates for the degree of master of science, must have received the bachelor's degree from this college or from some other college of equal rank maintaining a four-year course which is the equivalent of the course at this institution.

#### DEGREES

1. The degree of pharmaceutical chemist (Ph.C.) will be conferred upon any student who has complied with the entrance conditions and completed the three-year course.

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*Note.*—Any student who has not had one year of physiology in high school and who enters the College of Pharmacy deficient in 5 hours (one-half unit) of elective science may register for Physiology 6 or 7 to clear entrance and shall then later be held for five hours of advanced physiology to complete college requirement.

2. The degree of bachelor of science (B.S.) will be conferred upon any student who has fulfilled the entrance requirements and completed one of the four-year courses as outlined. This degree with honors may be conferred upon a student of the College of Pharmacy if recommended for this distinction by the pharmacy faculty.

3. The degree of master of science in pharmacy (M.S.) will be conferred upon any graduate of the four-year course who has completed one year of graduate work and presented a satisfactory thesis.

4. The degree of doctor of philosophy (Ph.D.) with major and thesis in the pharmaceutical field may be taken by meeting all requirements of the graduate school. The bulletin of the graduate school should be consulted for information concerning graduate degrees.

#### CURRICULA REQUIRED FOR GRADUATION

1. A three-year course which prepares its graduates for responsible positions as practical pharmacists. The first two years of all courses are the same. At the beginning of the third year the student must select the type of training he wishes for the next one or two years. Opportunity is given to specialize in advanced prescription and manufacturing pharmacy, business courses including economics, business law, accounting, business report writing, advertising, salesmanship, income tax problems, etc., food chemistry, advanced materia medica and medicinal plant cultivation, advanced pharmaceutical chemistry, toxicology and clinical diagnosis, bacteriology, and other pre-medical subjects.

2. A four-year scientific course which offers well-rounded scientific and liberal training. Graduates of this course are prepared for positions as, (a) practical and manufacturing pharmacists; (b) teachers in colleges of pharmacy; (c) food and drug inspection chemists and bacteriologists in the United States Civil Service; (d) pharmaceutical journalism.

3. A four-year combined scientific and business course which includes the regular pharmacy work of the three-year course together with advanced training in pharmacy, and courses in the College of Business Administration and Schools of Journalism and Law which insure the student a thorough business training. Special attention will be given to courses in business law, advertising, accounting, salesmanship, insurance, money and banking and business organization. This course is designed to produce well trained men for either retail or wholesale pharmacy.

4. A four-year pharmacy course which includes all of the required work of the three-year course in pharmacy and such subjects as will give the graduate clear entrance to medical schools. A student completing this course and a course in medicine has the benefit of training in the two professions. The two degrees Ph.C. and B.S. are given at the completion of this course.

5. A five-year course offers opportunity to the four-year graduate to do graduate and research work in some line of scientific pharmacy and graduate work in some branch of allied science. Graduates of this course are prepared for responsible positions in many different lines of work.

## 1. WITH DEGREE OF PHARMACEUTICAL CHEMIST. (Three-Year Course.)

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Pharmacy 1 .....	5	Pharmacy 2 .....	5	Pharmacy 3 .....	5
Chemistry 8 .....	5	Chemistry 9 .....	5	Chemistry 10 .....	5
Physiology 6 .....	5	Botany 13 .....	5	Botany 14 .....	4
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Pharmacy 4 .....	2
				Mil. Sci. or Phys. Ed... 1%	

## SECOND YEAR

Chemistry 37 .....	5	Chemistry 38 .....	5	Chemistry 39 .....	5
Pharmacy 5 .....	5	Pharmacy 6 .....	5	Pharmacy 7 .....	4
Pharmacy 9 .....	3	Pharmacy 10 .....	3	Pharmacy 11 .....	3
Pharmacy 12 .....	3	Pharmacy 13 .....	3	Pharmacy 15 .....	1
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		English 4 .....	3
				Mil. Sci. or Phys. Ed... 1%	

## THIRD YEAR

Pharmacy 101 .....	2	Pharmacy 102 .....	2	Pharmacy 103 .....	2
Pharmacy 117 .....	2	Pharmacy 118 .....	2	Pharmacy 119 .....	2
Bacteriology 101 .....	5	Approved Elective .....	11	Approved Elective .....	9
Approved Elective .....	6			Pol. Sci. 101.....	2

Total scholastic hours for graduation—185 plus 10 hours military or physical education. Electives in junior year may be arranged to meet requirements of any one of the four-year courses.

## 2. WITH DEGREE OF BACHELOR OF SCIENCE. (Four-Year Scientific Course.)

## FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Pharmacy 1 .....	5	Pharmacy 2 .....	5	Pharmacy 3 .....	5
Chemistry 8 .....	5	Chemistry 9 .....	5	Chemistry 10 .....	5
Physiology 6 .....	5	Botany 13 .....	5	Botany 14 .....	4
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Pharmacy 4 .....	2
				Mil. Sci. or Phys. Ed... 1%	

## SECOND YEAR

Chemistry 37 .....	5	Chemistry 38 .....	5	Chemistry 39 .....	5
Pharmacy 5 .....	5	Pharmacy 6 .....	5	Pharmacy 7 .....	4
Pharmacy 9 .....	3	Pharmacy 10 .....	3	Pharmacy 11 .....	3
Pharmacy 12 .....	3	Pharmacy 13 .....	3	Pharmacy 15 .....	1
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		English 4 .....	3
				Mil. Sci. or Phys. Ed... 1%	

## THIRD YEAR

Pharmacy 101 .....	2	Pharmacy 102 .....	2	Pharmacy 103 .....	2
Pharmacy 117 .....	2	Pharmacy 118 .....	2	Pharmacy 119 .....	2
Pharmacy 125 .....	1	Pharmacy 126 .....	1	Pharmacy 127 .....	1
Pharmacy 113 .....	5	Pharmacy 114 .....	5	Pharmacy 115 .....	5
Bacteriology 101 .....	5	Approved Elective .....	5	Pharmacy 112 .....	3
				Approved Elective .....	2

## FOURTH YEAR

Physics 1 .....	5	Physics 2 .....	5	Pol. Sci. 101.....	2
Physics 195 .....	5	Physics 196 .....	5	Pharmacy 197 .....	5
Approved Elective .....	5	Approved Elective .....	5	Approved Elective .....	8

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.

### 3. WITH DEGREE OF BACHELOR OF SCIENCE. (Four-Year Combined Scientific and Business Course.)

#### FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Pharmacy 1 .....	5	Pharmacy 2 .....	5	Pharmacy 3 .....	5
Chemistry 8 .....	5	Chemistry 9 .....	5	Chemistry 10 .....	5
Physiology 6 .....	5	Botany 13 .....	5	Botany 14 .....	4
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Pharmacy 4 .....	2
				Mil. Sci. or Phys. Ed... 1%	

#### SECOND YEAR

Chemistry 37 .....	5	Chemistry 38 .....	5	Chemistry 39 .....	5
Pharmacy 5 .....	5	Pharmacy 6 .....	5	Pharmacy 7 .....	4
Pharmacy 9 .....	3	Pharmacy 10 .....	3	Pharmacy 11 .....	3
Pharmacy 12 .....	3	Pharmacy 13 .....	3	Pharmacy 15 .....	1
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		English 4 .....	3
				Mil. Sci. or Phys. Ed... 1%	

#### THIRD YEAR

Bus. Admin. 54 (Law).. 3	Bus. Admin. 55 (Law).. 3	Bus. Admin. 56 (Law).. 3
Pharmacy 101 .....	Pharmacy 102 .....	Pharmacy 103 .....
Pharmacy 117 .....	Pharmacy 118 .....	Pharmacy 119 .....
Pharmacy 125 .....	Pharmacy 126 .....	Pharmacy 127 .....
Pharmacy 113 .....	Pharmacy 114 .....	Pharmacy 115 .....
Bacteriology 101 .....	Psychology 1 .....	Pharmacy 112 .....

#### FOURTH YEAR

Bus. Adm. 62 (Acc'tg.). 5	Bus. Adm. 63 (Acc'tg.). 5	Bus. Adm. 8 (Econom.). 3
Bus. Admin. 146..... 5	Bus. Admin. 147..... 5	Approved Elective .... 5
Pharmacy 195 .....	Pharmacy 196 .....	Pharmacy 197 .....
		Pol. Sci. 101..... 2

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.

### 4. WITH DEGREE OF BACHELOR OF SCIENCE. (Four-Year Pharmacy Course.)

#### FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Pharmacy 1 .....	5	Pharmacy 2 .....	5	Pharmacy 3 .....	5
Chemistry 8 .....	5	Chemistry 9 .....	5	Chemistry 10 .....	5
Physiology 6 .....	5	Botany 13 .....	5	Botany 14 .....	4
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Pharmacy 4 .....	2
				Mil. Sci. or Phys. Ed... 1%	

#### SECOND YEAR

Chemistry 37 .....	5	Chemistry 38 .....	5	Chemistry 39 .....	5
Pharmacy 5 .....	5	Pharmacy 6 .....	5	Pharmacy 7 .....	4
Pharmacy 9 .....	3	Pharmacy 10 .....	3	Pharmacy 11 .....	3
Pharmacy 12 .....	3	Pharmacy 13 .....	3	Pharmacy 15 .....	1
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Elective .....	3
				Mil. Sci. or Phys. Ed... 1%	

#### THIRD YEAR

Physics 1 .....	5	Physics 2 .....	5	Physics 3 .....	5
Bacteriology 101 .....	5	English 1 .....	5	English 2 .....	5
Foreign Lang. .... 5		Foreign Lang. .... 5		Foreign Lang. .... 5	

#### FOURTH YEAR

Pharmacy 101 .....	2	Pharmacy 102 .....	2	Pharmacy 103 .....	2
Pharmacy 117 .....	2	Pharmacy 118 .....	2	Pharmacy 119 .....	2
Pharmacy 125 .....	1	Pharmacy 126 .....	1	Pharmacy 127 .....	1
Zoology 3 .....	5	Zoology 4 .....	5	Approved Elective .... 8	
Approved Elective .... 5		Approved Elective .... 5		Pol. Sci. 101..... 2	

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.

5. WITH DEGREE OF MASTER OF SCIENCE IN PHARMACY. (Five-Year Course.)

Graduates of the four-year course may continue work for the master's degree as follows:

Not more than 22 credits allowed outside of the department of pharmacy.

Not less than 23 credits shall be elected in the department of pharmacy. At least 12 credits of the major work must be a research problem and the preparation of a thesis. Examination and thesis must conform to the regulations of the Graduate School.

6. WITH DEGREE OF DOCTOR OF PHILOSOPHY.

The degree of doctor of philosophy (Ph.D.) with major and thesis in the pharmaceutical field may be taken by meeting all requirements of the graduate school. The bulletin of the graduate school should be consulted for information concerning graduate degrees.

COURSES OF STUDY

For description of courses see Departments of Instruction section.

# GRADUATE SCHOOL

## THE FACULTY, 1927-1928

Matthew Lyle Spencer, Ph.D. (Chicago)	.....President
David Thomson, B.A. (Toronto)	.....Professor of Latin; Dean of Faculties, and Dean of the College of Liberal Arts
Frederick Morgan Padelford, Ph.D. (Yale)	.....Professor of English; Dean of the Graduate School; Assistant Dean of Faculties
Henry Landes, A.M. (Harvard)	.....Professor of Geology and Mineralogy; Dean of the College of Science
Edmond Stephen Meany, M.L. (Wisconsin)	.....Professor of History
Trevor Kincaid, A.M. (Washington)	.....Professor of Zoology
Milnor Roberts, A.B. (Stanford)	.....Professor of Mining Engineering and Metallurgy; Dean of the College of Mines
Frederick Arthur Osborn, Ph.D. (Michigan)	.....Professor of Physics; Director of the Physics Laboratories
William Savery, Ph.D. (Harvard)	.....Professor of Philosophy
Charles Willis Johnson, Ph.D. (Michigan)	.....Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy
Pierre Joseph Frein, Ph.D. (Johns Hopkins)	.....Professor of Romance Languages
Theodore Christian Frye, Ph.D. (Chicago)	.....Professor of Botany
Robert Edouard Moritz, Ph.D. (Nebraska), Ph.N.D. (Strassburg)	.....Professor of Mathematics
Carl Edward Magnusson, Ph.D. (Wisconsin), E.E. (Minnesota)	.....Professor of Electrical Engineering; Dean of the College of Engineering
Everett Owen Eastwood, C.E., M.A. (Virginia), S.B. (Massachusetts Institute of Technology),	Professor of Mechanical Engineering
Herbert Henry Gowen, D.D. (Whitman), F.R.G.S., F.R.S.A.	.....Professor of Oriental History, Literature and Institutions
Oliver Huntington Richardson, Ph.D. (Heidelberg)	.....Professor of European History
Henry Kretzer Benson, Ph.D. (Columbia)	.....Professor of Chemical Engineering
John Weinzirl, Ph.D. (Wisconsin), Dr.P.H. (Harvard)	.....Professor of Bacteriology
Hugo Winkenwerder, M.F. (Yale)	.....Professor of Forestry; Dean of the College of Forestry
Vernon Louis Farrington, A.B. (Harvard), A.M. (Emporia)	.....Professor of English
Frederick Elmer Bolton, Ph.D. (Clark)	.....Professor of Education; Dean of the School of Education
Edwin John Vickner, Ph.D. (Minnesota)	.....Professor of Scandinavian Languages
Effie Isabel Raitt, M.S. (Columbia)	.....Professor of Home Economics
Stevenson Smith, Ph.D. (Pennsylvania)	.....Professor of Psychology
Allen Rogers Benham, Ph.D. (Yale)	.....Professor of English
John Nathan Cobb	.....Professor of Fisheries and Dean of the College of Fisheries
William Maurice Dehn, Ph.D. (Illinois)	.....Professor of Chemistry
Howard Woolston, Ph.D. (Columbia)	.....Professor of Sociology
George McPhail Smith, Ph.D. (Freiburg)	.....Professor of Inorganic Chemistry
Burt Persons Kirkland, A.B. (Cornell)	.....Professor of Forestry
Charles Edwin Weaver, Ph.D. (California)	.....Professor of Geology
John Locke Worcester, M.D. (Birmingham School of Medicine)	.....Professor of Anatomy
Howard Hall Preston, Ph.D. (Iowa)	.....Professor of Business Administration
George Wallace Umphrey, Ph.D. (Harvard)	.....Professor of Romance Languages
Edward D. Randolph, Ph.D. (Columbia)	.....Professor of Education
Joseph Daniels, M.S. (Lehigh)	.....Professor of Mining Engineering and Metallurgy
Charles William Harris, C.E. (Cornell)	.....Professor of Civil Engineering
Friedrich Kurt Kirsten, B.S., E.E. (Washington)	.....Professor of Electrical Engineering
William Edward Cox, A.M. (Texas)	.....Professor of Business Administration; Dean of the College of Business Administration
Alexander C. Roberts, Ph.D. (Washington)	.....Professor of Education; Director of the Extension Service; Dean of the Summer Session
Charles Emanuel Martin, Ph.D. (Columbia)	.....Professor of Political Science
Edgar Allen Loew, B.S. (E.E.) (Wisconsin)	.....Professor of Electrical Engineering
Herbert Ellsworth Cory, Ph.D. (Harvard)	.....Professor in Liberal Arts
Roy Martin Winger, Ph.D. (Johns Hopkins)	.....Professor of Mathematics

Edward Godfrey Cox, Ph.D. (Cornell).....	Professor of English
Allen Fuller Carpenter, Ph.D. (Chicago).....	Professor of Mathematics
Roderick Duncan McKenzie, Ph.D. (Chicago).....	Professor of Sociology
Thomas Kay Sidey, Ph.D. (Chicago).....	Professor of Latin and Greek
Edward McMahon, A.M. (Wisconsin).....	Professor of American History
Herman Vance Tartar, Ph.D. (Chicago).....	Professor of Chemistry
Dudley David Griffith, Ph.D. (Chicago).....	Professor of English
Henry Louis Brakel, Ph.D. (Cornell).....	Associate Professor of Engineering Physics
George Burton Rigg, Ph.D. (Chicago).....	Associate Professor of Botany
Charles Goggio, Ph.D. (Wisconsin).....	Associate Professor of Romance Languages
Eldin Verne Lynn, Ph.D. (Wisconsin).....	Associate Professor of Pharmacology and Chemistry
Henry A. Langenhan, Ph.D. (Wisconsin).....	Associate Professor of Pharmacy
Walter Isaacs, B.S. (James Milliken).....	Associate Professor of Fine Arts
Macy Milmore Skinner, Ph.D. (Harvard).....	Associate Professor of Business Administration
Thomas Gordon Thompson, Ph.D. (Washington).....	Associate Professor of Chemistry
Grace Goldena Denny, A.M. (Columbia).....	Associate Professor of Home Economics
William Henry George, Ph.D. (Harvard).....	Associate Professor of Political Science
Samuel Herbert Anderson, Ph.D. (Illinois).....	Associate Professor of Physics
Bror Leonard Grondal, M.S.F. (Washington).....	Associate Professor of Forestry
Edwin Ray Guthrie, Ph.D. (Pennsylvania).....	Associate Professor of Psychology
Hewitt Wilson, Cert. Eng'r. (Ohio State University).....	Associate Professor of Ceramics
Theresa Schmid McMahon, Ph.D. (Wisconsin).....	Associate Professor of Economics
Ernest Otto Eckelman, Ph.D. (Heidelberg).....	Associate Professor of German
John Earl Guberlet, Ph.D. (Illinois).....	Associate Professor of Zoology
Edward Noble Stone, M.A. (Olivet).....	Associate Professor of Classical Languages
Carl Paige Wood, M.A. (Harvard).....	Associate Professor of Music
John H. Jessup, M.A. (Iowa State Teachers College).....	Associate Professor of Education
Bill Victor Smith, Ph.D. (Northwestern).....	Assistant Professor of Zoology
Clarence Raymond Corey, E.M. (Montana State School of Mines), A.M. (Columbia), Assistant Professor of Mining Engineering and Metallurgy	
John William Hotson, Ph.D. (Harvard).....	Assistant Professor of Botany
George Edward Goodspeed, Jr., B.S. (Massachusetts Institute of Technology).....	Assistant Professor of Geology
Curtis Talmadge Williams, Ph.D. (Clark).....	Assistant Professor of Education
Louis Peter DeVries, Ph.D. (Wisconsin).....	Assistant Professor of Romance Languages
Henry Stephen Lucas, Ph.D. (Michigan).....	Assistant Professor of History
August Dvorak, Ph.D. (Minnesota).....	Assistant Professor of Education
Rachel Emilie Hoffstadt, Ph.D. (Chicago), Dr.S. (Johns Hopkins).....	Assistant Professor of Bacteriology
Robert Cunningham Miller, Ph.D. (California).....	Assistant Professor of Zoology
*Ralph Mason Blake, Ph.D. (Harvard).....	Assistant Professor of Philosophy
*Kenneth Cole, B.Lit. (Oxford).....	Assistant Professor of Political Science
*Jessie Irene Rowntree, M.S. (Chicago).....	Assistant Professor of Home Economics
Helen Neilson Rhodes, B.A. (Washington).....	Assistant Professor of Design
Eldon Griffin, B.A. (Harvard).....	Assistant Professor of Oriental Languages
Leland Hargrave Creer, Ph.D. (California).....	Assistant Professor of History
Edgar Marion Draper, Ph.D. (Washington).....	Assistant Professor of Education
Cecil Leonard Hughes, Ph.D. (Washington).....	Assistant Professor of Education
Forest Jackson Goodrich, Ph.D. (Washington).....	Assistant Professor of Pharmacy and Materia Medica

Graduate Council: Dean Padelford, *Chairman*; Deans Thomson, Magnusson; Professors Meany, Osborn, Woolston, Williams, Guthrie, Clark, Tartar, Guberlet, Burd and Stone. Lois Janet Wentworth, A.B. .... *Secretary of the Graduate School*

\*Absent on leave 1927-28.



## GENERAL STATEMENT

**SPECIAL NOTE.**—For detailed information concerning special facilities for graduate work in the various departments, consult the bulletin issued by the Graduate School.

**The Aims of Graduate Study.**—The principal aims of graduate study are the development of intellectual independence through cultivation of the scientific, critical and appreciative attitude of mind, and promotion of the spirit of research. The graduate student is therefore thrown more largely upon his own resources than the undergraduate, and must measure up to a more severe standard. The University is consistently increasing the emphasis on graduate work in order that it may be a strong center for advanced study.

**Organization.**—The Graduate School was formally organized in May, 1911. The graduate faculty consists of men offering courses primarily designed for graduate students.

**Fees.**—Graduate students pay a tuition fee of \$15 a quarter for the autumn, winter and spring quarters, if residents of the State of Washington or of Alaska, or \$50 a quarter for each of these quarters if non-residents. The regular fee for the summer quarter is \$20 for students at the University; \$25, including a \$5 laboratory fee, for students at the Biological Station.

Members of the staff on a full-time teaching schedule are relieved of all tuition. Teaching fellows, graduate scholars—formerly known as graduate assistants and graduate readers—and non-instructional employees of the University pay a tuition fee of one dollar per quarter for each credit hour on the election blank.

Incidental fees, such as library and laboratory fees, are required from all who receive graduate instruction.

## LIBRARY FACILITIES

The University general library contains 174,668 volumes, and receives virtually all of the publications of learned societies. The law library contains approximately 48,883 volumes, and there are well equipped departmental libraries in chemistry, English, mathematics, education, and biological science. The Seattle public library of some 384,000 volumes is open to students without charge.

Collections of special significance are mentioned in the departmental announcements.

## SPECIAL FACILITIES

**Bailey and Babette Gatzert Foundation for Child Welfare.**—On December 21, 1910, this foundation was established by a gift to the University of \$30,000. The purpose of the foundation is (1) to conduct a laboratory for the mental and physical examination of children to determine their individual defects and aptitudes and, in accordance with the results of the examination, to suggest the best means of education and treatment; (2) to assist in establishing the child welfare agencies and child study laboratories throughout the state, and (3) to carry on research in child psychology.

**The Alice McDermott Memorial Fund.**—The late Mrs. Josephine P. McDermott made provision in her will for the establishment of the Alice McDermott Memorial Fund at the University of Washington. The amount of this bequest is one hundred thousand dollars (\$100,000) available for one or both of the following purposes:

1. Research work in or in connection with the University of Washington tending to promote the prevention of tuberculosis.

2. The purchase of radium for research work in connection with disease or for actual treatment thereof.

*Engineering Experiment Station.*—The purpose of the station is to aid in the industrial development of the state and nation by scientific research and by furnishing information for the solution of engineering problems.

The scope of the work is two-fold:

1. To investigate and to publish information concerning engineering problems of a more or less general nature that would be helpful in municipal, rural, and industrial affairs;

2. To undertake extended research and to publish reports on engineering and scientific problems.

Every effort will be made to cooperate effectively with professional engineers and the industrial organizations in the state. Investigations of primary interest to the individual or corporation proposing them, as well as those of general interest, will be undertaken through the establishment of fellowships.

For administrative purposes, the work of the station is organized into eight divisions: (1) Forest products, (2) mining, metallurgy and ceramics; (3) aeronautical engineering, (4) chemical engineering and industrial chemistry, (5) civil engineering, (6) electrical engineering, (7) mechanical engineering, (8) physics standards and tests.

*Puget Sound Biological Station.*—The Puget Sound Biological Station, open during the summer quarter for classes and to research workers by special arrangement at other times, is located at Friday Harbor in San Juan County. This region is unsurpassed in natural advantages for a marine biological laboratory, perhaps the most fortunate in the country. The very varied conditions result in the presence of a very diverse flora and fauna. The protected shores make it easy and comparatively safe to get about.

The sea life embraces a great abundance of the following animal forms: hydroids, echinoderms, shore crabs, worms, bivalves, gastropods, nudibranchs, star fish, sea urchins, anemones, sea-cucumbers and barnacles, medusae and jelly fish, and a hundred species of other fish. Water fowl nest on rocky cliffs.

All of the four groups of algae are abundantly represented, between 75 and 100 species being found, exclusive of microscopic forms. Among the brown algae, the kelps predominate, Nereocystic being the most abundant, though the other species of kelp are common. Fucus is the most prevalent of the rock weeds. Among the red algae are Polysiphonia Gigartina. Porphyra and Ampiroa; among the green algae, Ulva, Enteromorpha and Codium; and among the blue-green algae, Nostoc and Dermocarpa. Diatoms of many forms abound.

With this rich fauna and flora, some of which are available in shore work and others brought up by the dredge, there are large opportunities for work in taxonomy, morphology, cytology, ecology and physiology. Since the region is still somewhat new scientifically, there is much important work to be done in taxonomy and local distribution. As there are several forms of which the life history is not completely known, the morphological work is attractive. The problems in physiology, both in the field and in the laboratory, are numerous. The opportunities for work in ecology are excellent and many of them will have important economic bearing on fisheries problems. Thus among the important lines of investigation may be mentioned study of the diatoms, bacteria, and various fish parasites.

The University owns 484 acres with about two miles of shore line, and the state has made the whole county a marine preserve. Three new buildings have been erected within the past three years; two of them are permanent fireproof laboratory buildings. The station publishes a series, now in its third volume, known as the Publications of the Puget Sound Biological Station. There is a station library of about 1,000 volumes.

## LABORATORIES

The University has well-equipped laboratories for advanced work in anatomy, botany, ceramics, chemistry, civil, chemical, electrical, mechanical and mining engineering, fisheries, forestry, geology, metallurgy, pharmacy, physics, psychology and zoology. (See pages 30-37).

## GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

*Loretta Denny Fellowships.*—Three fellowships, of \$500 each, open to graduate students in any department of the University. Awarded by the faculty on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Applications should be made on blanks supplied by the dean of the Graduate School and must be in his hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

*Arthur A. Denny Fellowships.*—Six fellowships of \$500 each, open to graduate students in the departments of civil engineering, education, English, history, mining engineering, and pharmacy respectively. Awarded by the departments concerned on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Applicants must be residents of the state of Washington. Application should be made to the heads of departments concerned on blanks supplied by them, and must be in their hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

*National Research Fellowships.*—Fellowships in physics and chemistry, offered by the National Research Council, are open to promising research students, who have already taken the doctor's degree or have equivalent qualifications. A successful candidate can pursue his research at any university or research institution chosen by him and which is acceptable to the appointing board. The salary will ordinarily be \$1800 for the first year. Fellows are eligible for successive reappointments ordinarily with increase in salary. For details address the dean of the Graduate School or the heads of the departments.

*University Honorary Fellowships.*—Three honorary fellowships have been established by the University. These, like the Loretta Denny fellowships, are open to students in any department of the University. They carry no stipend, and are designed to furnish recognition of exceptional scholastic excellence in the case of graduate students who are not eligible for the Loretta Denny or the Arthur A. Denny fellowships, either because they do not need financial assistance or because they are not giving their entire time to their work in the University.

*Research Fellowships in Mining and Metallurgy.*—The College of Mines of the University in cooperation with the United States Bureau of Mines offers five fellowships in mining and metallurgical research. The fellowships are open to graduates of universities and technical schools who are properly qualified to undertake research work. The value of each fellowship is \$720 per year of twelve months. Fellowship holders are required to register as graduate students and to become eligible for the degree of master of science in mining engineering or metallurgy, unless an equivalent degree has previously been earned. Applications are due not later than April 20, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

*Du Pont Fellowship.*—Through its chemical department, Du Pont de Nemours & Co. offer a scholarship of \$700 in chemistry, known as the "Du Pont Scholarship," open to a senior student or graduate student in chemistry or chemical engineering.

*The Bon Marche Industrial Fellowship.*—The Bon Marche of Seattle offers an annual fellowship of \$600 to a graduate student in Home Economics for research work in textiles. The recipient of this fellowship is required to give one-fourth of her time for eleven months to testing of textiles for the Bon Marche.

*The Effie I. Raitt Fellowship.*—The Effie I. Raitt Fellowship of \$600 is offered annually to a graduate student in home economics for research work in nutrition.

*University Teaching Fellowships.*—The University each year provides a number of teaching fellowships in various departments. The graduate student receiving such a fellowship divides his time equally between the studies and assistance in the teaching work of the department in which he is enrolled. These fellowships range from \$540 to \$720.

*Graduate Scholarships.*—A number of graduate scholarships are open to students who perform service as laboratory assistants, assistants in charge of quiz sections, or readers. The remuneration is proportioned to the service, and ranges from \$180 to \$360.

#### ADMISSION

Three classes of students are recognized in the Graduate School:

1. Candidates for the master's degree.
2. Candidates for the doctor's degree.
3. Students not candidates for a degree.

*Admission.*—A graduate of the University or of any other institution of good standing will be admitted to the Graduate School. Before being recognized as a candidate for a degree, however, a student must be approved by a committee appointed by the dean of the Graduate School, which shall also constitute the advisory committee to oversee the student's subsequent work. Unless the committee is already sufficiently acquainted with the candidate's capacity and attainments, there shall be a conference of the committee and the candidate, the purpose of which is two-fold:

(a) To determine whether the student has the quality of mind and the attitude toward advanced work which would justify his going on for an advanced degree.

(b) To satisfy the major and minor departments and the graduate council that the student has the necessary foundation in his proposed major and minor subjects. If he lacks this foundation, he will be required to establish it through undergraduate courses or supervised reading.

If the student is from a college or university which falls below a satisfactory standard in curriculum, efficiency of instruction, equipment or requirements for graduation, he may be required to take other undergraduate courses in addition to those required as a foundation in the major and minor subjects.

As soon after matriculation as feasible, a candidate for an advanced degree must file with the dean of the Graduate School an outline of his proposed work, on a blank provided for that purpose. This blank is submitted to the advisory committee for acceptance or modification. When it has received approval of the graduate council and the student has been notified, he will be regarded as a candidate for a degree.

*Students on the Staff.*—Assistants, associates, or others in the employ of the University are normally permitted to carry a maximum of six hours of graduate work if full-time employees, and a maximum of eleven hours if half-time employees.

*Graduate Study in the Summer.*—As the summer offers leisure for advanced study to a large number of teachers, the University lays special

emphasis on graduate work during the summer quarter. Graduates of colleges or universities in attendance then are urged to enroll for the strictly graduate courses, as these courses give an opportunity to work with a select group of mature students toward the acquisition of an advanced degree.

Graduate students will enroll with the dean of the Graduate School.

Attendance during three summer quarters will satisfy the residence requirement for the master's degree. A fair amount of credit toward the doctor's degree may also be earned in the summer quarter.

*Graduate Credit for Extension Courses.*—(1) Students who have received bachelor's degrees elsewhere may earn graduate credits through the Extension Service under the following limitations:

a. Nine credits (one-fifth of the normal requirement for the master's degree) may be earned in approved Home Study or Extension class courses of graduate standing.

b. Such students must, however, meet the residence requirement of three full quarters.

(2) Students who have earned bachelor's degrees from the University of Washington may earn graduate credits through the Extension Service under the following limitations:

a. Nine credits (one-fifth of the normal requirement for the master's degree) may be earned in approved Home Study or Extension class courses of graduate standing.

b. Such students must meet a residence requirement of two and a half quarters.

## DEGREES

### THE DOCTOR'S DEGREE

*Doctor of Philosophy.*—Graduate students will be received as candidates for the degree of doctor of philosophy in such departments as are adequately equipped to furnish the requisite training. Each department introduces its program of courses with a specific statement of the graduate training that it is prepared to direct, and of the distinctive opportunities that it offers for graduate work. This degree is conferred only on those who have attained proficiency in a chosen field and who have demonstrated their mastery by preparing a thesis which is a positive contribution to knowledge.

The requirements for the degree of doctor of philosophy are as follows:

1. At least three years of graduate work, of which not less than one year must be spent in residence at the University of Washington. If a candidate is otherwise engaged in any regular employment, a correspondingly longer period of study will be required. Before being recognized as a candidate for the degree, a student must be approved by a committee as provided above.

2. Completion of courses of study in a major and one or two minor subjects. This requirement as to the number of minors, however, may in exceptional cases be modified by action of the Graduate Council, making it possible for the candidate to offer more than two minors, or no minor at all. What subjects may be offered as minors shall be determined by the major department with the approval of the Graduate Council. The marks for graduate students shall be "passed," or "failed." In courses open to undergraduates and graduates, the passing grade for a graduate student shall be "B" or above if the course is in his major subject, "C" or above if the course is in his minor subject.

These courses of study cover at least two years of work. The work of the first year is virtually identical with that for the master's degree, and normally the candidate will wish to take this degree incidentally; the work of the second year is of still more advanced character. Not earlier than

the end of the second year and at least a year before the time when the candidate expects to take the degree, the major and minor departments supplemented by a representative from the graduate council, shall submit the candidate to a careful oral and written examination, to determine whether he has the native equipment and the scholarship to warrant him in continuing.

3. The preparation of a thesis, as stated above, embodying the results of independent research. The thesis may properly be initiated in the second year, and should occupy the greater part of the third year. If the thesis is of such a character, or falls in such a department, that it requires library or laboratory facilities beyond the resources of the University, the student will be required to carry on his investigation at some other university, at some large library, or in some special laboratory. This thesis must be approved by a committee appointed by the major department of which the instructor in charge of the thesis shall be a member, and also by a special committee from the graduate council.

4: Examinations as follows:

*The Preliminary Examination.*—An oral, or oral and written examination, covering the major and minor subjects. In so far as the examination is oral, it shall be before a committee appointed by the dean of not less than three representatives of the major department, not less than one representative of each of the minor departments, and a representative of the graduate council. The preliminary examination will normally be taken not less than two quarters before the final examination.

*The Final Examination.*—An oral, or oral and written examination, before the same committee as above. If the preliminary examination was in all respects satisfactory, the final examination shall be on the field of the thesis and such courses as were taken subsequent to the preliminary examination. If the preliminary examination did not meet with the clear approval of the committee, the candidate's entire program, or such parts thereof as may have been designated by the committee, shall be subject to review.

If there is division of opinion in the committee in charge of either examination, the case shall be decided by the graduate council, with right of appeal to the graduate faculty.

5. Evidence of a reading knowledge of scientific French and German and of such other languages as individual departments may require. Such evidence must be filed with the dean and approved by him, and this should preferably be done at least one academic year before the degree is granted. Only in rare cases shall the requirement of a reading knowledge of scientific French and German be waived, and then only when, in the judgment of the council, substitutions for either or both of these languages will be to the advantage of the student's training.

6. One copy of the thesis in typewritten form (or library hand) shall be bound at the expense of the candidate and deposited with the librarian for permanent preservation in the University archives, at least two weeks before the date on which the candidate expects to take the degree.

The thesis, or such parts thereof, or such a digest as may be designated by the council, shall be printed. The candidate shall contribute \$100 to a fund for printing of theses, whether his thesis appears in the University series or elsewhere. From this fund the library is provided with 300 copies and the candidate with 50 copies.

7. A statement certifying that all courses and examinations have been passed and that the thesis has been accepted and properly filed in the library, shall be presented to the dean at least one week before graduation. This statement must bear the signatures of all major and minor instructors in charge of the student's work, of the committee appointed by the major department to pass on the thesis, and of the librarian or his appointed representative.

## THE MASTER'S DEGREE

*Master of Arts.*—The degree of master of arts implies advanced liberal training in some humanistic field, gained through intensive study of one of the liberal arts supplemented by study in one or two supporting subjects. This detailed study culminates in a thesis which, if not an actual contribution to knowledge, is concerned with the organization and interpretation of the materials of learning. Creative work of a high quality may be offered in lieu of a thesis.

*Master of Science.*—The degree of master of science implies training similar to the above in some province of the physical or biological sciences. The thesis for this degree, however, must be an actual contribution to knowledge.

The requirements for the degree of master of arts and master of science are as follows:

1. At least three full quarters or their equivalent spent in undivided pursuit of advanced study. If a candidate has done graduate work elsewhere, his program may be slightly less exacting, but this work must pass review in the examination, and shall not reduce the residence requirement at this University.

2. Completion of a course of study in a major and one or two minor subjects and of a thesis which lies in the major field. The work in the major and minor subjects shall total not less than 36 hours, of which 24 are normally in the major. The thesis normally counts for 9 hours in addition. The marks for graduate students shall be "passed" or "failed." In courses open to undergraduates and graduates, the passing grade for a graduate student shall be "B" or above if the course is in his major subject, "C" or above, if the course is in his minor subject.

The requirements of a minor or minors may be waived, but only on recommendation of the head of the major department and with the consent of the graduate council.

No work in the major subject may be counted toward the master's degree until the candidate has complied with the departmental requirements as to previous work in that subject, which in no case shall be less than eighteen hours.

Elementary or lower division courses may not count toward the minor requirement, and teachers' courses may not count toward either the major or minor requirements.

The preparation of a thesis, as defined above.

4. An oral, or written, or an oral and written examination, given by a committee appointed by the head of the major department, including so far as feasible, all the instructors with whom the student has worked. If division of opinion exists among the examiners, the case shall be decided by the graduate council, with right of appeal to the graduate faculty.

5. The candidate's thesis shall be in charge of the instructor in whose field the subject falls, and it must be approved by a committee of the major department, of which the instructor in charge shall be a member. If the committee is divided in opinion, the case shall be decided by the graduate council, with right of appeal to the graduate faculty. At least two weeks before the date on which the candidate expects to take the degree, one copy of the thesis in typewritten form or printed form (or library hand, in case the thesis is of such a character that it cannot be typewritten) shall be deposited with the librarian for permanent preservation in the University archives. The thesis must meet the approval of the librarian as to form, and the cost of binding must be deposited with the thesis.

6. A statement certifying that all courses and examinations have been passed, and that the thesis has been accepted and properly filed in the library, shall be presented to the dean at least one week before graduation. This

statement must bear the signatures of all instructors in charge of the student's work, of the instructors in charge of the thesis, and of the librarian or his appointed representative.

*Master of Arts and Master of Science in Technical Subjects.*—The degree of master of arts and master of science is given in technical subjects as follows:

- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Electrical Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Ceramic Engineering
- Master of Science in Coal Mining Engineering
- Master of Science in Geology and Mining
- Master of Science in Metallurgy
- Master of Science in Mining Engineering
- Master of Science in Forestry
- Master of Science in Fisheries
- Master of Science in Pharmacy
- Master of Science in Home Economics
- Master of Arts in Music

The requirements for these degrees are essentially the same as those for the degrees of master of arts and master of science.

*Master's Degree in Technical Subjects.*—The master's degree is given in technical subjects as follows:

- Master of Forestry
- Master of Business Administration
- Master of Laws
- Master of Fine Arts

The requirements for these degrees are essentially the same as those for the degree of master of arts and master of science, with the exception that all the work may be in the major.

#### COURSES OF STUDY

For description of courses see Departments of Instruction section.



**DEPARTMENTS OF INSTRUCTION**  
**1927-1928**

## EXPLANATION

This section of the catalogue contains a list of all courses of study offered in the University. The departments are arranged in alphabetical order.

The University reserves the right to withdraw temporarily any course which has not an adequate enrollment at the end of the sixth day of any quarter. For changes in registration, due to withdrawal of a course, no fee will be charged.

Courses bearing numbers from 7 to 99 inclusive are normally offered to freshmen and sophomores; those from 100 to 199 to juniors and seniors, and those from 200 upward to graduate students.

Two or three numbers connected by hyphens indicate a course which ordinarily carries credit only when pursued for the full time; the instructor's permission must be obtained for credit for only a single quarter of such a course. No credit in a beginning foreign language is given for less than two quarter's work.

The credit indicated in connection with each course is the "quarter credit," based on the class period per week.

The descriptions of courses in each department include: (1) the number of the course as used in university records; (2) the title of the course; (3) a brief statement of its subject matter and method; (4) number of quarter credits given; (5) quarter in which it is given (autumn, winter, spring, summer); (6) name of instructor.

Courses preceded by \* are not given in 1927-1928.

Courses preceded by \*\* are given if a sufficient number of students elect them.

## DEPARTMENTS OF INSTRUCTION

### AERONAUTICAL ENGINEERING

#### Aeronautical Laboratory

##### *Professor Kirsten*

**101. Aerodynamics.**—Use of the wind tunnel in determination of the characteristics of aerofoils, selection of aerofoils for a given purpose. Prerequisite, junior standing. Autumn, winter, spring. Three credits. Kirsten.

**111. Aerial Propellers.**—Theory and design of airscrews including review of methods of calculating thrust and efficiency. Prerequisite, junior standing. Three credits; autumn, winter. Kirsten.

**121. Airplane Design.**—Selection of the type and construction of an airplane for a given purpose; computation of performance from aerodynamic data; design of flying boats and seaplanes; distribution of weights and proportioning of parts. Prerequisite, A.E. 101. Three credits; spring. Kirsten.

**\*\*141. Airships.**—Aerostatics, including study of lighter-than-air machines. Prerequisite, A.E. 101. Three credits. Kirsten.

**\*\*161. Aerial Transportation.**—Design and layout of landing fields and aircraft terminals. Aerial transportation as an industrial factor and as an instrument of warfare. Prerequisite, A.E. 111, 121, 141. Three credits. Kirsten.

### ANATOMY

#### Science Hall and Anatomy Laboratory

##### *Professor Worcester*

#### GROSS ANATOMY

**25.**—Service course for hospital students. Two credits; autumn or spring. Worcester.

**101, 102, 103. General Human Anatomy.**—Thorough study of the human body. Osteological collections are available. Especially for students taking the pre-medical, nurses', or physical education courses; open to others. Prerequisite, Zool. 1 and 7 or their equivalent. Lab. fee, \$3. Three or six credits a quarter; autumn, winter, spring. Worcester.

**104. Topographic Anatomy.**—Cross and sagittal sections for correlation. Prerequisites, Anat. 101, 102, and 103. Lab. fee, \$3. Four credits; autumn, winter, and spring. Worcester.

**108. Special Dissections.**—For physicians or students who have completed the above courses in gross anatomy. Lab. fee, \$3. Hours and credits to be arranged; autumn, winter, spring. Worcester.

#### MICROSCOPIC ANATOMY

**105, 106. Histology and Embryology.**—Microscopic anatomy of developing and adult mammals studied both in their fresh and fixed conditions. Especially for students in pre-medical and nurses' courses but open to others. Prerequisite, Zool. 1 and 7 or their equivalent. Lab. fee, \$3. Six credits a quarter; autumn and winter. Worcester.

**\*\*Will be offered if a sufficient number of students elect the course.**

107. *Neurology*.—Dissection of the human brain and cord and special organs of sense; comparative developmental history of the central nervous system; a microscopic study of the nuclei and fibre tracts. Prerequisites, Anat. 105 and 106 or their equivalents. Especially for pre-med students but open to others. Lab. fee, \$3. Six credits a quarter; spring. Worcester.

200. Graduate and research work in anatomy for those qualified. Credits and time arranged. Autumn, winter, spring. Worcester.

#### ANTHROPOLOGY

Education Hall

*Associate Professor Radin*

51. *Evolution of Civilizations*.—A general survey of human history: origin and development of arts and industries; race questions. Five credits; winter.

52. *Primitive Social Life*.—Five credits; spring.

101. *Basis of Civilization*.—Factors that determine the growth of civilizations, as illustrated by the North American Indians. Prerequisite, Anthro. 51 or instructor's permission. Five credits; spring.

\*110. *Peoples of Europe*.

111. *Peoples of the Pacific Area*.—Backgrounds for political and social studies in the Pacific. Ethnography and racial origin of native peoples; modern populational movements. Prerequisite, Anthro. 51 or 52. Three credits; spring.

\*141. *Folk Tales*.

\*143. *Origins of Art*.

163. *Racial History*.—Race classifications; growth of children; racial and social influences. Three credits; winter.

185. *Primitive Social and Political Institutions*.—Theories of development. Five credits; winter.

190, 191, 192. *Research*.—Instructor's permission necessary. Credits and hours to be arranged.

#### COURSES FOR GRADUATES ONLY

204, 205. *Anthropological Methods and Theories*.—Analysis of culture; historical and psychological methods; theories of culture growth. Three credits a quarter; winter, spring.

#### ARCHITECTURE

Architecture Building

*Professor Thomas, Associate Professor May; Assistant Professors Herrman, Gowen*

(Member of the Collegiate Schools of Architecture)

All students contemplating the study of architecture should confer with the head of the department as to their special qualifications and reasons

for entering the professional study of architecture. A student should have credits in plane geometry, algebra through quadratics, trigonometry, physics, and at least two years of foreign language. Forty hours of foreign language are required for graduation, twenty hours of which are provided in the curriculum. The romance languages, particularly French, should be chosen, though freedom of choice is allowed.

1-2. *Architectural Appreciation*.—Illustrated lectures giving an historic survey of domestic architecture. Exercises in drawing and simpler elements of buildings. Excursions to buildings and building supply companies. Two credits a quarter; autumn, winter. Herrman.

3. *Architectural Appreciation*.—General survey of important periods of architectural history studied, wherever possible, in terms of present day conditions. Two credits; spring. Herrman.

4-5-6. *Elements of Architectural Design*.—Problems in architectural drawing, such as walls, doors, windows, colonnades, and vaults. One hour lecture a week on the elements of architecture and library research. To be taken in connection with Arch. 7-8-9. Four credits a quarter; autumn, winter, spring. Herrman.

7-8-9. *Graphical Representation*.—Elementary principles of orthographic projections, geometrical determination of shades and shadows on architectural forms; and principles and methods of perspective as applied to architectural drawing. To be taken in connection with Arch. 4-5-6. One credit a quarter; autumn, winter, spring.

47-48. *Elementary Theory of Construction*.—Analysis of fundamental structural problems by application of the laws of equilibrium. Three credits a quarter; autumn, winter. May.

51-52-53. *History of Architecture*.—Technical study of the architecture of Egypt, Greece, Rome, Byzantium, the Romanesque and Gothic. Principles of historic design in terms of structural elements; theory of planning. Illustrated lectures and library research. Prerequisite, Arch. 3. Two credits a quarter; autumn, winter, spring. Thomas.

54-55-56. *Architectural Design, Grade I*.—Problems of design under individual criticism; order problems and simple problems of buildings. Work is done under the Society of Beaux Arts, New York, system and work is sent to New York for judgment in competition with work from the leading architectural schools of the country. (B.A.I.D., Class B, Analytique). Lab. fee, \$5. Prerequisite, Arch. 6. Three credits any quarter; autumn, winter, spring. Gowen.

60-61-62. *Working Drawings*.—Lectures on simple building construction methods. Drafting room practice in working drawings. Interpretation of rough sketches and design studies in terms of construction. Full size and large scale studies of detail. Inspection trips. Two credits a quarter; autumn, winter, spring. Thomas.

101-102-103. *History of Architecture*.—The Renaissance. Comparative study of the periods in European architecture. Illustrated lectures and library research. Prerequisite, Arch. 53. Two credits a quarter; autumn, winter, spring. Herrman.

104-105-106. *Architectural Design, Grade II*.—Advanced problems in design done under individual criticism. (B.A.I.D., Class B Projects). Lab. fee, \$5. Prerequisite, Arch. Design Grade I. Five credits any quarter; autumn, winter, spring. Herrman, Thomas.

**112-113. Freehand Drawing.**—Studies of cast of the human figure, charcoal, flat wash, and pencil. Lab. fee, \$1. Prerequisite, P.S.D. 7. Two credits a quarter; autumn, winter. Pratt.

**114. Freehand Drawing, Water Color.**—Still life studies, and outdoor sketching in water color; lab. fee, \$1. Prerequisite, P.S.D. 113. Two credits; spring. Pratt.

**116. Specifications and Office Practice.**—Specifications and all contract forms used by the architect; modern business methods, ethics and office organization. Two credits; spring. Thomas.

**117. Building Construction.**—General principles of structural design; girders, columns and roof trusses in timber and steel as applied by the architect. Prerequisite, C.E. 130. Three credits; winter. May.

**118. Building Construction.**—Principles of concrete design; slab, joists, tile and joist, columns, etc., as applied by the architect. Prerequisite, Arch. 117. Three credits; spring. May.

**151. History of Architecture.**—Modern architecture in America and Europe from the middle of the eighteenth century to the present time. Illustrated lectures, library research, class discussions and papers. Prerequisite, Arch. 103. Two credits; autumn. Gowen.

**152. Theory of Architecture.**—Theory of architectural design, relation of composition and scale, and planning. Class discussions and lectures. Prerequisite, Arch. Design, Grade II. Two credits; winter. Gowen.

**153. Architectural Materials.**—Properties of materials used in architectural construction and practice; steel, concrete, wood, plaster, paint, varnish, etc. Senior standing. Two credits; spring. Gowen.

**154-155. Architectural Design, Grade III.**—Advanced design under individual criticism. (B.A.I.D., Class A Projects). Lab. fee, \$5. Prerequisite, Arch. Design, Grade II. Seven credits a quarter; autumn or winter. Gowen.

**156. Thesis and Seminar.**—Architectural design problem with structural details and reports covering a complete architectural project. Individual criticism subject to program and requirements as determined by the faculty. One seminar class hour a week for discussions of projects and of topics of current interest to architects. Lab. fee, \$5. Prerequisite, Arch. Design Grade III. Eight credits; autumn, winter, spring. Gowen.

**157, 158, 159. Architectural Problems.**—Class A B.A.I.D. Problems and advanced local problems in design. Prerequisite, Arch. 156. Three to seven credits; any quarter. (The amount of credit given will be proportionate to the duration in weeks of the problems taken, with a maximum of seven credits and a minimum of three.) Fee \$7.50 for the academic year or any quarter of the academic year unless student has previously, the same academic year, registered for Arch. 156, in which case the amount of that fee will be deducted. Thomas, Gowen.

**160, 161. Pencil Sketching.**—Pencil sketches of architectural subjects—the first quarter from photograph, the second from actual subject. Criticism once a week on work done. Sketching to be done outside of class hours. Definite number of sketch points required for the course. One credit a quarter; autumn, spring.

**162-163 Modelling.**—Modelling of architectural subjects from program; work to be done outside of class hours or as arranged. Definite number of points required for the course. Senior standing. One credit; winter, spring.

# ASTRONOMY

## The Observatory

### Assistant Professor Zanstra

The work in astronomy is planned for (a) students who desire some knowledge of astronomy as part of a liberal education; (b) navigators and engineers who need some knowledge of the science as part of their technical equipment.

1. *General Astronomy*.—A descriptive, non-mathematical course, designed to give the student some idea of the solar system, the stars, and the place of the earth in the universe. Five credits; autumn, spring.

Zanstra.

\*53. *Practical Observing*.

# BACTERIOLOGY AND PATHOLOGY

## Science Hall

*Professor Weinzirl, Assistant Professor Hoffstadt, Lecturer G. A. Magnusson, Associate Ruth Swingle, and assistants.*

### COOPERATING LABORATORIES:

- A. W. Simpson, M.D., Director State Board of Health.
- F. C. West, M.D., Director Seattle Department of Health.
- E. D. Clark, Ph.D., Director National Cannery Association.
- W. E. Gibb, B.S., Director Virginia Mason Hospital.
- D. H. Nickson, M.D., Director Swedish Hospital.
- G. A. Magnusson, M.D., Director Physicians' Clinical.

The work in bacteriology provides training along the following lines: (a) As part of a liberal education; (b) as applied to medicine, nursing, pharmacy, fisheries, home economics, sanitary engineering, chemistry; (c) for the preparation of technicians and bacteriologists; (d) for advanced degrees.

101. *General Bacteriology*.—Technique in growing and examining bacteria, identification of species, common disease bacteria. Prerequisite, junior standing except for bacteriology majors. Knowledge of biology and general chemistry is desirable. Prerequisite for advanced degrees. Lab. fee, \$4. Five credits; autumn, spring, summer. Weinzirl and Hoffstadt.

102. *Sanitary Bacteriology*.—Water supplies and sewage disposal; meat, milk and other foods; certain industrial applications. Prerequisite, Bact. 101. Lab. fee, \$4. Five credits; winter. Weinzirl and Hoffstadt.

103. *Public Hygiene*.—Conservation of health; prevention of diseases; school hygiene; industrial hygiene, etc. Five credits; lectures only; spring. Lab. fee, \$1. Weinzirl.

104. *Serology*.—Types of immunity; immunization of animals and man; study of immune products. Prerequisite, Bact. 101. Lab. fee, \$5. Five credits; autumn. Hoffstadt.

105. *Infectious Diseases*.—Detailed study of the pathogenic bacteria, and methods of diagnosis of infectious diseases. Prerequisite, Bact. 101. Lab. fee, \$5. Five credits; winter. Hoffstadt.

106. *Clinical Diagnosis*.—Examination of blood, urine, gastric and in-

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\*Not offered in 1927-1928.

testinal contents, parasites, etc. Prerequisite, Bact. 101. Lab. fee, \$5. Five credits; spring. Magnusson and Hoffstadt.

110, 111, 112. *Pathology*.—Gross and microscopic study of inflammation, degeneration and tumors. Prerequisite, Anat. 105. Lab. fee, \$5. Five credits; autumn, winter, spring.

120, 121, 122. *Applied Bacteriology*.—By special arrangements the student may spend not less than five half days per week in state or city laboratories. Credit will depend upon a satisfactory statement from the director in charge of the laboratory. For bacteriology majors only. Five credits; autumn, winter, spring, summer. Weinziel.

126, 127. *Journal Club*.—No credit; autumn, winter. Hoffstadt.

#### COURSES FOR GRADUATES ONLY

204, 205, 206. *Advanced Bacteriology*.—Advanced work in definite fields on consultation. Entire group meets in weekly conference for reports. Five credits; autumn, winter, spring, summer. Weinziel.

207, 208, 209. *Seminar*.—Special topics. Credits to be arranged; autumn, winter, spring.

210, 211, 212. *Research*.—Investigation of assigned problems. Open to qualified students after consultation. Credits to be arranged; autumn, winter, spring, summer. Weinziel, and staff.

#### BOTANY

##### Science Hall

*Professor Frye; Associate Professor Rigg; Assistant Professor Hotson*

#### SUGGESTED SELECTIONS

For the required biological science in the Colleges of Liberal Arts and Science, only courses 1, 2, 3, 4, 105, 106, 107 will be accepted. Students in the College of Fine Arts desiring to satisfy the science requirement by taking botany may select from this list, or they may include 101. It is recommended that they include 101 where possible.

For a major: Courses 105, 106, 107, 140, 141, 142, 143, 144, 145 of which 105, 106, 107 are required.

For teaching botany: 105, 106, 107, Edu. 160A, Bot. 140, 141, 142, 143, 144, 145, are suggested.

For pharmacy students: 13, 14.

For forestry students: 11, 12, 111, 140, 141, 142.

For fisheries students: 53.

1. *Elementary Botany*.—Structure and functions of roots, stems, leaves and seeds. Lab. fee, \$2. Five credits; autumn and winter.

Rigg and assistants.

2. *Elementary Botany*.—Types of the great groups of plants from the highest to the lowest. Prerequisite, 1, Lab. fee, \$2. Five credits; winter.

Frye and assistants.

3. *Elementary Botany*.—Plant analysis; field work with local flora. Open to students entering without botany. Lab. fee, \$2. Five credits; spring. Offered in alternate years with Bot. 4.

Frye and assistants

4. *Ecology*.—A field study of plant communities with lectures on the



principles of ecology. Prerequisite, Bot. 1 or 3. Fee, \$2. Five credits; spring. Offered in 1927-28 and after that in alternate years with Bot. 3.

11, 12. *Foresters' Botany*.—Types of plants illustrating the advance in complexity. For forestry students. Lab. fee, \$2. Five credits a quarter; winter and spring. Rigg and assistants.  
Hotson and assistants.

13, 14. *Pharmacy Botany*.—Gross structure of vegetative and reproductive parts of seed plants, brief study of spore plants; microscopy of powdered drugs. Lab. fee, \$2. Five credits, winter; four credits, spring. Rigg and assistants.

53. *Aquatic Botany*.—Plants of fresh water habitats, especially those involved in the study of fishes and their culture. Lab. fee, \$2. Five credits; spring. Frye.

101. *Landscape Gardening*.—The plants used in beautifying lawns and houseyards, their propagation and use. Lab. fee, \$2. Five credits; spring. Registration limited to 20 students. Hotson.

105, 106, 107. *Morphology and Evolution*.—Morphological study of types to show advances in complexity. Required for all majors unless courses 11 and 12 are taken in the freshman year. Prerequisite, 10 hours botany, or Zool. 1 and 2. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Frye and assistants.

111. *Forest Pathology*.—Recognition and treatment of common wood destroying fungi. Prerequisite, Bot. 11 or 105. Lab. fee, \$2. Five credits; autumn. Hotson and assistant.

119. *Plant Histology*.—Preparation of slides for the microscope; a study of tissues. Prerequisite, Bot. 106. Lab. fee, \$3. Two to five credits; autumn. Frye.

120. *History of Botany*.—The great ideas from the dawn of history to date. Three credits; autumn. Frye.

140, 141, 142. *General Fungi*.—Morphology and classification of fungi as a basis for plant pathology. Prerequisite, Bot. 11 or 105, junior standing. Lab. fee, \$2. Five credits a quarter; autumn, winter, spring. Hotson.

143, 144, 145. *Plant Physiology*.—Prerequisite, three quarters of botany and Chem. 22. Desirable prerequisite, Chem. 133 and Physics 2. Lab. fee, \$3. Five credits a quarter; autumn, winter and spring. Rigg.

180, 181, 182. *Plant Pathology*.—Diseases of plants and the fungi which produce them. Prerequisite, Bot. 142. Lab. fee, \$2. Five credits a quarter; autumn, winter, spring. Hotson.

199. *Proseminar*.—Semi-independent work by students. Open only on consultation with the head of the department. Lab. fee, \$2. Two to five credits; any quarter. Frye, Rigg, Hotson.

*Teachers' Course in Botany*.—See Educ. 160A.

#### COURSES FOR GRADUATES ONLY

220. *Advanced Fungi*.—Prerequisite, Bot. 142. Lab. fee, \$2. Five credits; any quarter. Hotson.

233. *Research*.—Lab. fee, \$2. Two to five credits; any quarter. Frye, Rigg, Hotson.

247. *Diatoms*.—Prerequisite, Bot. 53 or 105. Lab. fee, \$2 Three credits; autumn. Frye.

250. *Algae*.—Prerequisite, Bot. 105. Lab. fee, \$2. Credits to be arranged; autumn, winter. Frye.

251. *Bryophytes*.—Prerequisite, Bot. 106. Lab. fee, \$2. Credits to be arranged; any quarter. Frye.

271, 272, 273. *Experimental Morphology*.—Prerequisites, Bot. 106, 145, one year chemistry. Lab. fee, \$2. Two credits a quarter; autumn winter, spring. Frye.

279. *Colloidal Biology*.—Prerequisites, Bot. 143, Chem. 132. Desirable prerequisite, Chem. 141 and 204. Lab. fee, \$2. Five credits; any quarter. Rigg.

280. *Micrometabolism*.—Prerequisites, Bot. 12 or 107, 145. Lab. fee, \$3. Five credits; any quarter. Rigg.

#### CERAMICS

Mines Hall

See Mining, Metallurgy and Ceramics.

#### CHEMISTRY AND CHEMICAL ENGINEERING

Bagley Hall

*Professors Benson, Johnson, Dehn, Smith, Tartar; Associate Professors Thompson, Lynn; Assistant Professors Beuschlein, Boynton, Powell; Instructor Sivertz; Associates Radford, Jackson.*

Instruction in this department is designed to satisfy, as far as possible, the requirements of students who desire to study chemistry as a means of culture and as a necessary complement of a liberal education; but as the subject is eminently practical, it is also the desire of those in charge to guide the student so that he may fit himself for work in lines in which chemistry has become an applied science.

#### REQUIREMENTS OF THE DEPARTMENT

Students wishing to specialize in chemistry may select one of the three courses: (1) the elective curriculum for those who want a general course in chemistry, leading to the degree of B.S. in the College of Science (see College of Science bulletin); (2) the suggested curriculum for those who intend to make use of chemistry as a vocation, leading to the degree of B.S. in Chemistry (see College of Science bulletin); (3) the prescribed curriculum in chemical engineering for those who plan to engage in manufacturing industries, leading to the degree of B.S. in Chemical Engineering (see College of Engineering bulletin). Courses 5, 6, 7, 8, 9, 10, 37, 38, and 39 may not be counted towards a major in the department.

The fee for each laboratory course is \$6.50 a quarter. This covers general laboratory expense such as gas, water and depreciation. For purchase of chemicals and apparatus, each student is required to buy a breakage ticket when he obtains his locker key. The cost of the tickets is \$5. Any unused portion will be refunded.

1-2. *General Inorganic Chemistry*.—Chemistry of the non-metallic elements. Open only to students not having had accredited high school chemistry. Three lectures and two laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Sivertz.

5-6. *General Chemistry*.—Open only to women in home economics, physical education liberal arts and fine arts. Three lectures and two laboratory periods a week. Five credits a quarter; winter, spring. Tartar.

7. *Nurses' Course*.—General chemistry for nurses. Three lectures. Two 3-hour laboratory periods. Five credits; autumn, spring. Benson.

8-9-10. *General Chemistry and Qualitative Analysis*.—Open only to pharmacy students. The work in the spring quarter is qualitative analysis. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Lynn.

21-22. *General Inorganic Chemistry*.—Chemistry of the non-metallic elements. Open only to students having accredited high school chemistry. Three lectures and two laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Sivertz.

23. *Elementary Qualitative Analysis*.—Prerequisite, Chem. 2 or 22, or equivalent. Three lectures and two laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Sivertz.

37-38-39. *Organic Pharmaceutical Chemistry*.—Organic chemicals of the U.S. Pharmacopoeia. Open only to pharmacy students. Prerequisite, Chem. 10 or its equivalent. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Johnson.

52. *Chemical Technology*.—Application of mathematics, physics, and chemistry to unit chemical operations. No fee. Prerequisites Chem. 23, Physics 1 or 97 and Math. 61. Three lectures. Three credits; spring. Beuschlein.

55. *Forest Products*.—Prerequisite, Chem. 2 or 22. Three credits; spring. Benson.

101. *Advanced Qualitative Analysis*.—Two lectures and three laboratory periods a week. Prerequisite, Chem. 23 or its equivalent. Five credits; autumn, spring. Thompson.

104. *Food Chemistry*.—For home economics students. Methods of analysis of various foods and federal and state laws studied. Two lectures and two laboratory periods a week. Four credits; spring. Boynton.

109. *Quantitative Analysis*.—Gravimetric analysis. Prerequisite, Chem. 23 or its equivalent. Two lectures and three laboratory periods a week. Five credits; autumn, winter. Thompson.

110. *Quantitative Analysis*.—Volumetric analysis. Two lectures and three laboratory periods a week. Prerequisite, Chem. 109. Five credits; winter, spring. Thompson.

111. *Quantitative Analysis*.—Gravimetric and volumetric methods for students not majoring in chemistry. Prerequisite, two quarters of chemistry. Two lectures and three laboratory periods a week. Five credits; autumn, winter, spring. Thompson.

121, 122, 123. *Industrial Chemistry*.—Autumn—fuel, gases, cements, refractories, iron, steel, and alloys; winter—processes for manufacture of acids, alkalies; spring—organic industrial chemistry, oils, fats, paints, rubber, cellulose products. Three lectures and two laboratory periods a week. Prerequisite, Chem. 52, 111 or equivalent. Five credits a quarter, autumn, winter, spring. Benson, Beuschlein.

128-129. *Organic Chemistry*.—For medical, chemical engineering and

technical students. Three lectures and two laboratory periods a week. Prerequisite, Chem. 22 or its equivalent. Five credits a quarter; winter, spring. Powell.

131, 132, 133. *Organic Chemistry*.—For major students in chemistry and for students in the College of Science. Three lectures and two laboratory periods a week. Prerequisite, Chem. 23 or its equivalent. Five credits; autumn, winter, spring. Dehn.

134. *Manufacture of Industrial Organic Chemicals*.—Manufacture of organic chemicals on a semi-commercial scale. Two laboratory periods a week. Two credits; autumn. Powell.

135-136. *Organic Chemistry*.—For home economics students. Only women are admitted. Three lectures and two laboratory periods a week. Prerequisite, Chem. 6, or its equivalent. Five credits a quarter; autumn, winter. Powell.

140-141. *Elementary Physical Chemistry*.—Descriptive, non-mathematical, for pre-medic and science students not majoring in chemistry. Chemistry majors may, with the instructor's permission, take this instead of 181-182. Two lectures and one laboratory period. Prerequisites, Chem. 111 or equivalent and ten hours of physics. Three credits a quarter; winter, spring. Sivertz.

144. *Physiological Chemistry*.—For fisheries and home economics students. Prerequisite, Chem. 129 or equivalent. Three lectures and two laboratory periods. Five credits; spring. Boynton.

#### ADVANCED UNDERGRADUATES AND GRADUATES

##### \*150. *Industrial Seminar*.

161-162. *Physiological Chemistry*.—For students of medicine, biology, bacteriology and nutrition. Deals with chemical constitution, reactions, and products of living material both plant and animal. Prerequisite, Chem. 111 and 131 or equivalent. Three lectures and two laboratory periods. Five credits; autumn, winter. Boynton.

163. *Physiological Chemistry*.—Study of normal and pathological blood and urine. For students of medicine, nurses, and clinical technicians. Prerequisites, Chem. 111 and 131 or equivalent. One lecture and two laboratory periods. Three credits; spring. Boynton.

164. *Chemistry of Plant and Animal Tissues*.—Application of physiological chemistry to the study of biology. Prerequisite, Chem. 111 or 110 and 129. One lecture and two laboratory periods. Three credits; winter. Boynton.

165. *Chemistry of Nutrition*.—Enzyme and chemical reactions involved in digestion and metabolism. Prerequisite, Chem. 111 or 110 and 129. Two lectures and one laboratory period. Three credits; autumn. Boynton.

166. *Biochemical Preparations*.—Preparations of special substances involving biochemical methods. Two to three credits; autumn, winter, spring. Boynton.

171, 172. *Chemical Engineering*.—Basic operations common to chemical industries. Laboratory studies of typical apparatus. Three recitations and two laboratory periods. Prerequisite, Chem. 52, 123. Five credits; autumn, winter. Benson, Beuschlein.

173. *Chemical Engineering*.—Continuation of Chem. 172. Three draw-

\*Not offered in 1927-1928.

ing periods a week. No fee. Prerequisites, Chem. 52, 123. Three credits; spring. Benson, Beuschlein.

176, 177, 178. *Chemical Engineering Thesis*.—Subject to the approval of the head of the department, the student selects a suitable topic for investigation, which will be directed by the instructor concerned. A conference hour must be arranged. Final report must comply with the regulations of the University library. One to five credits a quarter; autumn, winter, spring. Benson, Beuschlein.

181, 182, 183. *Physical and Theoretical Chemistry*.—Fundamental principles and theories of chemistry accompanied by physico-chemical measurements. Prerequisites one year (15 credits) college physics, and Chem. 110. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Tartar, Sivertz.

190, 191. *History of Chemistry*.—(Offered every other year, alternating with 205, 206, 207.) Lectures and assigned readings. No fee. Prerequisite, Chem. 129, 182. Two credits; autumn, winter. Smith.

*Teachers' Course in Chemistry*.—See Educ. 160B.

#### COURSES FOR GRADUATES ONLY

200. *Departmental Seminar*.—Required of all graduate students during residence. Assigned readings and reports on the chemical literature. No fee. One-half credit a quarter, maximum of two credits will be allowed to any student; autumn, winter. Thompson.

\*201, 202, 203. *Advanced Theoretical and Physical Chemistry*.—(Offered every other year, alternating with 204.)

204. *Chemistry of Colloids*.—(Offered every other year, alternating with 201, 202, 203.) Fundamental properties of substances in the colloid state. Surface phenomena such as surface tension and absorption. Three lectures. No fee. Three credits; autumn. Tartar.

\*205, 206, 207. *Inorganic Preparations*.—(Offered every other year, alternating with 190, 191.)

208, 209. *Advanced Quantitative Analysis*.—Special methods of analytical chemistry. Either quarter may be taken independently. Prerequisite, Chem. 111 or its equivalent. One lecture and two laboratory periods. Three credits; autumn, winter. Thompson.

210, 211, 212. *Organic Preparations*.—Preparation of special substances involving representative laboratory methods. Any quarter may be taken independently. Credits and laboratory periods to be arranged. \$1 per credit hour. Autumn, winter, spring. Dehn.

\*219. *Advanced Chemical Engineering*.

221, 222, 223. *Advanced Inorganic Chemistry*.—Periodic system of the elements. Two quarters devoted to the elements and their ordinary compounds, and one quarter to the chemistry of the higher order compounds. Recommended for all majors and graduate students. No fee. Three credits a quarter; autumn, winter, spring. Smith.

230. *Organic Analysis*.—Special methods used in the analysis of organic substances. Prerequisite, Chem. 133 and 110. Laboratory periods to be arranged. Three or six credits; \$1.00 per credit hr; autumn, winter. Thompson.

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\*Not offered in 1927-1928.

231, 232, 233. *Advanced Organic*.—Detailed study of special fields of organic chemistry. Any quarter may be taken independently. Prerequisite, Chem. 129 or equivalent. No fee. Three lectures. Three credits a quarter; autumn, winter, spring. Dehn.

249. *Graduate Seminar*.—Assigned readings and reports dealing with special topics. Offered as desired by members of the different divisions of the department. Hours and credit to be arranged. No fee. Autumn, winter, spring. Staff.

250. *Research*.—The work in research is of three types: (1) Special investigations by advanced students under direction of members of the staff; (2) Research for the master's degree. Maximum credit nine hours. (3) Research for the doctor's degree under direction of any member of the senior staff of the department. Maximum credit forty-five hours. \$1.00 per credit hr. Staff.

## CIVIL ENGINEERING

### Mines Hall

*Professors More, \_\_\_\_\_, Harris; Associate Professor May; Assistant Professors Collier, Wilcox, Hamilton.*

4. *Topographic Surveys*.—Field and office collection of information and platting of field notes for topographic surveys. For geology students. Lab. fee, \$2. Three credits; spring. Hamilton.

22. *Transportation Surveying*.—Field and office methods used in surveying for railroads, highways and canals. Curves, grades, and earth work. Prerequisite, G.E. 21. Mining engineer. Lab. fee, \$2. Three credits; winter. Hamilton.

27. *Mine Surveying*.—Study of special methods used in underground surveying. Observation for meridian; mining claim survey and topography. Prerequisite, G.E. 21, mining engineers. Lab. fee, \$2. Three credits; winter. Hamilton.

55. *Forest Surveying*.—Practice with chain, compass and level. Use of bearings and distances in mapping. For forestry students. Lab. fee, \$2. Two credits; winter. Hamilton.

56. *Forest Surveying*.—Plane surveying with reference to work in forestry. Orientation. Prerequisite, C.E. 55. Lab. fee, \$2. Five credits; spring. Hamilton.

71. *Quantity Surveys*.—Elementary railroad surveying and topography. Taking off quantities from plans preliminary to cost estimates. Prerequisites, G.E. 12, 13. One credit; winter. More.

75. *Civil Engineering Drawing*.—Prerequisites, G.E. 12, 13. One credit; spring. More.

91, 92, 93. *Mechanics*.—For civil engineers. Applications of elementary principles of statics, dynamics, and mechanics of materials. Prerequisite, G.E. 12 and 13. Three credits a quarter; autumn, winter, spring. More.

106. *Sanitation and Plumbing*.—For architects. Two credits; winter.

113. *Elementary Geodetic Surveying*.—Meridian observations, triangulation and base line measurements, plane table surveying. Prerequisite, G.E. 21. Lab. fee, \$2. Three credits; autumn. Collier.

114. *Field Engineering*.—Field and office practice in the survey of highways, railroads, canals, etc. Prerequisites, G.E. 21 and C.E. 22. Lab fee, \$2. Four credits; spring. Collier.

115. *Railway Economics*.—Economic theory of railway location, operation and maintenance. Prerequisite, C.E. 114. Three credits; spring.

122. *Highways*.—Location and construction of standard types, with application to local conditions. Prerequisite, C.E. 22. Three credits; winter.

126. *Roads and Pavements*.—Materials, construction and maintenance. Laboratory study of materials used in pavement. Prerequisite, C.E. 122. Lab. fee, \$2. Five credits; autumn.

130. *Theory of Building Construction*.—For architects. Three credits; autumn. May.

131. *Mechanics*.—Algebraic and graphic applications of the fundamental principles of mechanics. Prerequisites, G.E. 13, Physics 97 and Math. 62. Three credits; autumn, winter, or spring. Miller.

132. *Mechanics*.—Continuation of C.E. 131. Prerequisite, C.E. 131. Three credits; autumn, winter, or spring. Miller.

133. *Mechanics*.—Mechanics of Materials. Elementary structural design. Prerequisite, C.E. 132. Three credits; autumn, winter, or spring. Miller.

134. *Framed Structures*.—Application of mechanics to analysis of structural details and simple framed structures. Prerequisite, C.E. 93. Three credits; autumn. More.

135. *Advanced Mechanics*.—General theories of flexure. Problems in statically indeterminate structures. Senior and graduate engineers. Prerequisite, C.E. 93. Three credits; winter. More.

139. *Reinforced Concrete*.—Fundamental principles of reinforced concrete. Prerequisite, C.E. 134. Three credits; autumn. More.

142. *Hydraulics*.—Flow of water through pipes, orifices, over weirs, and in open channels; energy and reaction of jets with application to impulse wheels; review of hydrostatics. Prerequisites, C.E. 131 or Math. 62, Physics 97 and C.E. 93. Lab. fee, \$2. Five credits; autumn, winter, spring. Harris, Hamilton, Wilcox.

143. *Hydraulic Problems*.—Complete problems presenting hydraulic engineering. Prerequisite, C.E. 142. Three credits; winter. Harris.

145. *Hydraulic Machinery*.—Development and theory of water wheels and turbine pumps; design of a reaction turbine; hydrostatic machinery and dredging equipment. Prerequisite, C.E. 142. Three credits; spring. Harris.

147. *Hydraulic Power*.—Investigations for power development; generation of power; types of installations. Prerequisite, C.E. 142. Senior and graduate engineers. Five credits; autumn. Harris.

153. *Water Supply*.—Practical engineering operations necessary to secure suitable water supplies for cities, towns and industrial plants. Prerequisite, C.E. 142. Three credits; spring.

154. *Sewerage and Drainage*.—Design and construction of sewerage and drainage systems for cities and towns. Senior and graduate C.E. Prerequisite, C.E. 142. Three credits; autumn.

155. *Water Supply Problems*.—Method used in obtaining a suitable

supply; purification of water. Senior and graduate C.E. and Ch.E. Prerequisite, C.E. 142. Three credits; winter.

157. *Irrigation Engineering*.—Investigation regarding duty of water and methods of obtaining it for irrigation purposes. Design and construction of irrigation works. Prerequisite, C.E. 142. Three credits; winter.

158. *Sewage Treatment*.—Supplementary to C.E. 154, especially relating to public health; sewage disposal; garbage collection and destruction. Senior and graduate C.E. and Ch.E. Three credits; spring.

160. *Building Construction*.—Building design and construction problems. Prerequisite, C.E. 134. Three credits; spring. More.

161. *Structural Design*.—Relation of theory of structures to engineering practice. Special application to roof and bridge trusses. Prerequisite, C.E. 134. Three credits; winter. More.

164. *Advanced Structural Design*.—Reinforced concrete arches, statically indeterminate truss design. Prerequisite, C.E. 161 and 135. Five credits; spring. More.

167. *Materials of Construction*.—Properties of materials used in engineering construction, timber, concrete, steel, etc. Prerequisite, C. E. 93. Lab. fee, \$2. Five credits; autumn. Collier.

169. *Engineering Relations*.—Construction and operation of projects. Engineering business relations. Prerequisite, senior standing. Five credits; spring. May.

192, 194, 196. *Research*.—Senior standing. By permission only. Time to be arranged. Two to five credits; autumn, winter, spring. Staff.

198. *Thesis*.—Three to six credits; autumn, winter, spring. Staff.

210, 212, 214. *Research*.—For graduates. Time to be arranged. Two to five credits; autumn, winter, spring. Staff

#### CLASSICAL LANGUAGES AND LITERATURE

Denny Hall

*Professors Thomson, Sidey; Associate Professor Stone; Assistant Professors Densmore, Read; Instructor Ware; Associate Ballaine.*

Requirements for a major: at least 36 hours in the department, chosen from courses other than Greek 8-9-10, 11, 13, 14, 15-16; Latin 1-2-3, 4, 5, 6, 11, 14-15-16. At least fifty per cent of the hours in the major must be in upper division courses. A student specializing in Greek must take at least nine hours of Latin; one specializing in Latin must take at least ten hours of Greek. At the conclusion of the senior year all major students must take the senior examination.

#### I. GREEK

1 (2,3) 2 (3,1) 3 (1,2). *Elementary Greek*.—Translation from a wide range of Greek authors. An especial effort will be made to give students who take but one year of Greek an appreciation of its spirit and its bearing on the English language. A maximum of five credits a quarter, beginning any quarter. Densmore.

4. *The Persian War Period*.—Wide readings in Herodotus. Prerequisite, Greek 3. Three credits; autumn. Densmore.

5, 6. *The World of Homer*.—Readings from the story of Achilles and the wanderings of Odysseus on a background of a general study of the his-



tory of the period down to Hesiod. Prerequisite, Greek 4. Three credits; winter, spring. Densmore.

8-9-10. *Greek Art*.—Autumn, architecture; winter, sculpture; spring, painting, numismatics and the minor arts. Alternates with Roman Art. One credit a quarter; autumn, winter, spring. Sidey.

11. *Greek Civilization*.—Institutional and cultural survey of the Greek world from the earliest times to the Roman conquest. Illustrated lectures, conferences and discussions. Knowledge of Greek not required. Upper division students may earn upper division credit by special work under the direction of the instructor. Five credits; spring. Densmore.

\*12. *Advanced Greek Civilization*.

13. *Greek Literature*.—The masterpieces in English translations. Knowledge of Greek not required. Five credits; autumn, winter, spring. Sidey

15-16. *Greek Civilization and Literature*.—Duplication of Greek 11, but including the literature in translation as a fundamental expression of the Greek genius. Knowledge of Greek not required. Open to freshmen only. Five credits a quarter; autumn and winter. Densmore.

101, 102, 103. *The Periclean Age*.—Greek civilization from the founding of the Delian Confederacy to the death of Socrates. Readings, conferences, and reports. Prerequisite, Greek 5 or equivalent. Three credits a quarter; autumn, winter, spring. Densmore.

104, 105, 106. *Greek Poetry*.—Lyric poetry, tragedy, and pastoral poetry. Prerequisite, Greek 5 or equivalent. Two credits a quarter; autumn, winter, spring. Densmore.

151, 152, 153. *Plato*.—Intensive study of the Republic, the Laws (in part) and some of the shorter dialogues. Prerequisite, Greek 101, 102, 103. Three to five credits a quarter; autumn, winter, spring. Densmore.

\*191, 192, 193. *Literary Criticism in Connection with Sophocles*.

II. LATIN

1-2-3. *Elementary Latin*.—First and second year high school Latin. For those who previously have had little or no Latin, and wish to bring their preparation up to college requirements. Given if any considerable number desire it. Five credits a quarter; autumn, winter, spring. Ware.

4, 5, 6. *Cicero or Virgil*.—Prerequisite, two years high school Latin or Latin 1- 2- 3 in the University. May be substituted for the requirement in ancient language, life and literature. Qualifies a student for Latin 21. Review of grammar and syntax. Selections from Cicero or Vergil. Five credits a quarter; autumn, winter, spring. Read.

11. *Roman Civilization*.—The part played in history by the Romans; their contributions to modern civilizations. Lectures, illustrated, when possible; collateral reading and reports. No knowledge of Latin required. Five credits; autumn (open to entering freshmen only); winter (open to all); spring (open to all). Stone.

13. *Roman Literature*.—The masterpieces in English translations. Knowledge of Latin not required. Five credits; autumn, winter, spring.

\*14-15-16. *Roman Art*.

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\*Not offered in 1927-1928.

21. *Cicero: De Senectute; Latin Literature (Mackail).*—Comparison of Cicero's work with similar essays. Exercises in grammar and composition. Prerequisite, three and one-half years of high school Latin. Five credits; autumn. Stone.

22. *Catullus, Latin Literature (Mackail).*

\*23. *Vergil: Georgics and Bucolics; Latin Literature (Mackail).*

24. *Sallust: Catiline and Jugurtha; Latin Literature (Mackail).*—Prerequisite, three and a half years of high school Latin. Three or five credits; winter. Stone.

25. *Ovid.*—Selections, chiefly from the *Metamorphoses*, with some study of the same myths as they appear in English literature: *Latin Literature (Mackail)*. Prerequisite, three and a half years of high school Latin. Five credits; spring. Stone.

100. *Livy.*—One book and selections from the other books. Prerequisite, Latin 21, 22, 23, or special permission. Five credits; autumn. Sidey

101. *Horace.*—Selections from the complete works. Prerequisite, Latin 21, 22, 23, or special permission. Five credits; winter. Sidey.

102. *Tacitus: Agricola Martial; Epigrams. (Selections.)*—Prerequisite, Latin 21, 22, 23, or special permission. Five credits; spring. Sidey.

\*103. *Plautus and Terence.—Selected Plays.*

106. *Syntax and Prose Composition.*—Prerequisite, Latin 50 or 60 or 71. Three credits; autumn. Sidey.

\*107. *The Age of Cicero.*

108. *Vergil's Aeneid.*—Books VII.-XII. Prerequisite, Latin 100, or 101, or 102, or 103. Three credits; winter. Stone.

109. *Pliny's Letters; Tacitus, Germania.*—A reading course. Prerequisite, Latin 101, or 102, or 103. Three credits; spring. Stone.

\*113. *Roman Home Life and Religion.*

\*151. *Cicero: Tusculan Disputations and Seneca: Moralia.*

\*152. *Quintilian: Book X and Horace: Ars Poetica.*

153. *Christian Latin.*—Selections from Minucius Felix, Augustine Lactantius and other early Christian writers. Open to graduates and advanced undergraduates. Two to five credits; autumn. Sidey.

154. *Latin Epistolary Literature.*—Open to graduates and advanced undergraduates. Two to five credits; winter. Sidey.

155. *Cicero: De Oratore or Orator and Pro Plancio.*—A discussion of Cicero's conception of the art of oratory and some reference to his influence in modern times. Sidey.

185, 186. *Vulgar Latin.*—Vocabulary and syntax; relation to archaic Latin, literary Latin and, especially, to the Romanic languages. Prerequisite, at least four quarters of college Latin and three years (or six quarters) of either French or Spanish or Italian. Three to five credits each quarter; winter, spring. Stone.

*Teachers' Course in Latin.*—See Educ. 160C.

\*Not offered in 1927-1928.

## COMPARATIVE PHILOLOGY

The following courses in Comparative Philology are available in the department of Scandinavian Languages and Literature:

190-191. *Introduction to the Science of Language*.—Two credits; autumn and winter. Vickner.

192. *Life of Words*.—Two credits; spring.

## DRAMATIC ART

Denny Hall

Assistant Professors Lovejoy, Hughes, Associates James, Crawford, Blanchard

The work in this department is planned for two classes of students: (a) those who desire knowledge of dramatic art as part of a liberal education; (b) those who need knowledge of dramatic art as part of their technical training.

For a major the department requires 73 to 87 credits in dramatic art. Two degrees are offered: (1) Bachelor of Arts in Dramatic Art; (2) Bachelor of Fine Arts with a Major in Dramatic Art.

All courses in the department, with the exception of 101-102-103, and 107-108, may be entered at the beginning of the first, second or third quarters.

5. *Phonetics, Elementary Course*.—The sounds of spoken English analyzed as a basis for correcting racial, regional, class and individual defects. Articulation, pronunciation and ear training practice. Use of phonetic-dictionary, cultivation of the speaking voice. Five credits; autumn, winter, spring. Crawford.

9, 10. *Theater Backgrounds*.—A general introduction to the study of the modern theater and drama. Two credits; autumn, winter. Lovejoy.

61, 62, 63. *Dramatic Interpretation*.—Selected plays are used as exercises in dramatic delivery and for the study of effectiveness in the reading of lines. Five credits a quarter; autumn, winter, spring.

Lovejoy, Blanchard.

101-102-103 *Play-acting*.—Practical course in the art of acting. Interpretation of standard and original plays. One lecture and two 2-hour laboratory periods a week. Prerequisite, Dram. Art. 5. Fee, \$1 Three credits a quarter; autumn, winter, spring. Lovejoy.

104, 105, 106. *Theatre Workshop*.—Construction of model and actual stage settings, properties, costumes, masks, stage lighting; general mechanics of the theatre. Two hours lecture, and four hours laboratory. Lab. fee, \$2. Four credits a quarter; autumn, winter, spring. James.

107-108. *Advanced Phonetics*.—A continuation of D.A. 5. Study of intonation. The oral study of literature. Mastery of foreign sounds. The purpose of this course is to make good speech natural and spontaneous in reading, speaking and acting. Prerequisite, Dram. Art 5. Five credits a quarter; winter, spring. Crawford.

111, 112, 113. *Play-writing*.—Principles of dramatic composition, with experimental creative work. Five credits a quarter; autumn, winter, spring. (May receive credit in English.) Hughes.

127. *The History of Theatre Art*.—Origin and development of theatre art. Physical structure of playhouses. Evolution of stage machinery and settings. Masks, marionettes. Realism, symbolism. Lectures and required readings. Five credits; autumn. (May receive credit in English). Hughes.

\*131, \*132, 133. *Staging of Shakespeare*.—Designed to give the student a working knowledge of Shakespearean production. One play will be studied each quarter and entire plan of production covered. Cutting, interpretation, stage business, costuming, properties and scenery. Three credits; spring. Lovejoy.

151, 152, 153. *Representative Plays*.—Origin and development of the drama. Representative plays of all important periods and countries are studied and discussed. Three credits a quarter; autumn, winter, spring. (May receive credit in English.) Hughes.

*Teachers' Course in Dramatic Art*.—See Educ. 160L.

#### OTHER COURSES WHICH MAY RECEIVE CREDIT IN DRAMATIC ART

English 40.—*Essentials of Speaking*.—Five credits; autumn, winter, spring. Breland.

English 41.—*Advanced Speaking*.—Three credits; winter, spring. Breland.

#### ECONOMICS AND BUSINESS ADMINISTRATION

##### Commerce Hall

Professors Cox, Ayer, Gould, Preston, Dakan, Coon, Frame, Burd; Associate Professors Eldred, Smith, Skinner, Leib, McMahon; Assistant Professors Gregory, McIntyre; Lecturers McConahey, Robertson, Davis, Draper, Truax; Instructors Van de Walker, Hamack, Miller; Assistant Grant.

Those students in liberal arts or business administration choosing economics as their major, should consult with the head of the department or the professor in charge of advanced economics with regard to a proper selection of courses. The following courses may be regarded as available for such students: 1, 2, 60, 61, 103, 104, 106, 108, 121, 122, 159, 160, 161, 162, 164, 165, 166, 168, 171, 181, 201, 205, 207.

*B.A. 1 and 2 are absolutely prerequisite for all B.A. courses except with the permission of the dean.*

1, 2. *General Economics*.—General principles of economics. Fee, \$50. Five credits; autumn, winter, spring. Cox, Preston, Smith.

3. *General Economics*.—Same as B.A. 1 above, abbreviated for students in chemistry, pharmacy, forestry, fisheries and engineering. Fee, \$50. Three credits; spring. Skinner.

7. *Geographic Backgrounds of Industry*.—The world's principal agricultural and mineral resources; geographical distribution and development; governmental policies of conservation; world commerce, trade routes. Fee, \$50. Five credits; autumn, winter, spring. (B.A. 1 not prerequisite). Miller.

15. *Typewriting. I*.—Fundamental principles of typewriting. Fee, \$10. No credit; autumn, winter, spring. Hamack, Ford.

16. *Typewriting. II*.—Devoted to increasing the speed of the student on the typewriter. Fee, \$10. No credit; autumn, winter, spring. Swift, Hamack, Ford.

\* Not offered 1927-28.

18. *Shorthand I.*—Fundamental principles of shorthand in the first twelve lessons of the manual. Fee, \$10. No credit; autumn, winter.

Hamack, Swift.

19. *Shorthand II.*—Advanced shorthand. prerequisite, B.A. 18. Fee, \$10. No credit; winter, spring.

Hamack.

49. *Ship Operation.*—Types of vessels, with reference to materials and methods of construction, stress and stability of hulls, methods of propulsion, measurement and stowage of cargo. Fee, \$.50. Five credits; autumn, winter. (B.A. 1 not prerequisite).

Gould.

52. *Navigation.*—Correction of courses; the sailings, dead reckoning, piloting, latitude, longitude, azimuth, amplitude, determinations of position at sea by methods of Marc Saint Hilaire and Aquino; compass adjusting. Fee, \$.50. Five credits; winter. (B.A. 1 not prerequisite.)

Gould.

54. *Business Law.*—General introduction to municipal law, including jurisdiction of courts, pleading and procedure, etc., preparatory to reading of cases. Primary consideration is given in this and B.A. 55 and B.A. 56 to the law of contracts and sales of personal property, with incidental treatment of such subjects as damages, remedies, negotiation, business associations, etc., developed in discussion from an analysis of cases and problems. The course is designed to train the student in the analysis and solution of legal problems in ordinary business relations. Prerequisite, sophomore standing. Fee, \$.50. Three credits; autumn.

Ayer.

55. *Business Law.*—Continuation of B.A. 54 as outlined. Prerequisite, B.A. 54. Fee, \$.50. Three credits; winter.

Ayer.

56. *Business Law.*—Continuation of B.A. 54 and B.A. 55, but may be taken with prerequisite of B.A. 54 only. Fee, \$.50. Three credits; spring.

Ayer.

59. *Graphic and Tabular Analysis of Business Problems.*—Application of statistical method to business and economic problems. Design and execution of diagrams, maps and tables for effective presentation of statistical results. Analysis of collected material. Prerequisite, Math. 13 or its equivalent at option of instructor. Fee, \$.50. Five credits; autumn, winter, spring.

Leib.

60. *Labor in Industry.*—An historical survey of labor problems arising out of changing industrial conditions. Methods used by industrial and social agencies in meeting these problems. Fee, \$.50. Five credits; autumn, spring.

McMahon.

61. *Social and Economic Standards of Living.*—Their origin and development; class standards and their influence on industry. A comparative study of budgets. Fee, \$.50. Five credits; winter.

McMahon.

62. *Principles of Accounting.*—Functions of accounts; trial balances; balance sheets; profit and loss statements; books of original entry; ledgers; business forms and papers. Fee, \$.50. Five credits; autumn, winter, spring.

Draper, Van de Walker.

63. *Principles of Accounting.*—Accounts peculiar to partnerships and corporations; correct classification of accounts; manufacturing and cost accounts; controlling accounts and subsidiary ledgers; voucher systems. Prerequisite, B.A. 62. Fee, \$.50. Five credits; autumn, winter, spring.

Draper, Van de Walker.

64. *Principles of Accounting.*—Accounting analysis and control; construction and interpretation of accounting standards and measures; analysis of financial statements from management standpoint; problems in report writing. Prerequisite, B.A. 63. Fee, \$.50. Five credits; autumn, winter, spring.

Gregory Van de Walker.

65. *Accounting Survey*.—An elementary survey of the construction and interpretation of accounts; a service course designed solely for students in other colleges who have only one quarter available for accounting; not open to Business Administration students. Fee, \$.50. Five credits; winter.

Van de Walker.

67. *Paper Work in Shipping*.—Forms used in documentation, entering and clearing, and in making coastwise and foreign shipments, with the solution of a number of practice problems. Fee, \$.50. Five credits; autumn, spring.

Gould.

81-82. *Secretarial Training I. and II.*—For students who have a thorough knowledge of shorthand and typewriting, covering the responsibilities placed on the secretary in handling correspondence, letter writing. Prerequisites, B.A. 16 and 19. Fee, \$.5. Five credits; autumn, winter.

Hamack.

83. *Office Training and Practice*.—General principles of business conduct, ethics of the office, shipping, filing systems, and general handling of work to be assigned as nearly like actual office work as possible. Prerequisites, B.A. 81-82. Fee, \$.5. Three credits; spring.

Hamack.

102. *Office Management*.—The office manager's problems of office administration. Attacks the problem of office control by the various activities and studies each in relation to all the others. Fee, \$.50. Five credits; winter.

Draper.

103. *Money and Banking*.—Introductory course. Functions of money; standards of value; financial conditions, and principles of banking with special reference to the banking system of the United States. Fee, \$.50. Five credits; autumn, winter, spring.

Preston.

104. *Economics of Transportation*.—Relation of transportation to industry and society; development and present status of American transportation systems; organization of the service; traffic associations; classification territories; routes; traffic agreements; rates and regulations. Fee, \$.50. Five credits; autumn.

Frame.

105. *Business Organization*.—Business corporations; associations, combinations; special reference to their functions, operation, advantages and disadvantages, relation to the anti-trust laws. Fee, \$.50. Five credits; autumn.

Dakan.

106. *The Economics of Marketing and Advertising*.—Development of economic principles in marketing and advertising and their application to present day problems in those fields. Fee, \$.50. Five credits; autumn, spring.

Burd.

107. *Traffic Management*.—A study of the traffic problems of American railroads, including classifications, the rate structures of the chief rate-making territories and such matters as import and export rates, reconsignment and diversion, demurrage and claims. Fee, \$.50. Five credits; winter.

Frame.

108. *Risk and Risk Bearing*.—The risk factor in its economic and social consequences; ways of meeting risk; the general broad outline of life, fire and other insurance. Fee, \$.50. Five credits; winter, spring.

Smith.

110. *Advanced Accounting*.—Valuation of balance sheet and revenue statement items; surplus and reserves; dividends; sinking funds; liquidation of partnerships and corporations; consolidated balance sheets; reports of trustees and receivers. Prerequisite, B.A. 64. Fee, \$.50. Five credits; autumn, winter, spring.

Draper, Van de Walker.

111. *Advanced Accounting*.—Advanced partnership and corporation accounting; nature of profits; dividends; the legal status of same; statement

of affairs; realization and liquidation accounts. Fee, \$.50. Prerequisite, B.A. 110. Five credits; autumn, winter, spring. Draper.

112. *Advanced Accounting*.—Bond and stock issue problems; premiums and discounts on securities; funds and reserves; mergers and consolidations; graphs and comparative statements; estate accounting. Prerequisites, B.A. 111. Fee, \$.50. Five credits; autumn, winter, spring. Gregory.

113. *Ports and Terminals*.—Factors of a well coordinated port; modern terminal facilities; representative river, lake and sea ports. Fee, \$.50. Three credits; winter. Frame.

115. *Business Correspondence*.—Business letters; analysis of principles; development of judgment on points of business policy. Prerequisites, English 1 and junior standing. Fee, \$.50. Five credits; autumn, winter, spring. Miller.

117. *Exporting and Importing*.—Technique of exporting and importing; analysis of markets; preparation of documents and calculation of values of staples and of manufactured products and the financing of shippers. Prerequisite, B.A. 7. Fee, \$.50. Five credits; autumn. Skinner.

119. *Water Transportation*.—Economics of shipping with particular reference to organization and management; ship building and operating costs; rate practice and control, pools, agreements, conferences; ocean routes; shipping subsidies, etc. Fee, \$.50. Five credits; spring. Frame.

121. *Corporation Finance*.—Financial problems connected with promotion of corporations, underwriting and sale of securities, management, expansion and reorganization of unsuccessful corporations. Prerequisites, B. A. 62, 103. Fee, \$.50. Five credits; winter.

122. *Principles of Investment*.—A study of the underlying principles of investment credit; and a description of the origin and purpose of the various credit instruments used; the selection of sound investments; the investment policy of individuals and institutions; care of investments; investment market and its relation to the money market. Prerequisite, B.A. 103. Fee, \$.50. Five credits; spring. Dakan.

124. *Public Finance*.—Public expenditures, revenues, debts and financial administration, with particular attention given to taxation. Fee, \$.50. Five credits; autumn. Eldred.

125. *Bank Administration*.—Methods and machinery of bank operations. Internal organization of the bank; relation of the different functions; accounting methods; finding costs for the bank; problems of bank administration. Prerequisites, B.A. 63, 103. Fee, \$.50. Five credits; winter. Dakan.

126. *Commercial Credit*.—Extension of credit; the credit department; sources of information; credit analysis; credit insurance; practical problems. Prerequisite, B.A. 64, 103. Fee, \$.50. Five credits; autumn. Dakan.

127. *Foreign Exchange and International Banking*.—Theory of international exchange; rates of exchange; financing imports and exports; specie movements; foreign money market factors; foreign banking by American institutions; financing foreign trade; present status of foreign exchange. Prerequisite, B.A. 103. Fee, \$.50. Five credits; autumn. Preston.

130. *Industrial Analysis and Control*.—Using cost statistics and reports as material, will deal with the development of policies for greater efficiency in management. Systems of accounting statistics with emphasis on manufacturing, selling, general administration and financial expenses with their significant ratios considered. Fee, \$1. Five credits; autumn and winter. McIntyre.

*\*131. Advanced Industrial Analysis and Control.*

*134. Market Organization.*—Survey of market processes and systems; purchasers' buying habits and producers' distribution channels; the middlemen and their functions; the retail outlets. Prerequisite, 106. Fee, \$.50. Five credits; autumn. Burd.

*135. Marketing of Food Products.*—The economic and commercial problems involved in the distribution of foodstuffs from producer to consumer, both in raw material and as processed or manufactured commodities. Remedies of weakness in prevailing methods of marketing. Prerequisite, 106. Fee, \$.50. Five credits; autumn. Eldred.

*136. Market Analysis.*—Product analysis; price policies and sales strategy; sales promotion methods. Prerequisite, B.A. 106. Fee, \$.50. Five credits; winter. Burd.

*137. Advertising Campaigns.*—Advertising appeals and their presentation; advertising media and their selection; appropriations; campaign plans. Prerequisite, B.A. 106. Fee, \$.50. Five credits; spring. Burd.

*138. Sales Management.*—Sales plans; establishing sales policies; constructing sales machinery; supervising sales forces. Prerequisite, 106. Fee, \$.50. Five credits; winter. Burd.

*\*139. Social Insurance.*

*140. Cooperative Marketing.*—An examination of the more successful cooperative marketing ventures in the United States with a view to developing from their experience the principles upon which the cooperative marketing must be based. Prerequisite, B.A. 106, or equivalent. Fee, \$.50. Five credits; winter. Eldred.

*\*141. Fire Insurance.*

*\*142. Life Insurance.*

*143. Trade of Far and Near East.*—Resources and trade of China, Japan, Siberia, the Philippines, French Indo-China, Siam, India, the Malay Peninsula, the Dutch East Indies, Australia, Persia, Mesopotamia, Syria, Arabia, Turkey and the Balkan States. Prerequisite, B.A. 7. Fee, \$.50. Five credits; winter. Skinner.

*144. Trade of Europe.*—Resources of Europe and Africa, and the trade relations of these sections with the rest of the world, especially the United States. Prerequisite, B.A. 7. Fee, \$.50. Five credits; winter. Skinner.

*145. Trade of the Americas.*—Resources and trade of Mexico and the Central American and South American countries. Prerequisite, B.A. 7. Fee, \$.50. Five credits; spring. Skinner.

*146. Retail Sales Problems.*—Fundamental principles underlying retail selling. Problems of constructive merchandising, display, advertising, personnel, and the consumer from the point of view of the sales manager and the selling force. Prerequisite, B.A. 106. Fee, \$.50. Five credits; autumn. Grant.

*147. Retail Buying Problems.*—The scientific and ethical principles underlying retail buying. Problems of the buyer in relation to customer demand, market, stock control, technique of buying, sales force, sales promotion, net profit. Prerequisite, B.A. 106. Fee, \$.50. Five credits; winter. Grant.

*148. Retail Store Organization Problems.*—Fundamental principles underlying departmentalization; financial, personnel, merchandising, publicity

\* Not offered in 1927-1928.



and administrative organization. Prerequisite, B.A. 106. Fee, \$.50. Five credits; spring. Grant.

149. *Marine Insurance*.—History, principles and practice of marine insurance as applied to ships, freight and cargo. Prerequisite, B.A. 108. Fee, \$.50. Five credits; autumn. Smith.

150. *Railroad Finance and Administration*.—A study of the methods by which railroads are financed and administered; comparison with foreign systems; analysis of annual reports of leading systems; survey of railroad legislation. Prerequisites, B.A. 64, 103, 104. Fee, \$.50. Five credits; spring. Frame.

151. *Rail and Marine Rates*.—Principles of rate making, and interpretation of federal and state statutes affecting rail and water rates; influence of competitive forces; traffic geography; classifications; rate adjustments; survey of decisions of commissions and courts, interstate and local rate problems. Prerequisite, B.A. 104. Fee, \$.50. Five credits; autumn. Frame.

152. *Shipping and Consular Regulations*.—Navigation laws relating to prevention of collisions at sea; inspection of vessels; employment of seamen; carrying of cargo and passengers; towage and pilotage; wharfage and moorage; liability of vessels and owner; duties of consular officials; administration of navigation laws. Fee, \$.50. Three credits; spring. Gould.

154. *Cost Accounting I*.—Organization of cost department; relation of cost to other departments; production factors; cost finding methods; material and labor records; preparation of operating statements. Prerequisite, B.A. 112. Fee, \$.50. Five credits; winter. McConahey.

155. *Cost Accounting II*.—Production and service departments; distribution of manufacturing expense; preparation of cost reports in planning and controlling production; standard costs, etc. Prerequisite, B.A. 112. Fee, \$.50. Five credits; spring. McConahey.

156. *Auditing*.—Auditing procedure; balance sheet audits; analysis of asset and liability values; profit and loss statement audits; analysis of income and expense; certifications and reports; classifications of audits and investigations. Prerequisite, B.A. 112. Fee, \$.50. Five credits; autumn. McConahey.

157. *Income Tax Accounting*.—Government decisions affecting the practical determination of taxable income; persons, corporations, partnerships subject to tax; exemption and exception; deductions and allowances; preparation and analysis of returns. Prerequisite, B.A. 112. Fee, \$.50. Five credits; winter. McConahey.

158. *Managerial Accounting*.—Organization and duties of the accounting department in business from the standpoint of the management; the vital connection between management and accounts; how accounts should be handled to produce reports and statistics of the utmost value to the management. Prerequisite, B.A. 112. Fee, \$.50. Five credits; autumn. McConahey.

159. *Advanced Money and Banking*.—Selected topics in monetary science and business finance; value of money; financial effects of the great war; the Federal Reserve system; agricultural credit; business cycles. Prerequisite, B.A. 103. Fee, \$.50. Five credits; spring. Preston.

160. *Advanced Economics*.—A study of economic thought centering about the Neo-classical theories of value and distribution and the validity of this thought under present conditions. Fee, \$.50. Five credits; autumn, winter, spring. Coon.

161. *Labor Economics*.—The labor factor in the development of eco-

conomic thought. A critical study of current theories. Fee, \$.50. Five credits; winter. McMahon.

162. *European Labor Problems*.—Labor movements of modern Europe; economic and political backgrounds, in relation to types of labor organizations. Fee, \$.50. Five credits; autumn. McMahon.

163. *Industrial Management*.—Problems of promotion and location of industrial plants. Selection of site, layout of processes, and control of material. Types of buildings, lighting, safety appliances, economic and psychological effect of scientific management. Fee, \$.50. Five credits; autumn. Leib.

164. *Land Economics*.—Brief review of the colonization and economic development of the United States, designed to bring out the chief factors involved in land settlement and land utilization. Some attention will be given to certain economic and business phases of contemporary American agricultural, marketing problems, reclamation and land settlement policies. Fee, \$.50. Five credits; winter. Eldred.

\*165. *Labor Legislation*.

\*166. *Women in Industry*.

167. *Employment Management*.—Labor surveys, employment forms, job analysis and job specifications, time study, foreman training, wage determination, labor turnover, employees' associations and effective correlation of labor with manager and plant. Fee, \$.50. Five credits; winter. Leib.

168. *History of Economic Thought*.—A study of the contributions of the classical and Neo-classical economists and their contemporary critics. Primary sources will be used and attention will be given to the industrial, social, and political background of economic thought. Fee, \$.50. Five credits; autumn, spring. Coon.

169. *Principles of Real Estate*.—The economic principles underlying the valuation of real estate, both urban and rural; relation of income and capital value; methods of appraisal; depreciation and obsolescence; leases; taxation and special assessments. Prerequisite, B.A. 164. Fee, \$.50. Five credits; spring. Eldred.

170. *Casualty Insurance*.—Study of real estate transactions, interests, liens, sales, transfers, mortgages, valuations, title, credit, fidelity, automobile, tornado and miscellaneous forms of property and liability insurance. Prerequisite, B.A. 108. Fee, \$.50. Five credits; winter. Smith.

171. *Modern Criticism*.—A study of present day criticisms of "orthodox theory" and a consideration of modern tendencies and controversies in economic thought. Fee, \$.50. Five credits; winter. Coon.

172. *Executive Technique*.—Internal organization of the business, departmental organization and coordination; various systems of management; use of reports and charts and consideration of problems presented by local industries. Fee, \$.50. Five credits; spring. Leib.

173. *Commercial Policies*.—Commercial policies of the nations of the world in connection with the development of American foreign trade. Fee, \$.50. Five credits; autumn. Skinner.

175. *Business Cycles and Business Forecasting*.—A brief study of the evidences of regularity in the characteristic fluctuations of business activity, followed by a consideration of the feasibility of devising a practical

\* Not offered in 1927-1928.

technique of business forecasting. Prerequisite, B.A. 59. Fee, \$50. Five credits; spring. Eldred.

176. *Investment Analysis*.—An analytical study of typical industrial, public utility and railroad securities. Analysis of financial operations, revenue and expense reports and their relation to investment values. The principles of valuation and rate structure of public utilities. Problems. Fee, \$50. Prerequisites, B.A. 64, 121, and 122. Five credits; spring. Dakan.

181. *Economics of Consumption*.—Historical development of human wants in relation to the economic laws of consumption; influence on the production and distribution of wealth. Attempts to control consumption through private and governmental agencies. Fee, \$50. Five credits; spring. McMahon.

184. *Auditing Technique*.—Prerequisite, B.A. 112. Fee, \$50. Five credits; autumn, winter, spring. Robertson.

185. *C.P.A. Problems*.—Selected problems covering various accounting principles. Work taken from American Institute and state C.P.A. examinations. Emphasis placed on speed, accuracy and forms of presentation. Prerequisite, B.A. 112. Fee, \$50. Five credits; spring. McConahey.

188 *ABC. Apprenticeship in Merchandising*.—Students are placed full time in autumn and spring quarters in actual business. Four-six credits; autumn, winter, spring. Grant.

189. *Bank Credit Administration*.—A study of the administration of bank credit based on actual problems selected from portfolios of Pacific Northwest banks. Fee, \$50. Three credits; winter. Truax.

191 *ABC. Research in Accounting*.—Two-five credits; autumn, winter, spring. Davis.

195 *ABC. Research in Foreign Trade and Transportation*.—Two-five credits; autumn, winter, spring. Skinner, Frame.

196 *ABC. Research in Management*.—Two-five credits; winter spring. Leib, Gregory.

197 *ABC. Research in Finance*.—197A, attention given to international financial reconstruction. 197C, attention to monetary and price theory. Two-five credits; autumn, winter, spring. Preston.

198 *ABC. Research in Marketing and Advertising*.—Two-five credits; autumn, winter, spring. Burd.

#### COURSES FOR GRADUATES ONLY

201 *ABC. Graduate Seminar*.—Two-five credits; autumn, winter, spring. Cox.

205 *ABC. Seminar in Value and Distribution*.—Two-five credits; autumn, winter, spring. Coon.

207 *ABC. Seminar in Labor*.—Two-five credits; autumn, winter, spring. McMahon.

#### Teachers' Courses in Business Administration

Educ. 160D. *Commercial Teachers' Course*.—Five credits; (Two credits only count in education); spring. Draper.

Educ. 160DD. *Teachers' Course in Shorthand and Typewriting*.—Five credits (two credits only count in education); spring. Hamack.

## EDUCATION

## Education Hall

*Professors Bolton, Ayer, Randolph, Roberts; Associate Professor Jessup; Assistant Professors Williams, Dvorak, Hughes, Draper; Associate Wait and Assistants.*

Note: All special teachers' courses are listed and numbered as education courses.

Courses 101 or 102 are open to sophomores who have received 65 credits in college courses. One is prerequisite to all other courses in education for all students except college graduates and students entering from normal schools. Of the remaining courses in this group (1), 119 and 140 should be taken during the junior year. These courses are prerequisite to 145 which should be planned for the autumn or winter terms of the senior year. Placements for the spring term are limited. Courses 101 or 102, 119, 140 and 145 and one teachers' course in a special subject, numbered 160 are regularly required for the five-year normal diploma. Normal school students are not permitted to take courses 101 or 102, 140 or 145. They are required to take 119, 150, 152, and from group (2) five credits in courses numbered above 150.

As a result of a petition by the students an education library fee of 50 cents is charged each student for each course in education, except in courses 150, 160D, 160DD, 160Z, 196-197-198, 285-286-287. According to the agreement, students will not be required to purchase more than one text book in any one course.

## I. ELEMENTARY COURSES

*101. Introduction to the Study of Education.*—General course covering the field of education. Open to sophomores who have earned 65 credits. Course 101 or 102 or approved equivalent is prerequisite to all other courses in education, except for normal school and college graduates or others who have had approved equivalent elsewhere. Five credits; autumn, winter, spring or summer. Jessup, Ayer.

*102. Elementary Educational Psychology.* An elementary study of the psychology of pupils to determine the types of materials for the curriculum, the most advantageous periods for learning, and the laws of economical learning. Special emphasis upon adaptation to native endowment and individual differences. Open to sophomores who have earned 65 credits. Course 101, or 102 or approved equivalent, is prerequisite to all other courses in education, except for normal school and college graduates or others who have had approved equivalents elsewhere. Five credits; winter, spring and summer. Bolton.

\*115. *Child Study.*

*119. Secondary Education: Problems of the High School Teacher.*—Secondary school curricula and closely related problems. Should be taken during the junior year. Prerequisite, Educ. 101, or 102 or approved equivalent. Three credits; autumn, winter, spring, or summer. Roberts, Draper.

*140. Psychology of Teaching Methods.*—An attempt to discover the psychological foundation of methods. The application of these to concrete illustrations of teaching. Especially applied to high school instruction. Should be taken during the junior year. Prerequisite, Educ. 101, or 102, 119 or approved equivalent. Students who plan to take 140 and 150 should take 150 first. Five credits; autumn, winter, spring, or summer. Williams.

\* Not offered 1927-28.

**145. Practice Teaching.**—One lecture a week, conferences with the instructor, assigned readings, and one period each day devoted to observation and practice teaching under supervision in the Seattle city schools. Prerequisite, Educ. 101, or 102, 119, 140 or approved equivalent. Five credits; (For Phys. Educ. major, two, three or five credits). Application for practice teaching placement must be made before June of the junior year and plans should be made to take the course either autumn or winter terms of the senior year. Only a limited number can be accommodated in the spring term. Application blanks are available at the office of the dean of the School of Education. Assignments to the city schools are given out the opening day of each quarter. Autumn, winter, or spring. Hughes.

**\*146. Practice Teaching II.**

Courses 101 or 102 and 140 are prerequisite, except as stated above, to courses 160A to 160Z. One of the "teachers' courses" is required for the normal diploma.

**160A. Teachers' Course in Botany.**—Discussion of texts, subject matter and methods of presenting the subject. -Prerequisite, two years of botany. Two credits; autumn. Frye.

**160B. Teachers' Course in Chemistry, Laboratory Methods of Instruction.**—No lab. fee. Prerequisite, at least 20 credits of college chemistry of average B grade. Two credits; autumn, winter or spring. Smith

**160C. Teachers' Course in Latin.**—Methods and problems in the teaching of high school Latin. Prerequisites, Latin 100 or 101 or 102. Except by special arrangement this course must be taken in combination with Latin 107. Two credits; autumn. Stone.

**160D. Commercial Teachers' Course.**—Typical business courses are examined and made the basis for discussions on needs of local business conditions. Study of the content of high school commercial courses and of texts. Prerequisites, twenty-five hours of the thirty-five required for a major in commercial teaching, including fifteen hours in accounting and B.A. 16, 19. Fee, \$1.50. Five credits; spring. Two hours only count as education credits, three hours as business administration. Draper.

**160DD. Teachers' Course in Shorthand and Typewriting.**—To prepare students for teaching shorthand and typewriting. Correlation of this work with actual work in business houses. Prerequisites, twenty-five hours of the thirty-five required for a major in commercial teaching, including B.A. 16, 19, 81, and 82. Fee, \$1.50. Five credits; spring. Two hours only count as education credit, three hours as business administration. Hamack.

**160E. Teachers' Course in English.**—Methods and problems in the teaching of English in the high school. Two credits; autumn, winter, spring. Sperlin.

**160F. Teachers' Course in Geography.**—Teaching of geography, physical geography, commercial geography and geology in the schools. Prerequisites, one term of geology, physiography or geography. Two credits; winter. Renner.

**160G. Teachers' Course in German.**—Aims and methods in their application to the teaching of German; lesson plans; courses of study for high schools; textbooks and aids in teaching; coaching of underclassmen in elementary classes. Prerequisite, Ger. 110. Two credits; spring. Meisnest.

\* Not offered in 1927-1928.

**160H. *Methods of History Teaching.***—With special reference to the work of the high school. Required of majors in history who expect to teach. Prerequisite, History 160. Two credits; winter. McMahon.

**160I, 160J. *Teachers' Course in Home Economics.***—Curricula, methods, of teaching and equipment. Prerequisite, H. E. 5, 116, 112, 113, 143, 144, 145; Arch. 1, 2; Physics 89-90; Bact. 101. Three recitations. Three credits each quarter; only two credits counted toward the normal diploma, the other three credits are counted in home economics. Autumn, winter. Raitt, Denny.

**160K. *Teachers' Course in News Writing.***—Text Borah's Newswriting for High Schools. Two credits; spring. Borah.

**160L. *Teachers' Course in Dramatic Art.***—Two credits spring. Lovejoy.

**160M. *Teaching of Mathematics.***—Problems peculiar to the teaching of high school mathematics. Nature and value of mathematics with their pedagogic bearings. Critical review of courses and methods of teaching. Required of mathematics majors who are candidates for the normal diploma. Prerequisite, Math. 109. Three credits; (Two credits in education, one credit elective); spring. Jerbert.

**160N. *Teachers' Course in Music Education.***—A study of principles and methods in teaching music in the public schools. Prerequisite, Music 113, 114. Two credits, spring. Newenham.

**160O. *Civics in Secondary Schools.***—Attitude of approach, arrangement of material, methods of presentation; development of an appreciation of the reality of our political system; use of material, textbooks, current articles, legislative bills, sample ballots, observation of local government agencies. Two credits; spring. MacNair.

**160P. *Methods of Teaching Art.***—Courses of study, methods and material. Prerequisite, P.S. and D. 5-6-7, 9-10-11, 53, 54, 55, 56-57-58, 105. Two credits; autumn. Rhodes.

**160Ph. *Teachers' Course in Pharmacy.***—Methods and problems in the teaching of pharmacy in the high school. Two credits; autumn, winter, spring. Lynn.

**160R. *Teachers' Course in Physical Education.***—Curricula, application of educational principles to the teaching of physical education, administration in public schools. Prerequisites. Physical Educ. 101-102, 103, 104-105-106, 111-112, 113. Two credits; autumn. Gross.

**160S. *Teachers' Course in Physical Education for Men.***—Prerequisite. Phys. Educ. 115. Two credits; spring. Arbuthnot.

**160T. *Teachers' Course in French.***—Aims and methods best suited to attain them. Prerequisites, French 41, 101, 102, 103, 158, and 159. Two credits; spring. Frein.

**160U. *Teachers' Course in Spanish.***—Methods of Teaching Spanish. Practice in the classroom. Prerequisites, Span. 101, 102, 103, 191 must be taken concurrently with 159. Two credits; spring. Ober.

**160X. *Teachers' Course in Piano Playing.***—Survey of teaching material, with supervised practice. Prerequisite, Music 165, 166. Two credits; spring. Risegari.

***Piano Teaching Methods.***—See Music 165, 166.

**160Z. *Teachers' Course in Zoology.***—For students preparing to teach

zoology in high schools. Lab. fee, \$1.50. Prerequisite, 20 hours in zoology. Two credits; winter. Guberlet.

## II. ADVANCED UNDERGRADUATES AND GRADUATES

To be admitted to courses in this group (II) students must have earned at least 10 credits in education, including courses 101 or 102 and 140, or the equivalent. Normal school graduates are qualified to enter.

150. *Introduction to Educational Measurements.*—History and development of the use of tests and scales in education. Group intelligence tests, elementary statistical methods as applied to the handling of educational data, educational achievement or subject tests and scales. Lab. fee, \$3. Three credits; autumn, winter, spring or summer. (Two credits in Saturday section.) Dvorak.

151. *Educational Sociology.*—A systematic view of the larger relations underlying and surrounding the school, with the chief emphasis placed on generalization. Three credits; winter, spring or summer. Randolph.

152. *Social Surveys of School Studies and Activities.*—An attempt (a) to summarize the results to date of attempts by inductive methods to arrive at socially valid materials for the school studies; and (b) to evaluate the theories involved. Two credits; winter, spring or summer. Randolph.

154. *Junior High School.*—History of the reorganization movement; functions and features of the new organization. Prerequisite, Educ. 119. Five credits, spring. Draper.

154a-154b. *Junior High School.*—Given on Saturday primarily for city teachers. Extends over two quarters and no credit allowed unless entire course is completed. Prerequisite, Educ. 119. Two and one-half credits each quarter; autumn and winter.

### \*156. *High School Organization.*

157. *Extra-Curricular Activities.*—History of activities, values and objectives, classification of, participation of pupils in, teachers' relation to; records, etc. Prerequisite, Educ. 119. Five credits; spring. Draper.

159. *The High School Principal.*—A study of the high school principal as supervisor, administrator and director of extra-curricular activities. Problems based upon the organization of the school, the teaching staff, the high school population, curriculum making and extra-curricular activities will be considered. Prerequisite, Educ. 119. Three credits; winter. Draper.

161. *History of Education.*—Social interpretation of the historic beginnings of education, contributions of the Greeks and Romans, development of Christianity, medievalism, and the beginnings of modern education. Development of educational practices since the Renaissance. Five credits; winter. Randolph.

163. *History of American Education.*—Lectures, readings and investigations, focusing on the development of practices, theory, and instrumentalities rather than on the development of administrative organization. Five credits; spring. Randolph.

### \*164. *The History of Secondary Education.*

165. *Problem Children.*—Subnormal, superior, backward, eccentric, and delinquent children studied from the point of view of the teacher. Five credits; winter. Dvorak.

\* Not offered in 1927-28.

\*170. *Educational Psychology.*

\*172. *Psychology of Elementary School Subjects.*

173. *Psychology of High School Subjects.*—Consideration of experimental studies which form the basis for learning and teaching subjects in the high school curriculum; English, mathematics, science, history, and foreign languages. Prerequisites, Educ. 101, 140, 119. Three credits; winter. Williams.

\*174. *Psychological Problems of Vocational Education.*

176. *Educational Guidance.*—Methods and literature of personal, vocational, and educational guidance in the public schools, advisory systems, child accounting, classification, promotional plans, predictions, placement. For advanced students and teachers only. Five credits; winter. Jessup.

179. *The Health Education Movement.*—Its place in the elementary and secondary school program and in the community at large. The part of the school nurse, the physical education, home economics and classroom teachers in this work. Open to students majoring in any subject, who expect to teach in elementary or high schools. Three credits; spring. Soule. Rowntree.

181. *Educational Problems of Adolescence.*—Physical, intellectual, emotional, moral and social characteristics of adolescents, and the educative activities suited to the period of secondary school education. Five credits; autumn. Bolton.

186. *Elementary School Curriculum.*—The construction and organization of the elementary school curriculum. Subjects, time schedules, principles, objectives, activities, classification, adaptation, projects, platoon plan, etc. Five credits; winter. Ayer.

191. *Educational Administration, State and County.*—Three credits; autumn. Ayer.

192-193. *Educational Administration: City School.*—For those preparing for superintendencies, principalships, and other supervisory positions. Three credits a quarter; winter and spring. Five credits in summer. Ayer.

195. *School Supervision.*—Analysis of the problems and technique of the improvement of school work through the in-service education of teachers. Five credits; spring. Ayer.

196-197-198. *Intelligence and its Measurement.*—The concept of intelligence with its practical bearing on school and social ability. Specialized training in the Stanford-Binet individual examination. For advanced students, teachers and principals. Lab. fee, \$2 per quarter. Two credits a quarter; autumn, winter, and spring. Dvorak.

#### COURSES FOR GRADUATES ONLY

To be admitted to courses in this group (III) students must be college graduates, and must have earned at least 18 credits or the equivalent in education. The following courses may be counted toward the masters' and doctors' degrees.

201-202-203. *Problems in Modern Methods.*—For advanced students. A critical evaluation of methods in examinations, grading, supervised study, the project, socialized recitation, problem method, assignment, laboratory procedure etc. A seminar. Two credits each quarter; autumn, winter, spring and summer. Williams.

\* Not offered in 1927-28.



206. *Educational Statistics*.—Thorough course in the statistical treatment and interpretation of education data. For advanced students, teachers and administrators. Three credits; autumn. Dvorak.

210. *Methods of Educational Research*.—Practices and methods in carrying out and writing up research problems. One credit; autumn and summer. Dvorak.

212-213. *Comparative Education*.—Modern education in foreign countries, especially in Germany, France, England, Norway, Sweden and Canada. Relation between social ideals of nations and their educational systems. Post-war reorganization. Influence upon educational theories and practices in America. Two credits a quarter; winter, spring. Jessup

215. *Junior College*.—A study of the facts and conditions which have led to the development of the junior college movement with an investigation of the purposes, objectives, curricula, economic and educational advantages of the junior college. Three credits; spring. Dvorak.

\*232-233. *Advanced Educational Psychology*.

\*235. *Survey of Recent Educational Literature*.

241-242-243. *Educational Diagnosis*.—A study of the materials and methods to be used in the educational survey of classes, schools or individual pupils. The diagnostic value of the survey with indicated follow up teaching will be emphasized. For teachers, supervisors, and administrators. Two credits a quarter; autumn, winter, spring. Dvorak.

261\*-262-263. *Seminar in Educational Sociology*.—Introductory summary of the tendencies and recent contributions of educational sociology, followed by practical work upon selected problems. Two credits a quarter; winter and spring. Randolph.

271-272-273. *Seminar in Educational Surveys*.—Two credits a quarter; autumn, winter, spring. Ayer.

275-276-277. *Seminar in Secondary Education*.—A study of curricula adjustments of the elementary school and the high school with special attention to the junior high school. The relation of the high school to college and university, with emphasis upon the socialization of the high school curriculum. Studies in curricula reorganization. Two credits a quarter; autumn, winter, spring. Draper.

\*281. *Seminar in Character Education*.

\*285-286-287. *Seminar in Educational Measurements*.

291-292. *Seminar in School Legislation*.—A comparative study of school legislation in the various states. Intensive investigation of special topics relating to needed legislation in Washington and other states. Two credits a quarter; autumn, winter. Jessup.

293. *Seminar in School Finance*.—An intensive study of various methods of raising and distributing school revenues. Special consideration to needs in Washington. Two credits; spring. Jessup.

298, 299, 300. *Individual Research or Thesis Work*.—Original investigation of special problems. Results are usually reported in one of the seminars and when especially meritorious may be published. Special problems directed by members of the department. Credits to be arranged; autumn, winter, spring. Staff.

\* Not offered in 1927-28.

## ELECTRICAL ENGINEERING

## Engineering Hall

*Professors Magnusson, Kirsten, Loew; Assistant Professors Shuck, Hoard, G. S. Smith; Instructors Eastman, Lindblom, Bergstrom, Wier.*

**101. Direct Currents.**—Short course in continuous current machinery, for non-electrical students, to be taken in connection with E.E. 102. Prerequisite, Phys. 98. Four credits; autumn, winter spring. Shuck, Smith.

**102. Direct Currents Laboratory.**—Continuous current machinery, for non-electrical students. To be taken with E.E. 101. Prerequisite, Phys. 98. Lab. fee, \$4. Two credits; autumn, winter, spring. Eastman, Lindblom.

**105. Electric Wiring and Illumination.**—A short course for architects. Two credits; autumn. Shuck.

**109. Direct Currents.**—Theory of electric and magnetic circuits; construction, operation and characteristics of direct current generators and motors. To be taken with E.E. 110. Prerequisite, Phys. 98. Four credits; autumn, winter spring. Lindblom, Shuck, Eastman.

**110. Direct Currents Laboratory.**—Direct current machinery. Prerequisite, Phys. 98. Lab. fee, \$4. To be taken in connection with E.E. 109. Two credits; autumn, winter, spring. Shuck, Eastman, Smith.

**111. Direct Currents.**—Continuation of E.E. 109 in direct current machinery. Storage batteries. Regulation and control of direct current systems. To be taken in connection with E.E. 112. Prerequisite, E.E. 109. Four credits; autumn, winter, spring. Eastman, Shuck, Lindblom.

**112. Direct Currents Laboratory.**—Experimental work on direct current dynamo machinery and on storage batteries. To be taken with E.E. 111. Prerequisite, E.E. 110. Lab. fee, \$4. Four credits; autumn, winter, spring. Shuck, Hoard.

**\*\*15. Elementary Direct Currents.**—(Extension Night Class.) Laws of the electric and magnetic circuits with application to direct current machinery without the aid of advanced mathematics. For electricians having at least two years of practical experience with electrical machinery. Shuck.

**\*\*20. Elementary Alternating Currents.**—(Extension Night Class.) Alternating current theory with experimental work on alternating current machinery. Prerequisite, E.E. 15. Shuck.

**121. Alternating Currents.**—Alternating currents, for non-electrical students. To be taken with E.E. 122. Prerequisite, E.E. 101. Four credits; autumn, winter, spring. Hoard.

**122. Alternating Currents Laboratory.**—Experimental work on alternating current machinery. To be taken with E.E. 121. Prerequisite, E.E. 102. Lab. fee, \$4. Two credits; autumn, winter, spring. Eastman, Shuck.

**131. Electric Communications.**—Wire and radio telephone and telegraph. Theory, construction, and operation of electric communication systems. Central telephone station practice. Prerequisite, Physics 98. Four credits; autumn. Eastman.

**132. Telephone Transmission.**—Theory of telephone transmission; reflection phenomena; measurements of line constants; design of telephone equipment. Prerequisite, E.E. 161. Lab. fee, \$2. Three credits, winter. Eastman.

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\*\*Will be offered if a sufficient number of students elect the course.

**\*\*141. Illumination.**—Electric lamps; commercial photometry; adaptation of electric lighting to commercial requirements. Junior or senior elective. Prerequisites, E.E. 109, 110. Lab. fee, \$2. Four credits; spring. Shuck.

**152. Electrical Machine Design.**—Complete design of one direct current generator or motor. Prerequisites, E.E. 111, 112. Three credits; autumn, winter, spring. Loew.

**\*\*154. Design of Electrical Apparatus.**—Switchboards, transformers, alternators, alternating current motors, etc. Prerequisites, E.E. 152. Four credits. Loew.

**161. Alternating Currents.**—Theory of singlephase and polyphase system; energy storage in magnetic and dielectric fields; vector diagrams and the symbolic methods of analysis; power factor and power measurements; hysteresis and eddy currents; theory of the transformer, singlephase and polyphase induction motors. To be taken with E.E. 162. Prerequisite, E.E. 111. Six credits; autumn, winter, spring. Loew, Hoard, Smith, Lindblom.

**162. Alternating Currents Laboratory.**—Experimental work with alternating current machinery. To be taken with E.E. 161. Prerequisite, E.E. 112. Lab. fee, \$4. Four credits; autumn, winter, spring. Hoard, Lindblom, Shuck.

**163. Alternating Currents.**—Theory of alternators, rotary converters, synchronous and commutator motors and transmission lines; high tension phenomena; corona; commercial wave forms; unbalanced and inter-linked systems. To be taken with E.E. 164. Prerequisite, E.E. 161. Six credits; autumn, winter, spring. Loew, Hoard, Smith.

**164. Alternating Current Laboratory.**—To be taken with E.E. 163. Prerequisite, E.E. 162. Lab. fee, \$4. Four credits; autumn, winter, spring. Shuck, Hoard.

**171. Electric Railways.**—Equipment, roadbed, construction and operation. Prerequisite, E.E. 109, 110. Four credits; winter. Hoard.

**173. Central Stations.**—Location, design, and operation of electric central stations. Prerequisite, E.E. 163, 164. Four credits; autumn, spring. Kirsten.

**175. Power Transmission.**—Theory, design and operation of electric power transmission lines. Prerequisites, E.E. 163, 164. Four credits; autumn, spring. Loew.

**177. Electric Public Utilities.**—Organization, ownership, valuation rates service requirements, regulation and public relations. Prerequisites, E.E. 163, 164. Two credits; winter. Hoard.

**180, 182, 184. Research.**—Two to five credits a quarter: autumn, winter spring. Kirsten, Loew.

**181. Radio.**—Lineal, open and complex oscillations; coupled circuits; resonance; theory and operation of the vacuum tube as a detector, amplifier and oscillator; dynatron characteristics. Prerequisites, E.E. 161, 162. Lab. fee, \$2. Five credits; autumn, winter. Eastman.

**183. Radio.**—Spark telegraphy; continuous wave telegraphy; radio telephony; theory of antennae and radiation; amplifier circuits. Prerequisite, E.E. 181. Lab. fee, \$2. Five credits; spring. Eastman.

**186, 188. Thesis.**—After consultation with the head of the department the student selects a suitable topic for investigation. Reports of progress are made weekly to the instructor in charge of the work selected. A complete report of the work is typewritten and bound and a copy deposited in the University library. Two to five credits a quarter; autumn, winter, spring. Magnusson, Kirsten.

\*\* Will be offered if a sufficient number of students elect the course.

191. *Engineering Equations*.—Mathematical investigation of electrical phenomena with quantitative solutions of typical engineering problems. Prerequisites, E.E. 161, 162. Three credits; winter. Loew.

190, 192, 194. *Seminar*.—Prerequisites, E.E. 163, 164. Four credits; autumn, winter, spring. Magnusson, Kirsten.

195. *Electric Transients*.—Exponential law of simple transients; single and double energy transients; current oscillations and traveling waves; natural period of transmission lines; short circuits transients; surges; corona; lightning phenomena. Prerequisites, E.E. 163, 164. Two credits; autumn, winter, spring. Magnusson.

196. *Electric Transients Laboratory*.—To be taken in connection with E.E. 195. Prerequisite, E.E. 164. Lab. fee, \$2. Two credits; autumn, winter, spring. Lindblom.

198. *Electric Transients Laboratory*.—Continuation of E.E. 196. Lab. fee, \$2. Two credits; autumn, winter, spring. Smith.

#### COURSES FOR GRADUATES ONLY

210, 212, 214. *Research*.—Two to five credits a quarter; autumn, winter, spring. Magnusson.

#### ENGINEERING SHOPS

*Assistant Professor Schaller, Assistant Sullivan*

52. *Pattern Shop*.—Designing and building wooden patterns and foundry flask equipment. Lab. fee, \$2. One credit; autumn, winter, spring. Sullivan.

53. *Foundry*.—Bench and floor moulding, use of moulding machines, core making, cupola practice, and foundry management. Lab. fee, \$3. One credit; autumn, winter, spring. Sullivan, Schaller.

54. *Forge*.—Forge practice, acetylene welding and heat treatment of steels. Lab. fee, \$2. One credit; autumn, winter, spring. Schaller.

55. *Machine*.—Elementary machine shop practice and management. Lab. fee, \$2. One credit; autumn, winter, spring. Schaller, Sullivan.

56. *Assembly*.—Machine assembly, bench work and inspection, shipping. Prerequisite, Shop 53. Lab. fee, \$2. One credit; autumn, winter, spring. Sullivan.

105. *Advanced Machine Shop Practice, Millwrighting*.—Prerequisite, Shop 55. Lab. fee, \$2. One credit; autumn. Sullivan.

106. *Advanced Machine*.—Advanced machine shop practice. Jigs and fixtures. Prerequisite, Shop 105. Lab. fee, \$2. One credit; winter. Sullivan.

107. *Shop Planning*.—Design and equipment of a representative manufacturing plant. Prerequisite, Shop 106. Lab. fee, \$2. One credit; spring. Schaller.

115. *Shop Management*.—Designing of plants both as to location and physical characteristics, as well as a study of their effective operation. Lab. fee, \$1. Three credits; winter. Schaller.

120. *Factory Cost Analysis*.—Analysis of shop practice with view to determining costs of operation and products. Lab. fee, \$1. Three credits; autumn and spring. Schaller.

## ENGLISH

Denny Hall

*Professors Padelford, Parrington, Benham Cox, Griffith; Associate Professors Milliman, Orr, Harrison; Assistant Professor Hughes; Instructors Winther, Windesheim, Eby, Ethel; Lecturer Sperlin; Associates Lawson, Jones, Vickner, Kerrigan, Wagenknecht, Lewis, Brown, Peterson, Cappon, Cederstrom; Assistants and Teaching Fellows.*

## SUGGESTIONS FOR MAJOR STUDENTS

The major requirement in English is from 36 to 60 hours, of which at least 50 per cent must be upper division courses. English 1 and 2, or their equivalent of elementary composition, are required but cannot be counted toward a major.

*Lower Division Students.*—The lower division student should first satisfy the requirements of his college, so that he may have a broad training as a background for his English studies. If however, after the fulfilment of these requirements, his schedule permits added work in English, he may register for any of the following courses: *Advanced Composition* (51, 52, 53; 54, 55, 56; or 61, 62, 63); *Readings in Literature* (80); *The Romantic Poets* (83); *Tennyson, Browning and their Contemporaries* (84); *Literary Backgrounds* (64, 65, 66); *Great American Writers* (67, 68, 69); *Shakespeare* (70, 71, 72); *Introduction to Modern Literature* (73, 74, 75); *Introduction to Poetry* (21); *Introduction to the History of the English Language* (117, 118, 119). Of these *Advanced Composition* and *Introduction to the History of the English Language* are especially recommended. As 60 credits, exclusive of freshman composition, is the maximum of English work allowed for a major, the student should avoid registering for more than 20 lower division credits in addition to English 1 and 2.

If a student has five hours credit for a lower division course in any literary period, he may, when he becomes an upper division student, disregard the recommendation below of the three-hour course in the same period. This rule applies to the following combinations of upper division and lower division courses in the same literary period. *The Romantic Poets* (83) and *The Romantic Movement in English Poetry* (174); *Tennyson, Browning and their Contemporaries* (84) and *The Victorian Poets* (175); *Great American Writers* (67, 68, 69) and *American Literature 1815-1870* (163); *Introduction to Shakespeare* (70, 71, 72) and *Shakespeare* (170).

*Upper Division Students.*—Senior Examination. At the conclusion of the senior year all major students are required to take an examination in literature. As the minimum requirement of 36 hours for a major subject is commonly inadequate to prepare for the senior examination, it will be well to increase the election materially. The examination will presume (1) a knowledge of the general development of English literature from Anglo-Saxon times and (2) a more detailed knowledge of important periods and writers. The department recommends as preparation for this examination the following 3-hour courses: *Chaucer* (131); *Shakespeare* (170); either *Milton and his Contemporaries* (127) or *The Classic Period* (144); *American Literature 1815-1870* (163); and two courses from *The Romantic Movement in English Poetry* (174), *The Victorian Poets* (175), and *Nineteenth Century Prose* (137).

*1-2-3. Elementary Composition.*—Principles and practice of composition, with conferences for personal criticism. A grade of "A" in English 1 excuses a student from 2 on the recommendation of his instructor. Five

credits for two quarters; autumn, winter, spring. For Fine Arts students, three credits for three quarters; autumn, winter, spring.

Miss Lawson in charge  
 4. *Elementary Composition*.—For students in forestry, fisheries, and pharmacy. Students are required to repeat the course if their work is not of high quality. Three credits; autumn, spring.

Miss Lawson in charge  
 5. *Elementary Composition*.—For students in fisheries and forestry. Three credits; winter. Miss Lawson in charge

7. *Elementary Composition for Students of Engineering and Mines*.—A non-credit composition course for students who need additional preparation before entering English 100. This course is taught by personal conference or by group discussions and is required of those who fail in their examination for entrance into English 100. No credit; spring, autumn, winter. Hours to be arranged. Hall.

21. *Introduction to Poetry*.—Designed to develop appreciation and understanding of poetry. Study of the poetic mind and of the material and methods of poetic art. Illustrative reading from poets of all periods. Five credits; winter, spring. Hughes.

37. *Argumentation*.—Primarily for students in the College of Business Administration. Research, analysis, the use of evidence, and the discovery of fallacies are stressed. Five credits; autumn, winter, spring.

Orr in charge  
 38. *Argumentation and Debating*.—A study of the principles of argumentation and their application in practical debate. Bibliographies, briefs, and oral and written arguments are required of each student. Important questions studied and debated in class. May be taken for upper division credit by upper division students. Five credits; autumn and winter.

Orr in charge  
 40. *Essentials of Speaking*.—This course seeks to remove self-consciousness, to discover a method of research that will arouse positive convictions, to teach a method for effective organization of material, to establish the power to think creatively before people, and to free the channels of expression so that the thought may be expressed effectively. Five credits; autumn, winter, spring. Orr in charge

41. *Advanced Speaking*.—A more technical study of the problem of speech delivery than in English 40. Both voice and body are trained to be more responsive to the mind. Proper coordination is secured through practical speech problems. Correction of speech defects. Preparation and delivery of speeches of different types before actual audiences when possible. Individual conferences when necessary. May be taken for upper division credit by upper division students. Prerequisite, English 40. Three credits; winter and spring. Windesheim.

43. *The Speaking Voice*.—A study of the vocal mechanism and the establishment of fundamental coordinations of mind, voice, and body, which are essential to effective speaking. May be taken for upper division credit by upper division students. Three credits; autumn, spring. Orr.

51, 52, 53. *Advanced Composition*.—Composition based upon models from current magazines. May be taken for upper division credit by upper division students. Prerequisite, English 1 and 2, 37, or 40. Three sections, two credits; autumn, winter, spring. Milliman.

54, 55, 56. *Advanced Composition*.—Description, narration, and the writing of criticism. May be taken for upper division credit by upper division students. Prerequisite, English 1 and 2, 37, or 40. Four sections. Two credits; autumn, winter, spring. Ethel, Wagenknecht.

61, 62, 63. *Verse Writing*.—Principles of versification with practice in verse writing. Prerequisite, English 1-2. Two credits; autumn, winter, spring. Hughes.

64, 65, 66. *Literary Backgrounds*.—A historical survey of English classics emphasizing the study of literary forms and the relation of literature to social and political movements. Open to all. Required in the freshman year of pre-journalism students. Five sections (Section A for pre-journalism students only. Five credits; autumn, winter.) Other sections carry three credits; autumn, winter, spring. Griffith in charge

67, 68, 69. *Great American Writers*.—Studies in the works of Emerson, Hawthorne, Longfellow, Lowell, Whitman, Poe, Bryant, Whittier, Mark Twain, and others. Two sections; autumn, winter, spring. Milliman, Eby.

70, 71, 72. *Introduction to Shakespeare*.—Detailed study of Shakespeare's principal plays. Three sections in autumn and winter; two sections in spring. Three credits; autumn, winter, spring. Wagenknecht.

73, 74, 75. *Introduction to Modern Literature*.—Essay studies of European and American thought in the nineteenth century and later, followed by readings in poetry, novel, and drama involving similar ideas. Three sections. Three credits; autumn, winter, spring. Milliman, Harrison, Winther.

80. *Readings in Literature*.—Studies in appreciation of selected poems, novels, essays, and dramas. Five credits; spring. Wagenknecht in charge

83. *Romantic Poets*.—Selections from the poetry of Wordsworth, Coleridge, Byron, Shelley, Keats. Five credits; winter, spring. Ethel.

84. *Tennyson, Browning and their Contemporaries*.—Two sections in spring. Five credits; spring. Winther, Lewis.

98. *The Bible as Literature*.—The literature of the Old Testament. Open to all. May be taken for upper division credit by upper division students. Three credits; spring. Wagenknecht.

100. *Composition for Students in Engineering and Mines*.—An intensive course in expository writing scheduled for juniors in the Colleges of Engineering and Mines. An examination taken in the sophomore year tests the ability of the student to recognize and construct clear English sentences and decides his admission to this course. Three credits; autumn, winter, spring. Hall.

101. *Public Debate*.—Students chosen for the debate squad may register for this course. The work is intensive, systematized instruction in practical debate. Regular meetings are held and definite tasks in research, analysis, and practical argumentation are assigned. Each member of the squad appears in public debate. Credits will be allowed upon the recommendation of the instructor in charge, provided that no more than two credits are earned in one year and that the total does not exceed six credits. Prerequisite, membership in the debate squad. Two credits; winter, spring. Orr in charge

102. *Advanced Composition for Engineers*.—In this course, the technical student who wishes to come in contact with authors representative of the thought or the culture of either the past or the present and to improve his own style of writing, is given opportunity to progress in accordance with his ability. Individual conferences, weekly. Prerequisite, English 100. Three credits; autumn, winter, spring. Hall.

104. *Contemporary Literature: American, French, German.*—Special studies in contemporary literature for advanced students. Three credits; autumn, winter, spring. Cox, Harrison, Winther.

105. *Contemporary Literature: Russian, Scandinavian.*—Special studies in contemporary literature for advanced students. Three credits; autumn, winter, spring. Harrison, Winther, Cox.

106. *Contemporary Literature: English and Irish.*—Special studies in English contemporary literature for advanced students. Three credits; autumn, winter, spring. Winther, Cox, Harrison.

110, 111, 112. *Advanced Verse Writing.*—Given in conjunction with English 61, 62, 63. All the elementary credits must be earned before advanced credit will be given. Two credits; autumn, winter, spring. Hughes.

117, 118, 119. *Introduction to the History of the English Language.*—Studies in the origins and the history of the English vocabulary; historical English grammar. Each quarter of this course is prerequisite to those that follow except by permission of the instructor. Open to sophomores who expect to major in English. Two credits; autumn, winter, spring.

124, 125. *The English Drama.*—Plays representative of the origin and development of English drama to 1642. Three credits; autumn, winter.

126. *Modern Drama.*—Plays representative of the development of English drama from 1642 to the present. Three credits; spring. Harrison.

127. *Milton and his Contemporaries.*—Three credits; autumn, spring. Benham.

130. *Medieval Literature.*—Old English classics studied in relation to the life and ideals of the Middle Ages. Three credits; winter. Griffith.

131. *Medieval Literature: Chaucer.*—Selections from the Canterbury Tales. Three credits; autumn, winter, spring. Griffith.

132. *Medieval Literature: Middle English.*—Middle English Literature, exclusive of Chaucer, with special emphasis upon the romances, Piers Plowman, and Gower. Three credits; spring. Griffith.

134. *The Reformation in England.*—The non-dramatic literature of the Elizabethan age. Three credits; winter. Benham.

137. *Nineteenth Century Prose.*—The development of nineteenth century prose considered in its relation to social movements and literary criticism. Three credits; autumn, winter, spring. Parrington, Winther.

139. *Oral Style.*—Construction of the longer and more formal type of address, such as the lecture, the sermon, the eulogy, the commemorative address, etc. The laws governing effective speech composition are studied. The best types of modern public addresses are analyzed for structure and style. Consideration of the problems of attention, interest, and successful appeal to action. Practice in the development of an effective oral style through the writing of the formal public address. Prerequisite, English 40. Three credits; spring.

141, 142, 143. *Social Ideals in Literature.*—Model commonwealths and such other literature as illustrates the development of social and economic thought. Three credits; autumn, winter, spring. Benham.

144. *The Classic Period.*—Eighteenth century prose and poetry from Pope to Johnson. Three credits; autumn, winter. Parrington.



145, 146. *Studies in Eighteenth Century Life and Literature.*—For the first quarter, the prose writers of the second half of the century—Johnson, Goldsmith, Walpole, Burke, Hume, etc. The critical, historical, and philosophical interests of the age. For the second quarter, the dawn of romanticism in poetry from Thomson to Wordsworth. The changing forms, spirit, and materials of poetry. Influences at work. Three credits; autumn, winter. Cox.

147, 148, 149. *History of the English Novel.*—The development of the English novel from the early eighteenth century to the present. The eighteenth century novel, the romantic novel, and the modern realistic novel are studied in the successive quarters. Three credits; autumn, winter, spring.

161, 162, 163.—*History of American Culture.*—A consideration of the American ideals and their expression in literature. The fall quarter is devoted to early New England, the winter quarter to the Knickerbocker School and the literature of the South, and the spring quarter to the New England Renaissance—*American Literature, 1815-1870.* Three credits; 161, autumn, 162, winter; 163, autumn, winter, spring. Parrington, Harrison.

164, 165, 166. *American Literature since 1870.*—Autumn, the beginnings of realism; winter, tendencies from 1900 to 1915; spring, contemporary fiction and poetry. Three credits; autumn, winter, spring. Parrington.

170, 171. *Shakespeare.*—The early plays and poems of Shakespeare to 1598, the later plays of Shakespeare, and selected problems in Shakespearean study are offered in successive quarters. Three credits; 170, autumn, spring with two sections in the autumn quarter; two sections winter, one section, spring. ———, Winther.

174. *The Romantic Movement in English Poetry.*—The forms, spirit, and materials of poetry in the early nineteenth century. Three credits; autumn, winter, spring. Cox.

175. *The Victorian Poets.*—Tennyson, Browning, the Pre-Raphaelites, Arnold, Clough, Swinburne, etc. Three credits; autumn, winter, spring.

\*183, 184, 185. *General Literature.*

188. *Advanced Speech Problems.*—Prerequisite, English 43. Three credits; winter, spring. This course may be repeated for credit. Orr.

189. *Oral Reading.*—Principles of expressive reading. Training in the natural use of the voice in reading, teaching, and conversation. Practice reading in class with criticism and suggestions. Offered especially to those who expect to teach English. Prerequisite, upper division standing. English 43 offers valuable preparation for this course. Three credits; autumn, winter, spring. Orr.

190. *Public Speaking and Debate in the High School.*—A survey of the courses offered in the high schools of this state. A review of the fundamental principles that apply to all effective speaking. A discussion of aims, standards, and methods with special reference to high school courses and to high school contests in speaking. The organization of high school courses in public speaking and debate. Methods of coaching debates. Prerequisite, English 38, 40, and upper division standing. Two credits; spring. Orr.

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\*Not offered in 1927-1928.

191, 192, 193. *Major Conference*.—This course is offered as preparation for the senior examination required of majors in English. Individual conferences to correlate studies in the different literary periods and for guidance in individual reading. Each student is expected to meet his instructor once a week in conference. Three credits; autumn, winter, spring. Cox, Harrison, Winther, and others.

*Teacher's Course*.—See Educ. 160E.

#### COURSES FOR GRADUATES ONLY

201, 202, 203. *Introduction to Graduate Study*.—Methodology and bibliography of the English language and literature. This course is normally the first graduate course in English. One credit; autumn, winter, spring. Benham.

204, 205, 206. *Seminar in Chaucer*.—The works of Chaucer and the problems of Chaucerian scholarship. Two to five credits; autumn, winter, spring. Griffith.

\*207, 208, 209. *English Literature from Chaucer to Spenser*.

\*211, 212, 213. *Seminar in Sixteenth Century Literature*.

217, 218, 219. *Seminar in Shakespeare*.—Problems in the study of Shakespeare and his contemporaries. Two to five credits; autumn, winter, spring.

221, 222, 223. *British Culture in the Seventeenth Century*.—Studies in the Renaissance and the Reformation as they affect England, 1601-1700. Puritan and Cavalier. Donne, Milton, Browne, Herbert, Herrick, Hobbes, Locke, and Dryden. The Jacobean and Restoration drama. The beginnings of English science. Two to five credits; autumn, winter, spring. Benham.

224, 225, 226. *Seminar in American Literature*.—Intensive studies in American literature. Two to five credits; autumn, winter, spring. Parrington.

230, 231, 232. *Old English*.—Anglo-Saxon grammar; readings in Old English prose and poetry; Beowulf. Three credits; autumn, winter, spring. Vickner.

240, 241, 242. *Seminar in Nineteenth Century Literature*.—Intensive study of writers of the nineteenth century. Two to five credits; autumn, winter, spring. Padelford.

250, 251, 252. *Thesis Research*.—A student should not enroll for this course until after he has chosen a thesis subject. Time and credit to be arranged. Autumn, winter, spring. The staff.

For other graduate courses that may be counted toward an English major for an advanced degree, see French 210, 211, 212, *French Criticism*; and Liberal Arts 214, 215, 216, *Studies in Realism*.

#### OTHER COURSES WHICH MAY RECEIVE CREDIT IN ENGLISH

*Play-writing*.—See Dramatic Art 111, 112, 113.

*History of Theatre Art*.—See Dramatic Art 127.

*History of Dramatic Form*.—See Dramatic Art 151, 152, 153.

*Introduction to Theory of Literature*.—See General Literature 101.

\*Not offered in 1927-1928.

## COMPARATIVE PHILOLOGY

The following courses in Comparative Philology are available in the department of Scandinavian Languages and Literature.

190, 191. *Introduction to the Science of Language*.—Two credits; autumn, winter. Vickner.

192. *Life of Words*.—Two credits; spring. Vickner.

For courses in foreign literature taught in English, see Department of General Literature.

## FISHERIES

## Fisheries Hall

*Professors Cobb, Kincaid; Assistant Professors Parks, Crawford; Instructor Jarvis.*

1, 2. *Introduction to Fisheries*.—General review and history of the world's fisheries. Two credits a quarter; autumn, winter. Cobb.

6. *Pacific Fisheries*.—General review and history of fisheries of the countries bordering on the Pacific Ocean. Two credits; spring. Cobb.

30. *Food Laws*.—Study of federal, state and foreign laws regulating the sale of food products. One lecture a week. One credit; winter. Parks.

50. *Elements of Fisheries*.—Fishery science, stressing economic and cultural aspects of the subject. Lectures, demonstrations, and occasional trips. Offered only to students not enrolled in the College of Fisheries. Three credits; spring. Jarvis.

53, 54. *Ichthyology*.—Structure, classification and habits of economic fishes. Prerequisite, Zool. 1, 2. Lab. fee, \$3. Five credits a quarter; autumn, winter; spring. Crawford.

60. *Aquatic Animals other than Fish*.—The natural history of aquatic animals other than fish, such as whales, seals, oysters, clams, crabs, etc. Prerequisite, Zool. 1, 2. Fee, \$3. Three credits; spring. Crawford.

101, 102, 103. *Fish Culture*.—Developmental history and artificial propagation of economic fishes, lobsters, etc. Prerequisite, Fish. 54, and Zool. 5. Lab. fee, \$3. (Fish. 101 repeated in spring quarter.) Five credits a quarter; autumn, winter, spring. Crawford.

104, 105. *Fishery Methods*.—Construction and uses of apparatus. Three lectures and two laboratory periods. Lab. fee, \$3. Five credits a quarter; winter, spring. Cobb.

108. *Canning of Fishery Products*.—Commercial methods of canning aquatic animals in either tin or glass. Three lectures and two laboratory periods. Lab. fee, \$4. Five credits; spring. Parks.

110. *Fresh and Frozen Fishery Products*.—Handling, care and transportation of fresh and frozen aquatic animals. Prerequisite, Fish. 54. Three lectures and two laboratory periods. Lab. fee, \$3. Five credits; autumn, spring. Jarvis.

111. *Curing of Fishery Products*.—Commercial methods of curing and preservation, by drying, salting, smoking, spicing, etc., of aquatic animals. Prerequisite, Fish. 110. Three lectures and two laboratory periods. Lab. fee, \$4. Five credits; winter. Jarvis.

**\*\*112. *Oyster and Clam Culture.***—Development and propagation of oysters and clams. Prerequisite, Fish. 60. Lab. fee, \$3. Five credits; autumn.

**115. *The Economic Fishery Resources of North America.***—Fishery resources of the North American continent and adjacent seas, their development and commerce, and government policies of conservation. Three credits; autumn. Cobb.

**130. *Fundamentals of Canning.***—Principles on which canning is based; sterilization, including heat penetration, effect of acid foods on bacteria, and fill of can; exhaust and vacuum, including methods of obtaining, purposes, and effect of temperature and altitude upon vacuum; corrosion of tin plate. Prerequisite, Bact. 101. Lab. fee, \$4. Five credits; autumn. Parks.

**\*\*140. *Aquarium Management.***—Study and care of ornamental fresh water fishes in balanced and running water aquaria. Prerequisite, Bot. 53. Three lectures and three two-hour laboratory periods. Lab. fee, \$3. Five credits; autumn. Crawford.

**147. *Preparation of Secondary Products.***—Manufacture of fish meal, fertilizer, oils, glues, leathers and furs from aquatic animals. Prerequisite, Fish. 108. Three lectures and demonstrations. Three credits; winter. Jarvis.

**150, 151, 152. *Problems in Fish or Shellfish Culture and Fisheries Technology.***—Students with proper preparation, which should include 15 hours in fish culture, or 15 hours in shellfish culture and Fish. 53, 54, 60, or 15 hours in fishery methods and preparation of fishery products, will be assigned special problems to be worked out under the direction of the instructor. Lab. fee, \$1 per credit hour. Five credits a quarter; autumn, winter, spring. Cobb and staff.

**154. *Diseases of Fish.***—Nature and causes of disease in fish. Three lectures and two laboratory periods. Lab. fee, \$4. Five credits; autumn. Guberlet.

**\*\*175. *Exploration of the Sea and its Relation to Economic Food Fishes.***—The influence of various factors in the conditions of life of economic food fishes in the sea. Three credits; spring.

**190. *Fishways and Fishstops.***—The design, construction and uses of fishways and fish-stops. Two lectures and one laboratory period. Senior standing. \$1 per credit hour. Three credits; autumn. Cobb.

**195, 196. *Seminar.***—Assigned readings and reports in current periodical literature. Bibliographical work, discussions and symposiums on subjects of general interest to advanced students in fisheries. Prerequisite, senior or graduate standing in fisheries. Two credits; autumn, spring. Cobb and staff.

#### COURSES FOR GRADUATES

**201, 202, 203. *Research Problems.***—Investigation of assigned problems. Open to qualified graduates after consultation. Credits and time to be arranged; \$1 per credit hour. Autumn, winter, spring. Cobb and staff.

**\*\*Offered if elected by a sufficient number of students.**

FORESTRY AND LUMBERING

Anderson Hall

*Professors Winkenwerder, Kirkland, Clark; Associate Professor Grondal.*

1. *Elementary Dendrology*.—Nomenclature, classification and identification of trees, including all northwest species and one type species of each genus of the important timber trees of North America. Required of freshmen. Two recitations, one quiz and two 3-hour laboratory periods a week, field trips additional. Lab. fee, \$2. Five credits; autumn or spring.

Winkenwerder, Kirkland and assistants.

2. *General Forestry*.—To familiarize the student with the field of work he is about to enter. Required of all freshmen. Three credits; autumn.

Winkenwerder.

3. *General Forestry*.—Continuation of For. 2 but need not be preceded by it. Three credits; winter.

Winkenwerder.

4. *Forest Protection*.—Its economic importance; forest fires, their prevention and control. Required of freshmen. Three credits; spring or winter.

Winkenwerder.

5. *Woodcraft*.—Food and clothing, camp equipment and sanitation. packing a horse, and general woodcraft. One-half of the course is devoted to first aid work. A section will be arranged for students not enrolled in forestry if not less than 12 apply. Two lectures a week; demonstrations and practice work additional. Lab. fee, \$2. Two credits; autumn.

Clark, Kirkland, Hall.

6. *General Forestry*.—For students not majoring in forestry. Prerequisite to all other courses in forestry for non-majors in forestry, offered primarily for business administration students who desire to prepare for work in lumber marketing. Others admitted until section is full. Three credits; winter.

Winkenwerder.

51. *Forest Mensuration*.—Principles and methods of computing, scaling, cruising, mapping; construction of volume tables, taper tables, and form factors. Three recitations, two 3-hour laboratory periods. Prerequisite, Math. 51, C.E. 55. Lab. fee, \$2. Five credits; winter. Clark and assistant.

52. *Forest Mensuration*.—Methods of studying growth in diameter, height and volume; sample plot methods, construction and use of growth and yield tables. Three recitations and two 3-hour laboratory periods. Prerequisite, For. 51. Lab. fee, \$2. Five credits; spring.

Winkenwerder and assistant.

53. *Construction*.—Trails, roads, logging railroads, telephone lines, wooden bridges, cabins, barns, and fences; land clearing, United States Forest Service improvement work, and logging construction. Required of sophomores. Prerequisite, G.E. 21 or C.E. 55. Lab. fee, \$2. Three credits; autumn.

Clark and assistants.

57a. *Silvics*.—Climate, soil and life factors which determine character of forest vegetation. Form and characters of the individual tree. Life history of the forest. Silvical characteristics of tree species. Lectures and quiz. Required of sophomores. Prerequisite, 10 hours botany, For. 1. Three credits; autumn or winter.

Kirkland.

57b. *Field Methods in Silviculture*.—To accompany 57a. One 3-hour laboratory period. Elective. Lab. fee, \$2. One credit; autumn. Kirkland.

58. *Silviculture*.—Regeneration of forests by natural reproduction, seeding or planting. Care of young, middle-aged and older stands. Nursery practice. Required of sophomores. Prerequisite, For. 57a. Lab. fee, \$2. Five credits; spring.

Kirkland.

**101. Wood Technology.**—Wood structure and identification of commercial timbers of the United States; physical properties of woods; kiln drying. Required of juniors. Prerequisite to all courses in forest products; prerequisites, college botany, For. 1, 10 hours chemistry and Physics 1. Lab. fee, \$2. Five credits; autumn. Grondal.

**104. Timber Testing.**—General mechanics, stresses, tests, theory of flexure, moisture and strength; mechanical properties of wood. Required of juniors. Prerequisite, Math. 51-52, 56, For. 101, Physics 1 and 2. Lab. fee, \$2. Five credits; winter. Grondal.

**105. Wood Preservation.**—Nature of decay of timber; methods and economics of preservation. Laboratory work with the college treating plant and reports on local creosoting plants. Required of juniors and graduates. Prerequisites, For. 101 and ten hours of chemistry. Lab. fee, \$2. Three credits; winter. Grondal.

**110. Characteristics of Trees.**—Identification, distribution, life habits, and uses of trees of the Pacific Northwest. Offered only to students not enrolled in forestry. Two lectures weekly and occasional field trips. Two credits; spring. Winkenwerder.

**119. Forest Administration.**—Objects, principles and methods of administering private and public forests and forest industries. Three credits; autumn. Kirkland.

**126. Forest Economics.**—Forests of the United States, their uses and relation to other industries and resources. Statistics of production and consumption. Required of juniors or seniors in forestry and open to students in other departments. Prerequisites, B.A. 1 or 3. Three credits; winter. Kirkland.

**151. Forest Finance.**—Mathematics of forest finance and operations; cost of growing timber; valuation of land for forest production. Required of students in senior or graduate year. Prerequisites, For. 52 and 58. Three credits; autumn. Kirkland.

**152. Forest Organisation.**—Principles of forest organization and regulation of the cut; advantages of foresight and planning in forest operations for a term of years; sustained yield management of forests; forest working plans. Required of students in senior or graduate year. Prerequisite, For. 151. Three credits; winter. Lab. fee, \$2. Kirkland.

**153. General Lumbering.**—Comparative methods of lumbering on the Pacific Coast and in other lumbering regions of the United States. Prerequisite to all courses in logging and milling. Required of juniors. Five credits; autumn. Clark.

**157. Lumber and Its Uses.**—Wood structure, leading to identification of local species; physical and mechanical properties of wood. Primarily for business administration students (not open to students majoring in forestry). Three credits; winter. Grondal.

**158. Forest Utilization.**—Pulp and paper manufacture, tannic acid, naval stores and other secondary forest products; lumber and its economic uses in construction. Required of juniors and graduates. Prerequisite, For. 101, and 10 hours of chemistry. Five credits; spring. Grondal.

**160, 161, 162. Forest Investigations.**—The object of this course is to enable students to prepare themselves for work in certain special fields for which the College of Forestry offers no regular courses, such as grazing, city forestry, tree surgery, forest recreation, etc. Credits to be arranged any quarter. Instructor assigned according to nature of work. Registration in this course subject to the approval of the dean of the college. Lab. fee, \$3. Winkenwerder, Grondal, Kirkland.

183. *Milling*.—The sawmill; yard arrangements; practical operation, practical problems at local sawmills. For seniors and graduates. Prerequisites, M.E. 82, For. 104, 153, 158. Five credits; autumn. Grondal.

184. *Manufacturing Problems*.—Technical trade requirements, routine of sawmill practice; relation of waste to marketing; lumber grades and their uses. Exports. Required of all students specializing in milling and marketing. Prerequisites, For. 183, B.A. 56, B.A. 65. Three credits; spring. Grondal.

185-186-187. *Logging Engineering*.—Logging machinery and equipment, organization of logging companies, construction of railroads, camps, etc. Lectures, demonstrations at plants manufacturing logging machinery, and field work in nearby logging camps. During the third quarter all the work is transferred to the field, where extensive work in logging engineering is conducted. No credit is given for courses 185 and 186 unless followed by 187. Primarily for seniors and graduates. Required of all students specializing in logging engineering. Prerequisites, For. 52, 53, 58, 104, 153, M.E. 82 C.E. 22. Lab. fee for 187, \$3. Four credits a quarter, autumn and winter. Sixteen credits; spring. Clark.

188, 189. *Advanced Forest Products*.—Advanced studies in wood technology and utilization, with individual problems. A laboratory course. Prerequisite, For. 101, 158. Lab. fee, \$3. Five credits; winter, spring. Grondal.

190. *Advanced Wood Preservation*.—Continuation of For. 105. Design, construction and technical operation of wood preserving plants. Methods of analysis and evaluation of wood preservatives. Required of all students specializing in forest products. Prerequisite, For. 189. Lab. fee, \$2. Three credits; spring. Grondal.

194. *Seminar*.—Review and advanced work in dendrology, mensuration, silviculture and lumbering. Prerequisites, For. 52, 58, 151, 153. Three credits; winter. Winkenwerder, Kirkland, Clark.

196. *Forest Management*.—Continuation of Forestry 152. Lectures, assigned readings and extensive field work on large size tracts of timber. Required of all students majoring in forest management. Prerequisites, For. 119, 152, 194. Lab. fee, \$3. Eight credits; spring. Kirkland.

#### COURSES FOR GRADUATES ONLY

201. *Forest Geography*.—Advanced dendrology. Silvicultural regions, their relation to regional industrial development and general problems of lumbering and management. Three credits; autumn. Winkenwerder.

202. *Thesis*.—Autumn, winter, or spring; three to six credits per quarter, total requirement nine credits. Instructors assigned according to nature of work. Staff.

208, 209. *Seminar*.—Reviews, assigned readings, reports, and discussions on current periodical literature and the more recent Forest Service and state publications. Two credits a quarter; autumn, winter. Kirkland, Winkenwerder.

213, 214, 215. *Research*.—Ample opportunity is offered for advanced research in any of the special phases of forestry. Credits to be arranged; any quarter. Instructors assigned according to nature of work. Lab. fee, \$3. Staff.

221. *Forest History and Policy*.—Forest policy of the United States; forestry in the states and island possessions; the rise of forestry abroad. Three credits; autumn. Kirkland.

223. *Advanced Forest Management*.—About one week of field work on

a tract of 50,000 to 100,000 acres. Formation of a working plan for regulation of the yield and organization of all forest work on the area, with estimates of outlay and income. The basic field data are supplied. Eight credits; spring. Kirkland.

224. *Advanced Milling and Marketing*.—Sawmill design and a detailed study of special problems in sawmill operation and management. Five credits; spring. Grondal.

#### GENERAL ENGINEERING

##### Education Hall

*Assistant Professors Wilcox, Collier, Warner; Instructors Amalleff, Chittenden, Hawthorn, Van Horn, Farquharson, Robinson, Smith.*

1. *Engineering Drawing*.—Lettering; engineering sketching, fundamental principles of working drawings. Lab. fee, \$2. Three credits; autumn, winter, spring. Warner.

2. *Engineering Drawing*.—Use of instruments; reading of drawings; detail and assembly drawings; tracing, standards and conventions. Prerequisite, G.E. 1. Three credits; autumn, winter, spring. Warner.

7. *Engineering Drawing*.—A special short course for Forestry and Fisheries. Lettering, use of instruments, orthographic projection, working drawings and tracings. Lab. fee, \$2. Three credits; winter, spring. Warner.

11. *Engineering Problems*.—Training in methods of attacking, analyzing and solving engineering problems. Coaching in proper methods of work and study, including training in systematic arrangement and clear workmanship. Deal principally with the dynamic side of the problems. Three credits; autumn, winter, spring. Wilcox, Amalleff.

12. *Engineering Problems*.—Continuation of the work in G.E. 11, most of the time being devoted to statics and mechanics of materials. Prerequisites, G.E. 1, G.E. 11 and Math. 51. Should be preceded or accompanied by Math 52. Three credits; autumn, winter, spring. Wilcox, Amalleff.

13. *Engineering Problems*.—Detailed analysis and solution of engineering problems dealing with space and dimensions by the use of drafting room methods. Descriptive geometry. Prerequisites, G.E. 1 and G.E. 2. Three credits; autumn, winter, spring. Warner, Wilcox.

21. *Plane Surveying*.—Surveying methods, instruments, computations, mapping, U.S. public land surveys. Prerequisites, G.E. 1, 2 and Math. 51. All freshman engineers. Lab. fee, \$2. Three credits; autumn, winter, spring. Van Horn, Hamilton, Wilcox.

#### GENERAL LITERATURE

##### Denny Hall

*Committee in charge.—Dean Thomson; Professor Benham; Associate Professor Stone; Assistant Professors DeVries, Griffin.*

*Advisers.—Associate Professor Stone; Assistant Professor DeVries.*

A major in General Literature requires a reading knowledge of two foreign languages, General Literature 101, 191, 192, 193, and sufficient other courses to make a total of from 36-60 credits.

In preparation for this major and for General Literature 101, the stu-



dent should earn 18 lower division credits from the following groups with not more than ten hours in any one group.

- I. Greek 15-16.
- II. Oriental Studies 50, 51, 52, 70, 71, 80.
- III. English 64, 65, 66, 80, 98.
- IV. German 70, 106, 107, 108, Scandinavian Languages, 109, 110, 111, 180, 181, 182.
- V. French 118, 119, 120, Spanish 118, 119, 120, Italian, 118, 119, 120.
- VI. Liberal Arts 11, Philosophy 123.

The upper division courses listed above may be entered by qualified sophomores who have obtained the permission of the instructors.

The remaining courses offered for this major should be arranged in consultation with a major adviser. The plan of work should include a survey of at least one national literature, some studies in each of the following groups, and a special knowledge of one of these groups.

- I. Oriental Literature.
- II. Greek and Latin Literature.
- III. Medieval and Renaissance Literature.
- IV. Classic and romantic movements in modern literature.

*101. Introduction to Theory of Literature.*—The relation of literature to life in the light of recent psychological, philosophic, and social scholarship. (May receive credit in English.) Five credits; autumn and spring. DeVries.

*191, 192, 193. Major Conference.*—Individual conference to correlate studies and for guidance in individual reading. Each student is expected to meet his instructor once a week in conference. Three credits; autumn, winter, spring. Stone, DeVries.

## GEOLOGY

Science Hall

*Professors Landes, Weaver; Associate Professor Renner; Assistant Professor Goodspeed*

Courses in the department are grouped to lead into different fields of geological work, as follows:

General Geology: Courses 1a-9, 100-109, 200-209.

Geography, Climatology, and Physiography: Courses 10-19, 110-119, 210-219.

Mineralogy, Petrography and Economic Geology: Courses 20-29, 120-129, 220-229.

The year in geology for Liberal Arts and Business Administration students may be satisfied by the following combinations: Courses 1a, 1b and 2; 1a, 1b and 11; 10 and 11; 1a, 1b and 112.

To satisfy a science requirement, courses 1a and 1b may be taken the same quarter, or 1a must be taken first, followed by 1b. As free electives, credit will be given if these courses, 1a and 1b, are taken separately.

*1a. General Geology.*—Materials of the earth, rocks, minerals, and rock structure. Lectures and laboratory work with occasional half-day field trips. Lab. fee, \$1. Three credits; autumn, winter, spring. Goodspeed.

*1b. General Geology.*—Geological agencies and processes affecting the earth's surface. Lectures and laboratory work with occasional half-day field trips. Lab. fee, \$1. Two credits: autumn, winter, spring. Landes.

2. *General Geology*.—Historical. Continuation of courses 1a and 1b dealing with the origin and evolution of the earth. Lectures and laboratory work, with some field excursions. Prerequisite, Geol. 1a, 1b. Lab. fee, \$2. Five credits; autumn, winter, spring. Weaver.

4. *Principles of Geology*.—Historical. The earth's origin and the general history of the continent. For College of Mines students only. Lectures, recitations and field trips, without laboratory work. Prerequisite, Geol. 1a, 1b. Three credits; spring. Weaver.

10. *Modern Geography*.—Problems of modern geography; scientific investigation of geographic environment and its influence; use of maps and charts; geographic control of production and trade; major geographic features of the continents. Lab. fee, \$1. Five credits; autumn. Renner.

11. *Weather and Climate*.—Weather elements and controls; causes and effects of atmospheric conditions; principles and methods of weather forecasting and use of instruments. Lab. fee, \$1. Five credits; winter. Renner.

21. *Mineralogy*.—Crystallography, followed by descriptive mineralogy and blowpipe methods. Prerequisite, Geol. 1a, 1b, and at least a high school course in chemistry. Lab. fee, \$2. Five credits; winter. Landes.

101. *History of Geology*.—The rise of geology as a science, the men who were its founders and the wealth of literature available to the student. Prerequisites, Geol. 1a, 1b and 2. Three credits; autumn. Landes.

105. *Geology for Engineers*.—Survey of the field of general geology for the special needs of students in civil, electrical, or mechanical engineering. Prerequisite, junior standing in the College of Engineering. Lab. fee, \$2. Five credits; winter. Goodspeed.

107. *Geology of Washington*.—Lectures with assigned readings and laboratory study. Prerequisite, one quarter of general geology. Three credits; spring. Landes.

111. *Climatology*.—Broader aspects of climatic controls and characteristics of different climates and climatic provinces, with special reference to United States and the Pacific Coast. Prerequisite, Geol. 10 or 11 or equivalent work. Three credits; spring. Renner.

112. *Physiography of the United States*.—Physiographic regions of the United States and their effects on development and history of the country. Prerequisite, Geol. 10 or Geol. 1a and 1b. Lab. fee, \$1. Five credits; autumn. Renner.

113. *Physiography of Europe*.—Physiographic regions of Europe and effects of topography and climate on development and relations of different countries. Lectures and map study. Prerequisite, Geol. 10 or Geol. 1a and 1b. Five credits; winter. Renner.

\*116. *Economic Geography of Washington*.

117. *Geography of Asia*.—Study of the continent by natural regions based on geography, topography and climate. Three credits; spring. Renner.

118. *Geography of South America*.—Physiographic and geologic features, climate and resources of the continent and their effects on development and relations of different countries. Three credits; spring. Renner.

\*Not offered in 1927-1928.

120. *Petrology*.—Rocks, their components, occurrence, and structural relations. Occasional field trips. Lab. fee, \$2. Prerequisite, Geol. 1a, 1b and 21. Three credits; spring. Goodspeed.

121. *Advanced Mineralogy*.—Opaque, metalliferous minerals studied with the reflecting microscope, or "mineragraphy;" relation of the latter to geological, mining and metallurgical problems. Prerequisite, Geol. 123. Three credits; autumn. Goodspeed.

122. *Field Methods*.—Principles and methods of geologic surveying and mapping. Detailed field work in small areas, with field trips. Prerequisite, Geol. 1a, 1b, 2, 21 and 120. Two credits; spring. Goodspeed.

123. *Optical Mineralogy*.—Use of the polarizing microscope in the examination of minerals and rocks in thin sections. Prerequisite, Geol. 1a, 1b and 120. Lab. fee, \$2. Three credits; autumn. Goodspeed.

124. *Petrography*.—Principles of petrography and petrographic methods in the systematic study of igneous, sedimentary and metamorphic rocks. Prerequisite, Geol. 123. Lab. fee, \$2. Four credits; winter. Goodspeed.

125. *Advanced Petrography*.—Continuation of the work in petrography with special reference to sedimentary petrography. Prerequisite, Geol. 124. Two credits with additional credits optional; spring. Goodspeed.

126. *Economic Geology*.—Economic deposits of the principal non-metallic minerals, their production and uses. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b and 21. Three credits; autumn. Landes.

127. *Economic Geology*.—Economic deposits of the chief metallic minerals, their production and uses. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b, 21 and 124. Five credits; winter. Landes.

128. *Economic Geology*.—Petroleum fields of the world. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b. and 2. Three credits; spring. Landes.

\*130. *Economic Geology*.

131. *General Paleontology*.—Principles of paleontology and a general systematic study of fossils. Prerequisite, Geol. 2. Lab. fee, \$2. Five credits; winter. Weaver.

132. *Invertebrate Paleontology*.—A study of the more important type fossils of each geologic period. Prerequisite, Geol. 131. Lab. fee, \$2. Five credits; spring. Weaver.

140. *Structural and Stratigraphic Geology*.—Certain structural and stratigraphic features, and their practical applications. Prerequisites, Geol. 2, 120, and 122. Three credits; autumn. Weaver.

*Teachers' Course in Geology*.—See Educ. 160F.

#### COURSES FOR GRADUATES ONLY

200. Field studies or advanced work in general geology. Credits and hours to be arranged. Each quarter. Staff.

210. Advanced or research work in geography, climatology or physiography. Credits and hours to be arranged. Each quarter. Renner.

220. Advanced or research work in mineralogy, petrography and metamorphism. Credits and hours to be arranged. Each quarter. Goodspeed.

225. Advanced or research work in economic geology. Credits and hours to be arranged. Each quarter. Landes.

230. Advanced or research work in paleontology and stratigraphy. Credits and hours to be arranged. Each quarter. Weaver.

#### GERMANIC LANGUAGES AND LITERATURE

##### Home Economics Hall

*Assistant Professor Eckelman and Lecturer Meisnest; Associates Wesner and Terzieff; Assistant Ankele.*

Requirements for a departmental major: at least 35 hours in the department chosen from courses other than German 1, 2, 3. At least 50 per cent of the hours in the major must be in upper division courses. For the departmental or academic major, who wishes a recommendation to teach: the same, including German 110, Educ. 160G and at least nine credits in literature.

Credit is allowed for any quarter in any course except 1-2. The following courses may be repeated with full credit (due to change of subject matter: 115, 116, 180, 181, 182.

All courses are conducted in German unless otherwise specified.

1-2. *First Year*.—Stage pronunciation, grammar, reading of easy prose and verse, conversation. Five credits a quarter; autumn, winter, spring.

Eckelman, Meisnest, Wesner, Terzieff, Ankele.

3. *First Year Reading*.—Reading of modern prose, conversation, composition, continuation of grammar. Prerequisite, Ger. 1-2 or one year in high school. Five credits a quarter; autumn, winter, spring.

Meisnest, Wesner, Terzieff, Ankele.

5. *Second Year Reading*.—Pronunciation, vocabulary building, reading of modern prose, simple conversation. Prerequisite, Ger. 3 or two years high school. Three credits; autumn, winter, spring.

Meisnest, Ankele, Terzieff.

6. *Second Year Rapid Reading*.—Modern prose, vocabulary building, simple conversation. Prerequisite, Ger. 5 or 10; Ger. 3 Grade A, or on consent of instructor. Three credits; winter.

Terzieff.

7. *Second Year Rapid Reading*.—Modern prose, vocabulary building, simple conversation. Prerequisite, Ger. 5 or 6 or 10 or 11. Two credits; spring.

Terzieff.

10, 11, 12. *Second Year Review Course*.—Modern prose, grammar review with emphasis on syntax, simple conversation. Prerequisite as for German 5. Two credits, autumn, winter; three credits, spring.

Tezieff, Wesner.

60, 61. *Lower Division Scientific German*.—Introduction to chemical German. Class work. Suitable outside reading. Vocabulary building. Prerequisite, Ger. 5, or 10 or 11; Ger. 3 Grade A or B, or combinations with consent of instructor. Three credits; autumn, winter; two credits, spring.

Eckelman, Wesner.

70. *German Literature in Translation*.—The best novels of the nineteenth century. A study of representative writers and of the forces that molded their work. Lectures, discussion, written reports. No knowledge of German required. Three credits, spring.

Eckelman.

100. *Schiller*.—Life and dramatic works. Jungfrau von Orleans. Don

Carlos or Wallenstein. Discussion, oral and written reports. Prerequisite, three years high school or eight credits second year work. Three credits; autumn. Meisnest.

\*104. *Recent Writers.*

106. *German Literature in Translation.*—Goethe, the poet. An introductory study primarily of his lyrics, the approach to an understanding of the personality of the artist. Lectures, discussion, written reports. No knowledge of German required. Three credits, autumn. Eckelman.

107. *German Literature in Translation.*—The contemporary short story, novel, and *Bildungsroman*. Helene Boehlau, L. Thoma and others; J. Wassermann, Thomas Mann. No knowledge of German required. Two credits; spring. Eckelman.

108. *German Literature in Translation.*—The drama, primarily of the nineteenth century. The forerunners of Ibsen in Germany; Hauptmann; the post-war expressionism. A study of post-classical conceptions of the tragic. Lectures, discussion, written reports. No knowledge of German required. Two credits, winter. Eckelman.

110. *Advanced Composition and Phonetics.*—Grammar and syntax, translation and original composition, oral work, letter writing, themes, stage pronunciation. Prerequisite, three years high school or eight credits second year work. Three credits, winter. Meisnest.

115, 116. *Upper Division Scientific German.*—Scientific essays, monographs, technical periodicals. Each student does private reading in his own field under guidance of the instructor and major professor. Conferences. Prerequisite, Ger. 5 and 10, 60 or 61, or three years in high school. Two or three credits a quarter; winter, spring. Eckelman, Meisnest.

118. *German Prose Reading.*—From the best prose and dramatic works. Heine's *Harsreise*, Goethe's *Hermann und Dorothea*. Discussion, oral and written reports. For majors and advanced students. Three credits, autumn. Eckelman.

\*119-120. *German Prose Reading.*

\*121. *Phonetics.*

\*130-131-132. *German Institutions.*

\*133-134-135. *Modern Novels.*

\*136. *Modern Drama.*

\*140. *Studies in German Literature.*

142. *Lyrics and Ballads.*—Goethe. The Romanticists. Uhland, Heine, Mörike, Storm. Schiller's ballads. Class reading and assigned topics. Prerequisite, as for Ger. 100. Three credits; winter. Eckelman.

\*151. *Lessing.*

153. *Goethe's Dramatic Works.*—*Goetz von Berlichingen*, *Tasso*. Discussion, oral and written reports. Prerequisite, three years high school or eight credits second year work. Two credits; spring. Ankele.

180, 181, 182. *Nineteenth Century Literature.*—The drama and novel to 1880. Kleist, Grillparzer, Hebbel, Ludwig, Raabe, Keller, Storm, C. F.

\*Not offered in 1927-1928.

Meyer. Primarily for graduates. Three credits; exceptional students may earn six credits; autumn, winter, spring. Eckelman.

\*200-201-202. *Goethe's Lyrics and Letters.*

\*203-204-205. *Storm and Stress Period.*

\*206-207-208. *Romantic School.*

\*220-221-222. *Inter-relations of German and English Literature.*

\*250-251-252. *History of the German Language.*

\*253. *Middle High German.*

\*256-257-258. *Gothic.*

259. *Old Saxon.*—Study of the dialect and the Old Saxon *Heliand*. Three credits; winter. Eckelman.

*Teachers' Course in German.*—See Edu. 160G.

#### COMPARATIVE PHILOLOGY

The following courses in Comparative Philology are available in the department of Scandinavian Languages and Literature:

190-191. *Introduction to the Science of Language.*—Two credits; autumn, winter. Vickner.

192. *Life of Words.*—Two credits; spring. Vickner.

#### HISTORY

Denny Hall and Philosophy Hall

*Professors Meany, Richardson; Associate Professor McMahon; Assistant Professors Lucas, Creer; Instructors Quainton, Dobie; Associates Buchanan, Dahlin; Professor Gowen and Assistant Professor Griffin of the Department of Oriental Studies.*

#### Requirements of the Department

The University requirements in history may be satisfied by one of the following courses:

Medieval and Modern European History (1-2). It is desirable that this course be selected in fulfillment of the history requirements and that it be taken in the freshman year. It is repeated each quarter.

History of the United States (57-58-59). Primarily for sophomores.

English Political and Social History (5-6). Open without prerequisites to freshmen, sophomores and upperclassmen.

Ancient History (71-72-73). Open without prerequisites to sophomores and upperclassmen.

For a major at least fifty per cent of the credits in the department must be obtained in courses carrying upper division credit. Course 1-2 is required of all history majors.

It is recommended that all history majors shall take in excess of departmental requirements additional work in history and in certain related fields such as political and social science, modern foreign languages and literature, English and American literature, and philosophy. Selection should be made, under advice, among the following courses and sequences in correlated fields:

*I. Political and Social Sciences.*—Anthropology, (one of the following) 51, 101, 110, 185; Economics and Business Administration, 1, 103, 127; or 1, 61, 162; or 1, 160, 168; or Geology 10, followed by Economics 7; Political Science 1, 111; or 1, 112; or 151, 152, 153; Sociology 1, 150; Zoology 16.

*II. Language and Literatures.*—English 134, to be taken in correlation with History 5-6 and to be followed by English 137; English 67, 68, 69; or 161, 162, 163; or 164, 165, 166, in correlation with American history courses.

Survey courses in foreign languages: French 118, 119, 120; German 106, 107, 108; Italian 184; Scandinavian 109, 110, 111; or 180, 181, 182; Oriental Studies 116, which correlates with ancient and medieval history courses.

Medieval Latin (Latin 153) is desirable for those who intend to study history for advanced professional purposes, and, in general, a reading knowledge of the basic language in the chosen field is indispensable for satisfactory graduate work.

*III. Philosophy.*—Philosophy 2 or 101-102-103.

Prospective teachers of history as a major subject in high schools who desire the recommendation of the department of history must become acquainted with the elementary facts requisite for the teaching of all courses in history and civil government taught in the high schools of the state, and have specialized knowledge in their chosen fields. Courses in history, government and economics should be elected with this aim in view.

Prospective high school teachers of history should bear in mind that since Oriental History is not as yet offered in the high schools such courses should be treated as electives rather than as major courses in preparation for the normal diploma or positions as teachers.

*1-2. Medieval and Modern European History.*—General survey from the Roman world empire of Augustus to our own times. Five credits a quarter; autumn, winter, spring. Lucas, Creer, Quainton, Dobie, Buchanan.

The above course is repeated beginning with the winter quarter.

*5-6. English Political and Social History.*—Political, social economic and intellectual development of the English people from the Saxon conquest to the present time. Five credits a quarter. By special work under direction of the instructor upper division students may receive upper division credit. Autumn, winter. Richardson.

*8. Westward Movement in the U.S. to 1812.*—The advance of the frontier and its effect on American ideals from the colonial period to the war of 1812. Two credits; autumn. Dahlin.

*9. Westward Movement in the U.S., 1812-1860.*—The frontier from the war of 1812 to the civil war. Two credits; winter. Dahlin.

*10. The Agrarian Crusade in the U.S., 1860-1924.*—The agrarian movements for control, their causes and results. Two credits; spring. Dahlin.

*25. Introduction to History of Asia.*—A resume of the main currents of human movement in the history of the continent of Asia. Five credits; autumn. Gowen.

*57-58-59. History of the United States.*—A general survey with emphasis on political and economic history. Not open to freshmen. Three credits a quarter; autumn, winter, spring. McMahon.

*60. Makers of the Nation.*—Period of Revolution and the Constitution. Two credits; autumn. Meany.

'61. *Makers of the Nation*.—Period of the Monroe Doctrine and Boundary settlements. Two credits; winter. Meany.

62. *Makers of the Nation*.—Period of National Development. Two credits; spring. Meany.

71-72-73. *Ancient History*.—History of the ancient Mediterranean world, Greece and Rome. By special work under direction of the instructor upper division students may receive upper division credit. Not open to freshmen.. Three credits a quarter; autumn, winter, spring. Creer.

75-76. *History of China*.—Evolution of the Chinese people; cultural and institutional factors; and contemporary China with reference to these. In this course and in the History of Japan (Hist. 78-79) attention is paid to the history of Chosen (Korea). Prerequisite: ten credits in college history, or Oriental Studies 40-41. Five credits; winter, spring. Gowen, MacNair.

78-79. *History of Japan*.—See above, Hist. 75-76. Five credits; winter, spring. Griffin.

81. *England Since the Accession of George I*.—Construction of the British commonwealth, Imperial problems, internal economic and institutional developments, growth of democracy. Prerequisite, Hist. 1-2 or 5-6. By special work under the direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Two credits a quarter; spring. Quainton.

*\*85. Medieval Civilization: The Dark Ages.*

86. *Medieval Civilization, 1000-1250*.—Thought, art, commerce, industry, religion and politics. By special work under the direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Prerequisite, Hist. 1-2. Five credits; autumn. Lucas.

101. *Alexander the Great: His Empire and His Successors*.—Three credits; autumn. Creer.

102. *Greek Federal Leagues: Their History and Institution*.—Three credits; winter. Creer.

*\*103. The Roman Republic.*

104. *The Roman Empire from Augustus to Justinian*.—Three credits; spring. Creer.

105-106-107. *English Constitutional History*.—Development of legal and governmental institutions of the English people to the present time. Valuable for students of political science and law as well as history. Prerequisite, Hist. 5-6, except for upper division students who are majoring in economics, sociology and political science, or who are taking 5-6. Open to pre-law sophomores who have taken 5-6 in freshman year. Pre-law sophomores who elect this course and have not taken 5-6 are required to take Hist. 108-109-110. Three credits a quarter; autumn, winter, spring. Richardson.

108-109-110. *English Political History, Pre-law*.—Open only to pre-law sophomores and majors in political science, economics and history who are taking Hist. 105-106-107. All pre-law sophomores who are taking 105-106-107 and who have not taken 5-6 or are not taking it, are *required* to take this course. Two credits a quarter; autumn, winter, spring. Richardson, Buchanan.

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\*Not offered in 1927-1928.



\*111. *Greek Political Institutions.*

114. *The Renaissance.*—Thought, art, religion and politics from St. Thomas to Machiavelli. Prerequisite, Hist. 1-2 or 5-6. Five credits; winter. Lucas.

115. *The Reformation.*—The disruption of the Medieval Church through the rise of Anabaptism, Lutheranism, Calvinism, etc. Prerequisite, Hist. 1-2 or 5-6. Five credits; spring. Lucas.

\*117. *France from the Reformation to the French Revolution.*

121-122-123. *Prussia and Northern Europe in the 17th and 18th Centuries.*—Sweden as a great power, its rise, progress and decline; the rise of Russia and Prussia; the partition of Poland; and the beginnings of the Eastern Question. Special attention is paid to the economic, political and military development of the Prussian state from foundation through Frederick the Great. Prerequisite, Hist. 1-2. Two credits a quarter; autumn, winter, spring. Richardson.

125. *Turkey and the Near East, 1453-1925.*—The Near Eastern question; the rise, expansion and decline of the Ottoman Empire; the awakening and development of the Balkan peoples. Prerequisite, Hist. 1-2, or 131. Five credits; spring. Quainton.

129. *The French Revolution and Napoleonic Era.*—Prerequisite, Hist. 1-2. Five credits; autumn. Quainton.

130. *Europe, 1814-1870.*—Prerequisite, Hist. 1-2. Five credits; winter. Quainton.

131. *Europe Since 1870: The War and its Background.*—Historical background, fundamental causes and progressive development of events and issues in the world war. Five credits; spring. Richardson.

139. *The Southern Colonies.*—Open only to juniors, seniors, and graduates. Three credits; autumn. Dahlin.

140. *The New England Colonies.*—Open only to juniors, seniors, and graduates. Three credits; winter. Dahlin.

141. *American Revolution.*—Open only to juniors, seniors and graduates. Three credits; spring. Dahlin.

143. *History of the United States, 1789-1815.*—Open only to juniors, seniors, and graduates. Three credits; autumn. McMahon.

144. *History of the United States, 1815-1846.*—Open only to juniors, seniors, and graduates. Three credits; winter. McMahon.

145. *History of the United States, 1846-1860.*—Open only to juniors, seniors, and graduates. Three credits; spring. McMahon.

147. *History of the Civil War Period.*—Open only to juniors, seniors and graduates. Three credits; autumn. McMahon.

148. *History of the Reconstruction Period.*—Open only to juniors, seniors and graduates. Three credits; winter. McMahon.

149. *History of National Development.*—Development of the American nation from the close of the reconstruction period to the present time. Open to juniors, seniors, graduates. Five credits; spring. McMahon.

153. *The Pacific Rim.*—History of the countries bordering upon the

\*Not offered in 1927-1928.

Pacific Ocean with especial reference to recent changes. Open to juniors, seniors and graduates. Three credits; autumn. Meany.

154. *Spain in America*.—Rise and fall of Spanish power in America, and an outline of the history of the Spanish-American republics. Open to juniors, seniors and graduates. Three credits; winter. Meany.

155. *History of Canada*.—Canadian development to the present time. Open to juniors, seniors and graduates. Three credits; spring. Meany.

157-158-159. *History of American Diplomacy*.—American relations with foreign powers from colonial times to the present. Open to juniors, seniors and graduates. Two credits a quarter; autumn, winter, spring. Meany.

160. *History in the High School*.—The meaning, value, aims and place of history in the high school curriculum; historical problems. Prerequisite for Educ. 160H. Two credits; autumn. McMahon.

163-164-165. *Northwestern History*.—From the earliest voyage to the Pacific Northwest to the organization of the present form of government. Open to juniors, seniors and graduates. Two credits a quarter; autumn, winter, spring. Meany.

*Teachers' Course in History*.—See Education 160H.

#### COURSES FOR GRADUATES ONLY

201-202-203. *Methods of Historical Research and Criticism*.—The sessions of this class will frequently exceed one hour. One credit a quarter; autumn, winter, spring. Richardson.

\*204-205-206. *Historiography*.

207-208-209. *Problems and Sources of Greek and Roman History*.—Two to five credits a quarter; autumn, winter, spring. Creer.

211-212-213. *Research in European History (1300-1600)*.—Two to five credits. The student must first secure the approval of the instructor. Lucas.

\*215-216-217. *Seminar in English History*.

221-222-223. *Seminar in American History*.—Two credits a quarter; autumn, winter, spring. McMahon.

227-228-229. *Seminar in State History*.—Two credits a quarter; autumn, winter, spring. Meany.

#### HOME ECONOMICS

##### Home Economics Hall

*Professor Raitt; Associate Professor Denny; Assistant Professors Payne, Bliss, Wait, Dresslar, Lusby*

(For curricula in Home Economics see College of Science Bulletin.)

*Food Selection and Preparation*.—Courses 1, 4, 5, 9, 116, 120, 121, 183, 200.

*Nutrition*.—Courses 2, 104, 105-106, 107-108, 190, 191, 204, 205, 206.

*Household Sanitation, Furnishings, Administration*.—Courses 3, 43, 109, 143, 144, 145, 148, 203, 245.

*Textiles and Clothing*.—Courses 8, 25, 101, 102, 112-113, 127, 130, 131, 133, 135, 188, 207, 208, 209, 210, 211, 212.

*Institutional Management.*—Courses 122, 123, 124, 125.

*Home Economics Education.*—Courses 7, 111, 202, Educ. 160I, 160J.

\*1. *Food Preparation.*

\*2. *Elements of Nutrition.*

\*3. *Elements of Home Management.*

4. *Food: Selection and Preparation.*—Credit for cookery in high school exempts students from this course. Three 2-hour periods, recitation and laboratory work. Lab fee, \$6. Three credits; autumn, spring. Bliss.

5. *Food: Selection and Preparation.*—A study of food materials; composition, cost and market conditions as a basis for selection. Principles of food preparation and practice in cookery of such food materials as cereal products, vegetables, fruit, dairy products, meat and fish. Prerequisites, H.E. 4, Chem. 5-6, Physiology 7. Two lectures and three 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Five credits; autumn, winter. Dresslar.

7. *Home Economics Survey.*—Introduction to college work, opportunities offered by the University. The place of home economics, its history, objectives, professional opportunities. Related subjects. Personal accounts and budgets. Two credits; autumn, spring. Raitt.

8. *Clothing.*—Construction of garments requiring hand and machine sewing. Study of materials and design. Comparison with ready-made clothing. Credit for high school clothing exempts students from this course. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$2. Three credits; autumn. Payne.

9. *Food: Selection and Preparation; Elements of Nutrition.*—Composition, principles underlying cookery; nutritive value of foods. Sanitation in relation to market condition and care of food after purchase. Open to student nurses only. Two lectures, one hour quiz and three 2-hour periods, recitation and laboratory practice. Lab. fee, \$6. Six credits; autumn, spring. Dresslar.

25. *Textiles and Clothing.*—Identification and testing fabrics. Economics of the textile industry. Comparative values in all types of clothing Hygiene of clothing. Care and renovation. Clothing budgets. Two lectures and three 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Five credits; autumn, winter, spring. Denny.

43. *Home Sanitation.*—Selection, care and use of equipment. Cleaning and renovation of the materials of the household. Laundering, relation to textiles, equipment, practice. Efficiency studies. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$2. Three credits; winter, spring. Dresslar.

*Foundations of Healthful Living as Related to the Principles of Nutrition.*—(See P.E. 8, 9.) Principles of food and nutrition for various age groups. Sources of material and a study of the application of scientific principles. Autumn, winter, spring.

P.E. 8—One lecture per week. One credit. Bliss.

P.E. 8, 9—Two lectures per week. Two credits. Bliss.

101, 102. *Needlecraft.*—History of lace and needlecraft. Application of principles of design to problems in needlework related to dress and house

furnishings. Prerequisite, H.E. 8 and P.S.D. 9. Two 2-hour periods, recitation and laboratory work. Lab. fee, \$2. Two credits a quarter; winter, spring. Denny.

104. *Nutrition*.—A study of the value of each food material, essentials in the diet. Diet as a factor in the maintenance of health. Open to men only. Of special interest to house managers, pre-medical students, athletes, and men in the colleges of mines, forestry, fisheries, and the department of military training. Lecture and discussion. Two credits; spring. Wait.

105-106. *Nutrition: Elementary Dietetics.—Normal Human Nutrition and Diet for the Sick*.—For nurses, social service students and those wishing to obtain practical knowledge of nutrition as a part of a liberal education. Prerequisites, H. E. 4, Chem. 5-6, Physiology 7. Three lectures, two 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Five credits a quarter; autumn, winter. Wait.

107-108. *Nutrition: Dietetics.—Principles of Human Nutrition*.—Nutritive value of foods, normal and specific physical requirements at different ages, metabolism, food habits, group feeding problems. For teachers of home economics and those who will enter professions related to food and nutrition. Prerequisites, H.E. 5, Chem. 135-136. Pre-medical students, chemistry and physiology majors may enroll with instructor's consent. Three lectures. Two 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Five credits a quarter; autumn, winter. Wait.

109. *Elements of Home Economics*.—Service course for students training for social service. Consideration of household budgets, elements of nutrition and home sanitation. Five credits; winter. Raitt.

111. *Child Care and Development*.—Heredity and eugenics. The psychology of children of pre-school age; physical care; hygiene of clothing. Prerequisites, Psych. 1, Nursing 5, H.E. 25. Prerequisite or parallel, H.E. 105 or 107. A preferred elective for majors in home economics. Field work and excursions on Saturdays. Lab. fee, \$3. Three credits; spring. Kincaid, S. Smith, Soule, Denny.

112-113. *Clothing: Costume Design and Construction*.—Principles of design applied to dress and accessories. Practice in selection and construction. Prerequisite, H.E. 8 and P.S.D. 9. Five 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Five credits a quarter; autumn and winter; winter and spring, respectively. Payne.

116. *Food: Selection and Preparation*.—Continuation of H.E. 5. A study of batters and doughs, meal planning and table service. Two lectures and three 2-hour periods, laboratory practice and recitation. Lab. fee, \$6. Five credits; winter, spring. Dresslar.

\*120. *Food: Advanced Food Preparation*.

121. *Food: Large Quantity Cookery*.—Preparation of food in large quantities for cafeterias, tea rooms, dormitories, hospitals, and camps. Prerequisites, H.E. 116. Laboratory practice. Two lectures, three 3-hour laboratory periods, recitation and laboratory work. Lab. fee, \$3. Five credits; spring. Lusby.

122. *Institutional Buying*.—Marketing, buying, institution food equipment and supplies. Planning menus for dormitories, hospitals, cafeterias and tearooms. Prerequisites, H.E. 5, 116, 106 or 108, 124. Three recitations. Three credits; winter. Lusby.

\*Not offered in 1927-1928.

123. *Institutional Management*.—Problems of various types of institutions, relating to their organization and operation, relation to the state and community, employment of help. Three lectures. Prerequisites, H. E. 5, 116, 107-108, and 122. Three credits; spring. Raitt.

124, 125. *Practice Work*.—Eight hours a week in the University Commons and University dormitories followed by eight hours a week in various institutions under supervision of the instructor. One hour conference a week. Two 4-hour periods or one full day should be arranged in the schedule. Prerequisites, H. E. 116, 106 or 108, Econ. 1. Three to six credits a quarter; autumn, spring. Lusby.

127. *Non-Textiles*.—Merchandise from non-textile sources; paper, leather, rubber, fur, and metals. Raw materials, sources of supply, manufacture, methods of judging. Classification of stores' departmental stock. Three recitations. Lab. fee, \$3. Three credits; winter. Denny.

130, 131. *Clothing: Commercial Clothing Construction*.—Laboratory practice on a commercial basis. Study of trade conditions. Experience in costume shops. Prerequisites, H.E. 113, P.S.D. 9 and 169. Five 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Three credits a quarter; winter and spring. Payne.

133. *Clothing: Costume Design*.—Development of fashion from ancient times to the present with emphasis upon the best art periods. Adaptation to the present mode. Prerequisites, H.E. 113, P.S.D. 169. Three 2-hour periods, two lectures. Lab. fee, \$3. Five credits; spring. Payne.

135. *Millinery*.—Design, selection, practice in construction, renovating, trade methods and materials. Prerequisites, H.E. 8 or equivalent, P.S.D. 9. Three 2-hour laboratory periods, recitation and laboratory work. Lab. fee, \$3. Three credits; autumn. Payne.

143. *Home Furnishing*.—Application of structural art principles to choice and arrangement of household furnishings. Comparative costs. Prerequisite, P.S.D. 9. Two lectures and one 2-hour period, laboratory work, and Saturday excursions. Lab. fee, \$3. Three credits; winter, spring. Denny.

144-145. *Household Management*.—Economics of the household, personal and household accounts and budgets. Organization of the household. Scientific management. Prerequisites, Econ. 1, Soc. 1, junior standing. Two credits a quarter; winter, spring. Raitt.

148. *Practice Cottage*.—Seniors live in practice cottage in groups of three for three weeks. They are responsible for organization of the group, financial management, records, housekeeping, hospitality and meals. Two credits; autumn, winter, spring. Bliss.

183. *Food: Experimental Cookery*.—Attention is given to acquiring correct technique in scientific investigation of problems in connection with food. Prerequisite, H.E. 116. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Three credits; spring. Dresslar.

188. *Advanced Textiles*.—Historic art fabrics. Intensive study of a modern fabric. Methods of commercial testing. Prerequisite, H.E. 25, Econ. 1. Two 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Two credits; autumn. Denny.

190. *Nutrition: Nutrition of Children*.—Work centers around the University Cooperative Child Nutrition Service. Consultation with physicians and instructor, follow-up case work in homes of the children and visits to

institutions for child care. Prerequisites, H.E. 105 or 107. Two hours recitation, three hours laboratory period, three hours field work. Open to graduate and advanced undergraduate students. Lab. fee, \$2. Four credits; winter, spring. Wait.

191. *Nutrition: Dietotherapy*.—Considerations of particular dietary needs of the sick and convalescent. Relation of certain disorders to nutrition. The function of nutrition as a curative and preventive factor in disease. Prerequisite, H.E. 107. Open to graduates and advanced undergraduates. Three lectures and recitations, one laboratory period. Visits to hospitals. Lab. fee, \$4. Four to five credits; spring. Wait.

*Teachers' Course in Home Economics*.—See Educ. 160I, 160J.

#### COURSES FOR GRADUATES ONLY

200. *Special Food Problems*.—Investigation of local food products. Prerequisites, H.E. 5, 116, 107. Lab. fee, \$1. Three credits. Raitt.

202. *Seminar*.—The present status of home economics education with special reference to the work in the State of Washington. Prerequisites, 30 credits in home economics. Credits to be arranged; autumn, winter. Raitt.

\*203. *Research*.

204, 205, 206. *Research in Nutrition*.—Animal experimentation on some special problem. Open to graduate students. Prerequisites, H.E. 107-108, Chemistry and Physiology majors may take this course with consent of instructor. Hours and credits to be arranged. Lab. fee, \$2 per hour credit; autumn, winter, spring. Wait.

207, 208, 208. *Research in Textiles*.—Prerequisites, H.E. 25, Econ. 1. Credit to be arranged. Lab. fee, \$1 per credit hour; autumn, winter, spring. Denny.

216, 211, 212. *Research in Costume Design*.—Prerequisites, H.E. 112-113, 133. Credit to be arranged; autumn, winter, spring. Payne.

245. *Research in Household Accounts and Budgets*.—Prerequisites, H.E. 144-145, Econ. I. Credit to be arranged; autumn. Raitt.

#### JOURNALISM

##### Commerce Hall

*Professor* \_\_\_\_\_; *Associate Professor* R. W. Jones; *Laboratory Director* Kennedy; *Assistant Professor* Borah; *Instructors* Christian, J. B. Jones.

1. *Journalism as a Profession*.—Survey of newspaper making in its various phases. For freshmen only. Lab. fee, \$1. One credit a quarter; autumn.

51. *News Writing*.—Practice in news writing; study of news sources. Not open to freshmen. Required in the sophomore year of pre-journalism majors. Lab. fee, \$2. Five credits; autumn, winter, spring.

61. *The Community Newspaper*.—Editorial, advertising, and circulation problems peculiar to the community weekly. Not open to freshmen. Required in the sophomore year of pre-journalism majors. Lab. fee, \$1. Three credits; spring. R. W. Jones.

\*Not offered in 1927-1928.

90, 91, 92. *Current Events*.—Current state, national and world movements. One quarter required of majors in journalism. Lab. fee, \$1 a quarter. One credit a quarter; autumn, winter, spring. Christian.

101. *Reporting*.—Study of all types of stories covered by a reporter. Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, \$2. Five credits; autumn, winter, spring. Christian.

104. *Newspaper Administration*.—Newspaper organization and management. Prerequisite, Jour. 51. Two credits; spring. Borah.

105. *The Sporting Page*.—Prerequisite, Jour. 51. Lab. fee, \$1. Two credits; autumn. Christian.

109. *Literary and Dramatic Reviewing*.—Routine work of literary and dramatic editors. Prerequisite, Jour. 51. Two credits; winter. Christian.

115. *Elements of Publishing*.—Head styles; proof-reading; binding; engraving; press work; problems of production. Required of journalism majors. Lab. fee, \$2. Three credits; autumn. Kennedy.

120. *Copy Reading*.—Required of majors in journalism. Prerequisite, Journ. 101. Lab. fee, \$2. Five credits; autumn, winter, spring. J. B. Jones

128. *Work of the Foreign Correspondent*.—Prerequisite, Jour. 101. Lab. fee, \$1. Two credits; winter. Christian.

130. *Fundamentals of Advertising*.—Lab. fee, \$2. Five credits; autumn. R. W. Jones.

131. *Display Advertising*.—Prerequisite, Jour. 130. Lab. fee, \$2. Five credits; winter. R. W. Jones.

133. *Advertising Typography*.—Type families; application of type; advertising type units; type problems. Prerequisite, Jour. 115. Lab. fee, \$2. Five credits; spring. Kennedy.

135. *Publicity*.—General publicity methods. Lab. fee, \$1. Prerequisite, Jour. 51. Two credits; spring. Christian.

136. *Comparative Journalism*.—Prerequisite, Jour. 51. Lab. fee, \$2. Three credits; winter.

138. *History of American Journalism*.—Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, \$2. Five credits; spring. R. W. Jones.

140. *The Business Office*.—Simplified accounting for newspaper plants; business office management. Required of majors in journalism. Prerequisite, Jour. 115. Lab. fee, \$2. Five credits; winter. Kennedy.

145. *Law of the Press*.—Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, \$1. Three credits; spring. R. W. Jones.

150. *Editorial Writing*.—Required of majors in journalism. Prerequisite, Jour. 101 and 120. Five credits; autumn, spring.

160. *Trade Journalism*.—Prerequisite, Jour. 51. Lab. fee, \$1. Five credits; winter. J. B. Jones  
R. W. Jones.

170, 171, 172. *Magazine and Feature Writing*.—Practice in writing special newspaper and magazine articles; study of current magazines and newspaper supplements. Articles are graded according to their probable marketability. Lab. fee, \$2 a quarter. Two credits a quarter; autumn, winter, spring. Borah, Christian.

173. *The Short Story*. Critical appreciation of the short story. Lab. fee, \$2. Three credits; autumn. Borah.

174, 175. *Short Story Writing*.—Prerequisite, Jour. 173. Lab. fee, \$2 a quarter. Three credits a quarter; winter, spring. Borah.

250. *Research in Journalism*.—Admission only by consent of the instructor. Three to five credits; autumn, winter, spring. Staff.

*Teachers' Course in Journalism*.—See Educ. 160K.

## LAW

### Commerce Hall

Professors Schweppe, Martin, Lantz, Goodner, Bissett, Ayer, O'Bryan, Nottelman, Lecturer Beardsley.

#### FIRST YEAR

100. *Agency*.—Wambaugh's Cases, 2nd Ed. Five credits; spring.

103-104. *Contracts*.—Corbin's Cases. Five credits per quarter; autumn and winter. Ayer.  
Lantz.

106-107. *Criminal Law and Procedure*.—Derby's Cases, 2nd Ed., supplemented by Washington Criminal Code and Cases. Three credits per quarter; autumn and winter. O'Bryan.

108-109. *Pleading*.—Harker's Cases on Common Law Pleading, and Sunderland's Cases on Code Pleading, and Washington Code and Cases. Three and five credits respectively; winter and spring. Goodner.

115. *Property I.—Personal*.—Bigelow's Cases. Three credits; autumn. Bissett.

116. *Property II.—Real*.—Bigelow's Cases. Five credits; spring. Bissett.

117-118. *Torts*.—Ames' and Smith's Cases, Pound's Ed. Four credits per quarter; autumn and winter. Ayer.

#### SECOND YEAR

110. *Persons*.—Woodruff's Cases. Three credits; winter. Goodner.

121. *Legal Ethics*.—Costigan's Cases. Two credits; autumn. Goodner.

125-126. *Equity*.—Cook's Cases (one volume edition.) Five credits per quarter; autumn and winter. Nottelman.

128. *Damages*.—Beale's Cases on Damages, supplemented by Washington cases. Three credits; spring. O'Bryan.

129, 130, 131. *Evidence*.—Hinton's Cases. Three credits per quarter; autumn, winter, and spring. Schweppe.

134, 135, 136. *Legal Bibliography; Use of Law Books; and Brief-Making*.—Two credits per quarter; autumn, winter, spring. *Winter quarter required of all second-year students.* Beardsley.

137. *Negotiable Instruments*.—Huffcut's Cases. Three credits; winter. Bissett.

138. *Quasi-Contracts*.—Woodruff's Cases. Three credits; spring. Lantz.

139. *Property III*.—Aigler's Cases. Five credits; autumn. Bissett.

142-143. *Public Utilities*.—Beale and Wyman's Cases. Three credits per quarter; winter and spring. Nottelman.



146, 147. *Sales*.—Woodward's Cases, 2nd Ed. Three credits per quarter; winter and spring. Ayer.

159. *Wills*.—Costigan's Cases. Three credits; autumn. Goodner.

179. *Partnership*.—Gilmore's Cases, supplemented by Washington Cases. Three credits; spring. O'Bryan.

181. *Landlord and Tenant*.—Washington Cases. Three credits; spring. Bissett.

THIRD YEAR

133. *Insurance*.—Vance's Cases. Three credits; winter. Lantz.

145. *Irrigation Law*.—Case book to be selected. Three credits; autumn. O'Bryan.

\*153. *Property IV*.—Kales' Cases on Future Interests.

\*156. *Bankruptcy*.—Holbrook and Aigler's Cases.

\*158. *Mining Law*.—Costigan's Cases.

†161. *Procedure IV*.—Procedure in civil actions in the Superior Court of Washington. Three credits; autumn. Goodner.

†162. *Procedure V*.—Continuation of Procedure IV; and including trials by jury and appeals. Three credits; winter. Goodner.

†163. *Procedure VI*.—Probate proceedings, covering administration of estates, probate of wills, appointment of guardians, etc. Four credits; spring. Goodner.

165. *Admiralty*.—Lord and Sprague's Cases. Three credits; autumn. Lantz.

168. *Conflict of Laws*.—Lorenzen's Cases, 2nd Ed. Five credits; spring. Lantz.

170-171. *Constitutional Law*.—Hall's Cases. Three credits per quarter; autumn, winter. Scheppe.

176. *Mortgages*.—Campbell's Cases. Three credits; spring. Nottelman.

183. *Suretyship*.—Ames' Cases. Three credits; spring. Nottelman.

184-185. *International Law*.—The general principles of international law as developed by custom and agreement, and as exhibited in decisions of international tribunals and municipal courts, diplomatic papers; treaties, conventions, in legislation, in the works of authoritative writers, and in the conduct of nations. Scott's cases. (May receive political science credit.) Three credits a quarter; autumn, winter. Martin.

187-188. *Private Corporations*.—Richards' Cases, 2nd Ed. Three credits per quarter; autumn and winter. Ayer.

191. *Property V: Community*.—Bissett's Cases. Five credits; winter. Bissett.

193. *Trade Regulations*.—Oliphant's Cases. Three credits; spring. Lantz.

196. *Trusts*.—Costigan's Cases. Five credits; autumn. Nottelman.

\*197. *Administrative Law*.—Freund's Cases.

\* Not offered in 1927-28.

† During the second and third years, five hours of class work in the Procedure courses and court room work and attendance outside of class hours may, in the discretion of the instructor, be required for the prescribed credits.

Note.—An average of fifteen hours or credits in each quarter is required, making a minimum total of 135 hours or credits for completion of the law course.

Students are limited to fifteen hours per quarter, except upon special permission of the dean, and payment of an additional fee of \$1 per credit hour in excess of fifteen.

## LIBERAL ARTS

Denny Hall

Professor Cory

1. *Introduction to Modern Thought*.—Especially for lower division students, but open to all, and designed to help students to get their intellectual bearings. Required reading and lectures on the new theories of matter; the making of earth; the origin and nature of life; mind and behavior; utilitarian, ethical and aesthetic values. Five credits. Upper division students may obtain upper division credits on the basis of extra reading and conferences. Repeated autumn, winter and spring. Cory.

\*11. *Introduction to the Study of the Fine Arts*.

214, 215, 216. *Studies in Realism, Literary and Philosophical*.—An attempt to develop from current theories a constructive view. Two to eight credits a quarter; autumn, winter, spring. Cory.

## LIBRARY SCIENCE

Library

*Professors Henry, Smith; Instructors Alfonso, Putnam, Worden, Hall.*

The following courses are open only to students registered in the Library School.

175. *Classification and Subject Headings*.—Decimal classification studied in detail, followed by the survey of Expansive and the Library of Congress classifications. Assignment of book numbers. Use of subject headings and classification and assignment of subject headings to specified books. Three credits; autumn. Alfonso.

176, 184. *Cataloging*.—These courses include lectures, recitations and problems in dictionary cataloging, shelf-listing and alphabetizing. Include ordering, handling and use of Library of Congress printed cards and authorities for the correct entry of books. Lectures on the adaptation of standard rules to the needs of the small library. Three credits; autumn, winter. Alfonso.

177, 185, 193. *Reference*.—These courses give a working knowledge of important types of reference books and develop the power of research. Lectures cover books and methods. Practical problems and work with government documents. Two credits a quarter; autumn, winter, spring. Smith.

192. *Library Economy*.—Ordering, receiving, accessioning and mechanical preparation of books; elementary trade bibliography; correspondence and records. Two credits; spring. Putnam.

194. *Subject Bibliography*.—Preparation of bibliographic lists; lectures on sources and methods of work. Problems cover arrangement and form of entry. Two credits; spring. Smith.

186, 195. *Practice*.—Each student is expected to do 300 hours of practice or laboratory work under expert personal supervision. The practice work is given in both the University Library and the Seattle Public Library and consists of 15 hours per week for twenty weeks. Five credits a quarter; winter, spring.

178. *History of Books and Libraries*.—Lectures, readings and reports. Two credits; autumn. Henry.

187. *Library Organisation and Extension*.—Legalization and organization of a general library system for city, county or state, as the unit of organization. Organization of various types of libraries with varying degrees of equipment. Two credits; winter. Henry.

179, 188, 196. *Book Selection*.—To cultivate taste and good judgment in evaluation of books through a study of the principles of book selection, annotation and book reviewing. Three credits; autumn. Two credits; winter and spring. Worden.

197. *Library Administration and Library Literature*.—Lectures, readings and discussion; on library legislation, local taxation, library budget, and all means of realizing the educational and social functions of the library. Reading and class discussion of literature of libraries and librarianship. Two credits; spring. Henry.

189. *Work with Children and Schools*.—To meet the needs of general library assistants and librarians in charge of small libraries. Principles of book selection with special attention to choice of books for children of various ages. Students read and discuss children's books with these ideals in mind. Two credits; winter. Hall.

198. *Special Lectures by Active Librarians*.—Ten lectures, each on some vital problem of library service or administration, by persons selected because of their experience and success in dealing with the problems treated. One credit; spring.

## MATHEMATICS

Philosophy Hall

*Professors Moritz, Winger, Carpenter; Associate Professor Gavett; Assistant Professors Neikirk, Ballantine, Zanstra, McFarlan; Instructors Mullemeister, Cramlet<sup>1</sup>, Ingram; Associate Jerbert.*

The courses in mathematics are planned to meet the needs of three distinct professions: (1) The teaching of mathematics in high schools; (2) The teaching of mathematics in colleges and universities; (3) Statistical and actuarial occupations.

Suggested courses of study leading to these professions will be found in the College of Science bulletin.

## REQUIREMENTS OF THE DEPARTMENT

For a major in mathematics, 36 credits; including courses 5 and 109.

For an academic minor in the School of Education, 20 credits; including course 6.

Candidates who are not majors in mathematics but wish to teach mathematics as a minor subject must have earned at least 15 credits in mathematics, including courses 4 and 5, before receiving the recommendation of the department.

Major students in mathematics should, if possible, select their courses in mathematics in the following order: Math. 4, 5, 6, 107, 108, 109. In addition they should elect physics as their freshman science and take solid geometry (Math. 2) in their freshman year.

1. *Advanced Algebra*.—Algebra from quadratics on. Prerequisite, one year of high school algebra. Five credits; autumn, winter, spring.

<sup>1</sup>Absent on leave 1927-28.

2. *Solid Geometry*. Prerequisite, one year of plane geometry. Five credits; autumn, winter, spring.

4. *Plane Trigonometry*.—For students in the Colleges of Liberal Arts, Science, Education, Fisheries, Law, and Pharmacy. Prerequisites, one and a half years of algebra and one year of plane geometry. Five credits; autumn. Winger, Mullemeister.

5. *College Algebra*.—Prerequisite, Math. 1 or one and one-half years high school algebra. Five credits; winter. Winger, Mullemeister, Cramlet.

6. *Analytic Geometry*.—Especially for students in the Colleges of Liberal Arts and Science. Prerequisites, Math. 1 and 4. Five credits; spring. Winger, Mullemeister.

11. *Theory of Investments*.—Primarily for commerce students. Interest and annuities; annuities, amortization, capitalization and depreciation, sinking funds, etc. Prerequisite, one year algebra, one year geometry. Five credits; autumn, winter, spring.

13. *Elements of Statistical Method*.—Fundamental methods of statistical investigation and interpretation, with applications to problems in social, natural, economic and business fields. Emphasis will be given to critical examination of data, defining of statistical units, properties and appropriate uses of the more common averages and various methods and co-efficients of comparison. Application of various calculating instruments demonstrated. Prerequisite, one year algebra, one year plane geometry. Fee, \$1. Five credits; each quarter. Gavett.

51. *Trigonometry*.—Primarily for engineering, mines and architecture students. Prerequisites, one and one-half years algebra and one year plane geometry. Four credits; autumn, winter, spring.

52. *College Algebra*.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 51. Four credits; autumn, winter, spring.

53. *Analytic Geometry*.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 52. Four credits; each quarter.

54, 55, 56. *Mathematics for Architects*.—Advanced numerical and graphical methods and solution of plane triangles by trigonometric methods. Prerequisite, one and one-half years algebra, one year plane geometry. Three credits a quarter; autumn, winter, spring. Neikirk, Cramlet.

61, 62, 63. *Calculus*.—Primarily for students in the Colleges of Engineering and Mines. Prerequisites, Math. 2 and 53. Three credits a quarter; autumn, winter, spring.

#### ADVANCED UNDERGRADUATES AND GRADUATES

101. *Advanced Trigonometry*.—Trigonometric series, DeMoivre's and Euler's theorems, hyperbolic functions. The elements of spherical trigonometry. Prerequisites, Math. 2 and 4 or 51. Two credits; autumn. Moritz

102. *Advanced Analytical Geometry*.—Poles and polars, the general conic, abridged notation. Prerequisites, Math. 6 or 53. Two credits; winter. Moritz.

103. *Solid Analytical Geometry*.—Fundamental theorems regarding the planes, lines, cones, cylinders, and quadric surfaces in general. Classification of quadric surfaces. Prerequisites, Math. 2 and 6 or 53. Two credits; spring. Moritz.

107, 108, 109. *Calculus*.—Elements of differential and integral calculus, primarily for students in the College of Science. Prerequisite, Math. 6. Five credits a quarter; autumn, winter, spring. Moritz.

114, 115. *Ordinary and Partial Differential Equations*.—With applications to problems in physics, chemistry, astronomy and engineering. Prerequisite, Math. 109 or 63. Three credits a quarter; autumn, winter. Carpenter.

117, 118, 119. *Projective Geometry*.—Classical theory through Pascal and Brianchon. Selected topics in involution, binary forms, algebraic invariants, the conic as a rational curve and a ternary form. To meet needs of teachers and professional mathematicians. Prerequisite, calculus, unless it is taken concurrently. Two credits a quarter; autumn, winter, spring. Winger.

\*151. *Mathematical Theory of Finance*.

\*152. *Mortality Tables*.

\*153. *Insurance.—Premiums and Reserves*.

\*161, 162, 163. *Analytical Mechanics*.

164, 165, 166. *Mathematics of Physics*.—For students of science, aiming to give the student sufficient mathematics to enable him to read the easier scientific papers in the current literature. It presupposes a thorough grasp of elementary physics and mathematics through the calculus. Differential equations should be taken before or concurrently. Three credits a quarter; autumn, winter, spring. Neikirk.

*Teachers' Course in Mathematics*.—See Educ. 160M.

#### COURSES FOR GRADUATES ONLY

201, 202, 203. *Differential Geometry*.—Two credits; autumn, winter, spring. Carpenter.

\*204, 205, 206. *Modern Algebra*.

\*207-208-209. *Theory of Relativity*.

\*211, 212, 213. *Foundations of Mathematics*.

214, 215, 216. *Modern Analysis*.—Three credits; autumn, winter, spring. Moritz.

\*221, 222, 223. *Higher Plane Curves*.

\*224, 225, 226. *Real Variables*.

\*227, 228, 229. *Theory of Numbers*.

\*231, 232, 233. *Theory of Infinite Processes*.

\*235, 236, 237. *Metric Differential Geometry*.

251, 252, 253. *Mathematical Journal and Research Club*.

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\*Not offered in 1927-1928.

## MECHANICAL ENGINEERING

## Engineering Hall

*Professors Eastwood, Wilson, Winslow; Assistant Professors McIntyre, McMinn, Edmonds.*

70. *Elements of Gas Engines.*—Arranged for the students in fisheries and forestry. Two credits; winter. Wilson.

81. *Mechanism.*—Operation of machines involving the transmission of forces and the production of determinate motions. Prerequisite, G.E. 13, Math. 52. Three credits; autumn, winter, spring.

McIntyre, McMinn, Edmonds, Winslow.

82. *Steam Engineering.*—Various steam apparatus used in modern steam plants; construction, use and reason for installation. Not open to freshmen. Prerequisite, G.E. 2. Three credits; autumn, winter, or spring.

Eastwood, McMinn, Edmonds, Winslow.

83. *Steam Engineering Laboratory.*—Calibrations of thermometer, gages and indicator springs; tests of the simple steam engine; one complete engine and boiler test with report. Preceded or accompanied by M.E. 82. Lab. fee, \$2. Three credits; autumn, winter, spring. Wilson, McIntyre.

91, 92, 93. *Machine Design.*—Design of machine details. Prerequisite, G.E. 13. Two credits a quarter; autumn, winter, spring.

McIntyre, Edmonds, McMinn, Winslow.

101, 102. *Machine Design.*—Advanced problems in machine design. Prerequisites, M.E. 93, C.E. 132. Two credits a quarter; autumn and winter.

Winslow.

103. *Steam Engine Design.*—Computations and drawings for the design of a steam engine. Prerequisite, M.E. 124, C.E. 132. Three credits; spring. Winslow.

107. *Heating and Ventilation.*—An abridged course for students in the department of architecture. Prerequisite, junior standing. Two credits; spring. Eastwood.

123, 124. *Engines and Boilers.*—Generation and use of steam in various types of boilers and engines. Prerequisite, M.E. 83, 93, also preceded or accompanied by C.E. 131. Three credits a quarter; autumn, winter. Winslow.

140. *Time Study and Job Analysis.*—Job standardizing in modern industry. Personnel requirements and training. Analyzing job. Computing, checking, summarizing, explaining, applying, and perpetuating standards. Five credits; autumn and spring. McIntyre.

151, 152, 153. *Experimental Engineering.*—Continuation of M.E. 83, involving more extended and complete investigations. Prerequisite, M.E. 83. Lab. fee, \$2. Three credits a quarter; autumn, winter, spring. Wilson.

167. *Engineering Materials.*—Properties of various materials used in engineering construction, including iron, steel, reinforced concrete and timber. Recitation and laboratory. Prerequisite, C.E. 132. Junior mechanical and electrical engineers. Lab. fee, \$2. Three credits; autumn, winter and spring. Winslow, McMinn.

179. *Steam Turbines.*—Theory, construction and design of steam turbines. Prerequisite, M.E. 82. Three credits; spring. Eastwood.

182. *Heating and Ventilation.*—Various systems of heating and ventilating methods with designs. Prerequisite, M.E. 82. Three credits; autumn, winter. Eastwood.

183. *Thermodynamics and Refrigeration*.—Fundamental principles underlying the transformation of heat into work, with special application to engineering. Prerequisite, M.E. 82. Five credits; autumn. Eastwood.

184. *Power Plants*.—Design of steam power plants, involving their location, buildings, prime movers, and power transmission. Prerequisite, M.E. 83, 123. Three credits; spring. Winslow.

185, \*\*186, \*\*187. *Naval Architecture*.—Theory of naval architecture, as pertains to displacement, stability and strength, and the usual calculations involved in construction. Not open to freshmen. Three credits a quarter; spring, autumn, winter. Eastwood.

\*\*188, \*\*189. *Ship Design*.—Application of the principles of naval architecture to the design of a ship for a definite purpose. Prerequisite, M.E. 186. Two credits a quarter; autumn and winter. Eastwood.

\*\*190. *Marine Engineering*.—Power plant equipment of ships, including boilers, engines, auxiliaries and propellers. Prerequisite, M.E. 82, 185. Three credits; spring. Eastwood.

191-192-193. *Research*.—Two to five credits. Eastwood.

194. *Seminar*.—Two credits; winter. Eastwood.

195. *Thesis*.—Investigation, design or experiment under direction of the professor in charge. Two to five credits; senior year. Eastwood.

198. *Gas Engineering*.—Development of gas engineering; stationary, marine, automobile and airplane motors, and gas producer plants. Prerequisite, M.E. 82. Three credits; autumn, winter, spring. Wilson.

199. *Gas Engine Design*.—Calculations and plans for the design of a given type of motor. Prerequisite, M.E. 198. Three credits; spring. Wilson.

#### COURSES FOR GRADUATES ONLY

211-212-213. *Research*.—Autumn, winter, spring. Three credits a quarter. Eastwood.

#### METALLURGY

Mines Hall

See Mining, Metallurgy and Ceramics.

#### MILITARY SCIENCE AND TACTICS

The Armory

Colonel Matthews, Major Greene, Major Muhlenberg, Major Schrader, Major Gregory, Captain Adair, Captain Meredith, Captain Williams, Lieut. Luce, Lieut. Hildebrand, Warrant Officer White, First Sergeant Lang, Staff Sergeant Compton; Sergeants Bailey, Beckett, Hansen; Privates First Class Freeman, Honeas.

All male students in the University who are American citizens, and not physically disqualified, are required to take military training throughout the first two years of residence. The present requirement is five hours per week.

The instruction of these two years, together with that provided for the

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\*\* Will be offered if a sufficient number of students elect the course.

third and fourth years, constitute the courses prescribed by the war department for institutional units of the Reserve Officers' Training Corps. Three of these units have been established in this University, infantry, coast artillery and air corps, each leading to commissions as reserve officers in the appropriate corps. The advanced courses, those of the third and fourth years, are open to all students who have completed the first two years—basic course—of instruction and training.

All assignments for instruction and training will be made at the time of registration with the military department.

For those students who desire to major in military science, a four-year curriculum has been arranged. (See curricula of the College of Science bulletin.)

#### FIRST YEAR

1-2-3. *Basic Infantry, Air Corps.*—Marksmanship, military courtesy, military hygiene and first aid, physical drill, and command and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

4-5-6. *Basic Coast Artillery.*—Military policy, U.S.; military courtesy and discipline; artillery drill, infantry drill, physical training, ceremonies and gunnery instruction. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

11-12-13. *Band.*—Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

#### SECOND YEAR

51-52-53. *Basic Infantry.*—Scouting and patrolling, musketry, interior guard duty, automatic rifle, physical drill, and command and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

61-62-63. *Basic Coast Artillery.*—Military policy, U.S.; military courtesy and discipline; gunnery instruction to include fire control and position finding; artillery materiel and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

71-72-73. *Basic Air Corps.*—General air corps subjects, air corps weapons, communications, field engineering and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

81-82-83. *Band.*—Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

#### THIRD YEAR

101. *Advanced Infantry.*—Military field engineering, combat principles, and command and leadership. One and two-thirds credits; autumn.

102. *Advanced Infantry.*—Machine guns, and command and leadership. One and two-thirds credits; winter.

103. *Advanced Infantry.*—Machine guns, military sketching, and command and leadership. One and two-thirds credits; spring.

104. *Advanced Infantry.*—Military field engineering; combat principles of the defense, elements of military field engineering with a study of trenches, obstacles, shelters, etc. Combat principles of the squad and section, includes the service of security and attack. Command and leadership. Primarily for students majoring in military science. Three credits; autumn.



105. *Advanced Infantry*.—Machine guns; technique of fire, direct and indirect laying, machine gun characteristics, organization, elementary and advanced drill, machine gun in attack and defense, exercises with weapons and instruments, range and target exercises. Command and leadership. Primarily for students majoring in military science. Three credits; winter.

106. *Advanced Infantry*.—Machine guns: continuation of Mil. Sci. 105. Military sketching: classification of military sketches, scales, instruments, conventional signs, lettering and titles, contours, equipment, traversing elevations, practical work in making route and area sketches. Command and leadership. Primarily for students majoring in military science. Three credits; spring.

111. *Advanced Coast Artillery*.—Orientation and leadership. One and two-thirds credits; autumn.

112. *Advanced Coast Artillery*.—Gunnery and leadership. One and two-thirds credits; winter.

113. *Advanced Coast Artillery*.—Gunnery and leadership. One and two-thirds credits; spring.

114. *Advanced Coast Artillery*.—Orientation. Reconnaissance of battery positions. Determination of coordinates and orienting lines. Meridian determinations. Transit and calculations. Leadership. Primarily for students majoring in military science. Three credits; autumn.

115. *Advanced Coast Artillery*.—Gunnery. Study of trajectory and effects of velocity, air density, temperature, altitude, problems in computation of firing data for 155 G.P.F. and seacoast artillery. Leadership. Primarily for students majoring in military science. Three credits; winter.

116. *Advanced Coast Artillery*.—Gunnery. Observation of fire. Methods of fire adjustment for fixed and mobile heavy artillery. Problems in fire adjustment. Conduct of actual heavy artillery fire, 155 G.P.F. and 3-inch fixed seacoast guns at Ft. Casey. Primarily for students majoring in military science. Three credits; spring.

121. *Advanced Air Corps*.—Communications, liaison, aeronautical engines and leadership. One and two-thirds credits; autumn.

122. *Advanced Air Corps*.—Communications, liaison, aeronautical engines and leadership. One and two-thirds credits; winter.

123. *Advanced Air Service*.—Aerial photography, minor tactics, aeronautical engines, administration and leadership. One and two-thirds credits; spring.

124. *Advanced Air Corps*.—Communications: Radio telegraphy and telephony; operation of instruments and ground panels; use of Very pistols, flares, and reflectors in liaison. Aeronautical engines; theoretical instruction on the Liberty 12 aircraft engine, including ignition and carburetion. Leadership. Primarily for students majoring in military science. Three credits; autumn.

125. *Advanced Air Corps*.—Communications: Radio telegraphy and telephony. Liaison with artillery, work of the Observation Squadron and Observer, reconnaissance, adjustment of fire, work with the infantry and cavalry. Theoretical instruction on rotary and radial engines, the Le Rhone engine. Leadership. Primarily for students majoring in military science. Three credits; winter.

126. *Advanced Air Corps*.—Aerial photography, aerial photographs, and their interpretation, types of cameras used and instruction in their care and operation. A brief study in minor tactics. Practical instruction on the Liberty 12 aircraft engine. General administration. Leadership. Primarily for students majoring in military science. Three credits; spring.

## FOURTH YEAR

151. *Advanced Infantry*.—Administration, military history and National Defense Act. Command and leadership. One and two-thirds credits; autumn.

152. *Advanced Infantry*.—Infantry weapons (37 mm. gun and 3-inch trench mortar). Command and leadership. One and two-thirds credits; winter.

153. *Advanced Infantry*.—Combat principles. Command and leadership. One and two-thirds credits; spring.

154. *Advanced Infantry*.—Administration: lectures on practical administration of a company including interior economy and management, preparation of rosters, reports, correspondence and orders. Military history and National Defense Act: military resources and military strength of the United States, the state of national defense for war at critical periods, the cost of American wars, the traditional policy of the United States. Command and leadership. Primarily for students majoring in military science. Three credits; autumn.

155. *Advanced Infantry*.—Infantry weapons: 37 mm. gun and 3-inch trench mortar, including nomenclature, use, care and repair, mechanics of weapons, practical exercises with weapons and instruments, range and target exercises, organization, communication, transportation, and combat principles of the offense and defense, special operations. Combat principles: combat principles of the platoon and company in attack, night operations, security on the march and at rest. Estimates of the situation, orders, messages and problems. Command and leadership. Primarily for students majoring in military science. Three credits; winter.

156. *Advanced Infantry*.—Combat principles. Continuation of Mil. Sci. 155. Military law and rules of land warfare: military jurisdiction, courts-martial, witnesses and depositions, evidence, procedure, records of trial, articles of war, charges and specifications. Command and leadership. Primarily for students majoring in military science. Three credits; spring.

157. *Military Thesis on Infantry*.—Five credits; autumn, winter, spring.

161. *Advanced Coast Artillery*.—Military law, artillery materiel, and leadership. One and two-thirds credits; autumn.

162. *Advanced Coast Artillery*.—Tactical employment of heavy artillery. Administration, field engineering and leadership. One and two-thirds credits; winter.

163. *Advanced Coast Artillery*.—Motor mechanics and leadership. One and two-thirds credits; spring.

164. *Advanced Coast Artillery*.—Military law and procedure of courts-martial. Railway, heavy tractor, anti-aircraft and trench artillery—their development and mission. Leadership. Primarily for students majoring in military science. Three credits; autumn.

165. *Advanced Coast Artillery*.—Tactical employment of heavy artillery, selection of positions, role of artillery in action. Field engineering for

artillery, uses, necessity and construction methods. Lectures on company administration. Preparation of standard routine papers pertaining to command of a battery of artillery. Leadership. Primarily for students majoring in military science. Three credits; winter.

166. *Advanced Coast Artillery*.—Motor mechanics for heavy duty trucks, tractors and self-propelled heavy artillery. Principles of internal combustion engine and accessories in artillery use. Leadership. Primarily for students majoring in military science. Three credits; spring.

167. *Military Thesis on Coast Artillery*.—Five credits; autumn, winter, spring.

171. *Advanced Air Corps*.—Aerial gunnery, navigation, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; autumn.

172. *Advanced Air Corps*.—Bombardment equipment, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; winter.

173. *Advanced Air Corps*.—Airplanes, air corps organization, aeronautical engines and leadership. One and two-thirds credits; spring.

174. *Advanced Air Corps*.—Aerial gunnery; use of the weapon in the air; use of the camera gun. Theoretical instruction in navigation, meteorology and its relation to aerial navigation. Aeronautical engines; theoretical instruction on the Hispano Suiza engines. Leadership. Primarily for students majoring in military science. Three credits; autumn.

175. *Advanced Air Corps*.—Theoretical and practical study of bombardment equipment. Aeronautical engines; practical work on the Liberty 12 aircraft engine, study of fusillade, wing surfaces, tail surfaces, control surfaces, struts, cones, and general equipment, preliminary instruction in rigging. Leadership. Primarily for students majoring in military science. Three credits; winter.

176. *Advanced Air Corps*.—Airplanes: practical work on dismantling and assembling of airplanes, a study of the organization table of the Air Corps. Aeronautical engines: practical instruction on the Hispano Suiza 8. Leadership. Primarily for students majoring in military science. Three credits; spring.

177. *Military Thesis on Air Corps*.—Five credits; autumn, winter, spring.

## MINING, METALLURGY AND CERAMICS

### Mines Hall

*Professors Roberts, Daniels; Associate Professors Wilson, Corey; Lecturers Glenn, Powell; Assistants Schoning, Finland, Barquist, Baumann.*

### L. MINING

**NOTE**—Mining, metallurgical, geological, or ceramic experience. Each student is required to spend at least one summer vacation, or its equivalent, in practical contact with the industry, and to submit upon his return to college a detailed report of his observations. Work of this nature offers an opportunity to secure data and material for the graduation thesis.

51. *Elements of Mining*.—The field of mining, considering prospecting, boring, drilling, explosives, rock breaking, timbering, methods of development and working, transportation and drainage. Prerequisite, sophomore standing. Three recitations. Three credits; autumn. Daniels.

52. *Elements of Mining*.—Continuation of Min. 51, giving consideration to machinery and methods of working metal, coal, and placer mines, quarries, and clay deposits. Prerequisite, Min. 51. Two recitations, and one laboratory period. Three credits; winter. Daniels.

101. *Milling*.—Preliminary course, designed to familiarize all students in the college with the principles and uses of the various types of crushing, sampling, concentrating and washing machinery in the Mines Building. Prerequisite, junior standing. Two recitations and one laboratory period. Lab. fee, \$5. Three credits; autumn. Roberts.

103. *Mine Rescue Training*.—Twenty-five hours of instruction. Practice in the care and use of oxygen rescue apparatus, smokeroom training, and first-aid-to-the-injured work in the U.S. Bureau of Mines Safety Station. A government certificate is given on completion of the course. Required of all students in the College of Mines. One credit; winter. Daniels.

106. *Mining Excursion*.—A five days' trip, taken in the spring of the junior year to a neighboring mining region; detailed examinations of mining and metallurgical industries. Expense is approximately \$25. One credit; spring. Roberts, Daniels.

107. *Mining Excursion*.—A five days' trip, taken in the spring of the senior year, similar to Min. 106. One credit; spring. Roberts, Daniels.

122. *Coal Mining Methods*.—Prospecting and development. Detailed study is made of a nearby mine. Prerequisite, Min. 51. Three recitations, Three credits; winter. Daniels.

151. *Mining Engineering*.—Lectures on exploration, mine development, power generation, air compression, hoisting and transportation. Practice with air compressors, machine drills, and mine equipment in laboratories and local plants. Prerequisite, senior standing. Two recitations, one laboratory period. Lab. fee, \$5. Three credits; autumn. Roberts.

152. *Ore Dressing*.—Certain branches of ore dressing, mill tests of ores checked by assays. Prerequisite, senior standing. Three recitations and two laboratory periods. Lab. fee, \$10. Five credits, spring. Roberts.

162. *Cost of Mining*.—Mining methods and costs. Prerequisite, senior mining standing. Three recitations and one laboratory period. Four credits; winter. Roberts.

\*163. *Mine Operation*.

170. *Coal Mining Machinery*.—Coal cutting machines, mine locomotives, fans, hoists, and pumps with especial reference to application to coal mining. Prerequisite, senior standing. Three recitations. Three credits; autumn. Daniels.

171. *Mine Gases and Ventilation*.—Composition and properties of mine gases, methods of testing; lighting of mines; principles of ventilation; ventilating machinery. Prerequisite, Min. 122. Three recitations. Three credits; winter. Daniels.

176. *Coal Preparation*.—Methods of preparing coal for market, together with laboratory tests and runs on various coals, to determine best methods of preparation. Prerequisite, Min. 101, Met. 103. Two recitations and 2-4 hr. laboratory periods. Lab. fee, \$10. Five credits; winter. Daniels.

178. *Coal Preparation Machinery*.—Machines and equipment used in

tipples and washeries for the screening and washing of coal. Prerequisite, Min. 176. Two recitations. Two credits; spring. Daniels.

182. *Mine Management*.—Organization and administration of engineering plants, the keeping and interpretation of cost accounts, the efficiency of labor and methods, the financial, legal and social aspects of engineering operation. Prerequisite, senior standing. Three recitations. Three credits; spring. Daniels.

191, 192, 193, 194. *Thesis*.—Preparation of a graduation thesis in mining, metallurgy or ceramics. A fee of \$5 a quarter is required to cover cost of materials. Completed thesis must be submitted at least one month before graduation. Prerequisite, senior standing. Total five credits allowed for thesis. Hours and credits to be arranged; autumn, winter, spring, summer. Roberts, Daniels, Corey, Wilson.

#### COURSES FOR GRADUATES ONLY

201, 202, 203. *Seminar*.—Lectures and discussions by Bureau of Mines staff, College of Mines faculty and fellows. Required of Bureau of Mines fellowship holders. Prerequisite, graduate standing. One credit; autumn, winter, spring. Staff.

211, 212, 213, 214. *Graduate Thesis*.—Preparation of a thesis in mining, metallurgy, or ceramics. Prerequisite, graduate standing. A fee will be required if the work involves the use of laboratory materials or equipment. Hours and credits to be arranged. Total nine credits allowed for thesis. Autumn, winter, spring, summer. Roberts, Daniels, Corey, Wilson.

221, 222, 223. *Graduate Metal Mining*.—Studies in metal mining or in ore dressing. Prerequisite, graduate standing. Hours and credits to be arranged. Roberts.

251, 252, 253. *Graduate Coal Mining*.—Studies in coal mining or in the preparation or uses of coal. Prerequisite, graduate standing. Hours and credits to be arranged. Daniels.

#### II. MINING AND METALLURGICAL RESEARCH

*The Technical Staff of the United States Bureau of Mines Northwest Experiment Station in Co-operation with the Instructors in the College of Mines.*

Class work is directed by members of the instructional staff of the University. Research work is under joint direction of the United States Bureau of Mines and the College of Mines. Subjects of research relate to the mining and metallurgical industries of the state and adjacent regions.

During the coming year investigations are contemplated in the following subjects:

1. The preparation and utilization of coal.
2. Clay washing and utilization.

#### III. METALLURGY

101. *Fire Assaying*.—Testing of reagents, crushing, sampling and assaying of ores, furnace and mill products. Prerequisite, Chem. 111. One recitation and three laboratory periods. Lab. fee, \$20. Five credits; autumn. Corey.

102. *General Metallurgy*.—Properties of metals and alloys, fuels, refractory materials; furnaces; the extraction of the common metals from their

ores. Visits to smelters. Prerequisite, junior standing. Three recitations and one 4-hour laboratory period. Lab. fee, \$10. Five credits; spring. Corey.

103. *Fuels*.—A study of all types of fuels now used in industry and a consideration of the most effective utilization of the country's present supplies. Consideration of future development of fuels. Laboratory work in analysis. Prerequisite, junior standing. Three recitations and one laboratory period. Lab. fee, \$5. Four credits, winter. Daniels.

104. *Non-ferrous Metallurgy*.—Metallurgy of copper, lead, gold and silver, especially the methods of roasting, smelting, lixivation and refining. Prerequisite, Met. 102. Five recitations. Five credits; autumn. Corey.

153. *Wet Assaying*.—Technical methods for the determination of copper, lead, zinc, etc., in ores and furnace products. For students in ceramics, analysis of clays and ceramic products. Prerequisite, Met. 102, Chem. 111. One recitation and two laboratory periods. Lab. fee, \$12. Three credits; winter. Corey.

155. *Iron and Steel*.—Metallurgy and manufacture of commercial iron and steel; especial reference to their properties and uses in engineering work. Prerequisite, junior standing. Three recitations. Three credits; autumn. Daniels.

160. *Metallurgical Analysis*.—Technical methods of analysis of slags and industrial products. Prerequisite, Met. 153. Two laboratory periods. Lab. fee, \$12. Two credits; spring. Corey.

162. *Metallography*.—Constitution and microstructure of metals and alloys, especially iron and steel. Prerequisite, senior standing. Two recitations. Two credits; autumn. Corey.

163. *Metallography*.—Preparation and study of metal sections, photomicrography and the use of the microscope in testing industrial alloys. One recitation and two laboratory periods. Prerequisite, Met. 162. Lab. fee, \$5. Three credits; winter. Corey.

165. *Metallurgy Calculations*.—Physical chemistry of the metallurgist, slag calculations, etc., illustrated by figures quoted from the present practice at a number of smelting plants. Prerequisite, senior standing. Three recitations. Three credits; winter. Corey.

166. *Electrometallurgy*.—Study of methods and practice with special consideration of the possibilities of electrometallurgical industries in the Pacific Northwest. Prerequisite, senior or graduate standing. Three credits; spring. Corey.

221, 222, 223. *Graduate Metallurgy*.—Studies in metallurgy. Prerequisite, graduate standing. Hours and credits to be arranged. Corey.

#### IV. CERAMICS

90. *Ceramic Materials*.—Origin, occurrence, physical properties, and preparation of clays, feldspar, limestone, magnesite, silica and other materials used in the ceramic industry. Prerequisite, sophomore standing in engineering or mining. Three lectures or recitations. Three credits; spring. Wilson.

100. *Ceramic Products*.—Principles governing the shaping of structural, refractory and fine ceramic wares. Prerequisite, Cer. 90. Three lectures. Three credits; autumn. Wilson.

101. *Drying and Burning*.—Principles of drying and burning; the oper-

ation and control of commercial dryers and kilns. Prerequisite, Cer. 100. Three lectures and recitations. Three credits; winter. Wilson.

102. *Ceramic Decorations*.—Preparation and characteristics of vapor, natural clay slip, raw lead, bristol, terra cotta, porcelain and fritted glazes, bright and mat, with methods of coloring. Prerequisite, Cer. 101. Three lectures and recitations. Three credits; spring. Wilson.

104, 105. *Ceramic Calculations*.—Chemistry and physics of preparing, drying, and firing ceramic materials. Problems involved in standard methods of testing clay. The blending of raw materials for ceramic bodies and glazes. Prerequisite, Cer. 90. Three recitations. Three credits; autumn and winter. Wilson.

110. *Ceramic Physical-Chemical Measurements*.—Testing of clays and other ceramic materials. Determination of fineness of grain, shrinkage, porosity and specific gravity; plasticity, bonding power, vitrification and fusion, chemical purification and action of colloids. Prerequisite, Cer. 105. Lab. fee, \$5 a quarter. Two laboratory periods. Two credits; spring. Wilson.

121, 122, 123. *Ceramic Products Laboratory*.—Laboratory production of structural wares, stoneware, yellow ware, porcelain and refractories. Blending, molding, drying, firing and glazing. Prerequisite, Cer. 101. Lab. fee, \$10 a quarter. Three laboratory periods and two recitations. Five credits a quarter; autumn, winter, spring. Wilson.

**\*\*125, 126, 127. *Ceramic Plant Design*.**

**\*\*131, 132, 133. *General Ceramics***.—Occurrence, winning and preparation of materials used in ceramics. Process used in preparation of raw materials, shaping, drying and firing of ceramic products. Three lectures or recitations. Three credits; autumn, winter and spring.

**\*\*140. *Pottery***.—Occurrence, winning and preparation of materials used in pottery manufacture. Processes used in moulding, drying, firing, glazing, and decorating of pottery. Two lectures and recitations. Two credits; autumn. Wilson.

**\*\*150. *Lime, Plasters and Cements***.—Raw materials, manufacture and testing of lime, calcined gypsum, sand-lime brick, and Portland cement. Prerequisite, Chem. 23. Three lectures and recitations. Three credits; winter. Wilson.

**\*\*160. *Glass Technology***.—Theory and factory practice of glass manufacture. Prerequisite, Cer. 105. Two lectures and recitations. Two credits; autumn. Wilson.

**\*\*170. *Metal Enamels***.—Theory and practice of metal enameling. Prerequisite, Cer. 105. Two lectures and recitations. Two credits; autumn. Wilson.

180. *Refractories*.—Origin, occurrence and physical properties of fire-clays and other refractory materials. The manufacturing problems of fire-clay, silica, magnesia, chromite brick, electric furnace products and special refractories. Prerequisite, junior standing. Three lectures or recitations. Three credits; winter.

221, 222, 223. *Graduate Ceramics*.—Studies of the ceramic resources of the Pacific Northwest, or in the manufacture of clay products. Prerequisite, graduate standing. Hours and credits to be arranged. Wilson.

**\*\* Will be offered if a sufficient number of students elect the course.**

## Music

## Music Building

*Professor Glen, Associate Professors Rosen, Venino, Wood, Newenham, Assistant Professors Van Ogle, Lawrence, Associates Bogardus, McKay, L. Venino, Lynch, Mabon, Instructors Adams, Kirchner, Neilson, Schumacher, Allen, Assistants Oliver, Canfield, Bamford, Burns.*

It will be noted that the courses in music are not hyphenated, but students who have not taken the first quarter's work in courses that continue longer than one quarter, may enter courses subsequent to the first quarter only with the consent of the instructor in charge.

6. *Music History*.—Progress of musical development from the primitive period to the modern. Five credits; autumn, winter, spring. Neilson.

9. *Sight Singing*.—For beginners. Five credits; autumn, winter, spring. Newenham, Bamford, Schumacher.

10, 11, 12. *Choral Study*.—The University chorus provides opportunity for those qualified to study the more serious as well as the lighter forms of choral composition. Candidates must satisfy the director as to the extent of their musical ability. Fee, \$1 for 10, 11. One credit a quarter; autumn, winter, spring. These courses may carry upper division credit in cases where the student has previously been enrolled in music courses for at least two years. Glen, Lawrence.

13. *Music Appreciation*.—To aid music students and all interested in music to become intelligent and discriminating listeners. Musical masterpieces, both instrumental and vocal, of different periods and forms, will be presented and discussed. Five credits; autumn, winter, spring. Neilson.

16. *Ear Training and Melody Writing*.—Principles of melodic invention and training in hearing accurately; study in notation. Five credits; autumn, winter, spring. Newenham, Bamford, Schumacher

18, 19, 20. *Applied Music*.—(Freshman).

68, 69, 70. *Applied Music*.—(Sophomore.).

118, 119, 120. *Applied Music*.—(Junior).

168, 169, 170. *Applied Music*.—(Senior).

Students in other colleges and schools of the University may earn one or two credits a quarter in the applied music courses. Students of the College of Fine Arts carry a larger number of credits—one and one-half to three—as indicated in the set courses. Students enrolled in these courses will be given opportunity, on demonstration of the required ability, to participate in public recitals of the department.

Unless excused by reason of advanced standing on entrance, students who major in courses in applied music will require two lessons a week, ordinarily, to cover the work necessary for a degree. One to three credits a quarter.

(a) *Piano*.—Venino, Van Ogle, Mrs. A. F. Venino, Allen.

(b) *Violin*.—Rosen, Oliver.

(c) *Voice*.—Glen, Mabon, Bogardus, Lawrence.

(d) *Violoncello*.—Kirchner, Canfield.

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‡Only those who have successfully completed the work in course 11 will be eligible for registration in course 12.



(e) *Organ*.—Lynch, Wood.

(f) *Band and Orchestra Instruments*.—Adams.

25, 26, 27. *Choral Study*.—For freshmen. Part songs for men's voices. Candidates admitted only upon examination. Two credits a quarter; autumn, winter, spring. Lawrence.

28, 29, 30. *Choral Study*.—Part songs for women's voices. Only advanced students will be admitted. Two credits a quarter; autumn, winter, spring. Glen.

31, 32, 33. *University Orchestra*.—The orchestra affords qualified students opportunity for study of the better grades of orchestral composition. No one is eligible to enter the course unless the director is satisfied of the ability of the applicant. One credit a quarter; autumn, winter, spring. Glen.

34, 35, 36. *Voice Training*.—*Applied Music*.—Principles of correct breathing and tone production essential to good singing. Two credits a quarter; autumn, winter, spring. Bogardus.

51. *Elementary Harmony*.—The harmonic series, intervals, and chord structure. Use of primary harmonies and bytones. Analysis and keyboard practice. Prerequisite, some knowledge of the piano, Mus. 9 and 16. Five credits; autumn, winter, spring. Wood, Neilson, Burns.

53. *Intermediate Harmony*.—Secondary harmonies. Prerequisite, Mus. 51. Five credits; autumn, winter, spring. Wood, Neilson.

56. *School Music*.—For supervisors. Study of materials for the primary grades, of the child voice in singing and practice in chorus conducting. Prerequisite, Mus. 9, 16. Five credits; autumn, winter, spring. Newenham, Neilson.

57, 58, 59. *Advanced Sight Singing*.—Study of "Elijah" in autumn quarter, "Aida" in the winter, Brahms "Requiem" and Mendelssohn's "Hymn of Praise" in the spring. For students with experience in sight singing. Two credits a quarter. Newenham.

61, 62, 63. *Advanced Ear Training*.—Dictation and keyboard practice supplementary to harmony courses. Prerequisite, Mus. 16. Two credits a quarter; autumn, winter, spring. Neilson.

65, 66, 67. *Choral Study*.—Not open to freshmen. Part songs for men's voices. Candidates admitted only upon examination. Two credits a quarter; autumn, winter, spring. Lawrence.

84, 85, 86. *Advanced Voice Training*. *Applied Music*.—Two credits a quarter; autumn, winter, spring. Bogardus.

101. *Advanced Harmony*.—Chromatic harmonies and modulation. Prerequisite, Mus. 53. Five credits; autumn, winter, spring. Wood, Bullock.

104, 105, 106. *Advanced Music History*.—Important periods and composers of modern music. Two credits a quarter; autumn, winter, spring. Van Ogle.

109. *Counterpoint*.—Regulation of two or more concurrent melodies. Prerequisite, Mus. 53. Five credits a quarter; autumn, winter, spring. Wood, Bullock.

112. *Music Form*.—Analysis of many examples and simple exercises in composition. Prerequisite, Mus. 53. Five credits; autumn, winter, spring. Wood.

113, 114. *Music Education*.—Psychological and pedagogical principles and their application to the teaching of music. Prerequisite, Mus. 56. Two credits a quarter; autumn, winter. Newenham.

117. *Elementary Composition*.—Original work and arrangements for the more usual combinations of voices or instruments. Prerequisite, Mus. 101. Five credits; winter, spring. Wood.

124, 125, 126. *Chamber Music*.—Advanced study of musical literature for stringed trios, quartets and quintets. One credit a quarter; autumn, winter, spring. Rosen.

\*127, 128, 129. *Advanced Sight Singing*.

130, 131, 132. *University Band (advanced)*.—Continuation of the work of the freshman and sophomore years in the study and production of more difficult compositions for band. One credit a quarter; autumn, winter, spring. Adams.

140, 141, 142. *Orchestral Instruments*.—Especially for public school majors. Two credits a quarter; autumn, winter, spring. (May be counted as applied music.) Adams.

151, 152, 153. *Advanced Music Appreciation*.—Appreciative study of some modern composers and schools. Two credits a quarter; autumn, winter, spring. Van Ogle.

154, 155, 156. *Music Supervision*.—For seniors and students of experience. High school, normal school, rural, community music. Appreciation and theory problems. Courses of study. Prerequisite, Mus. 113, 114, and Educ. 160N. Two credits a quarter; autumn, winter, spring. Newenham.

157. *Free Composition*.—Pieces in the smaller forms for voices and for instruments. Prerequisite, Mus. 117. Five credits; winter. Wood.

163. *Polyphonic Forms*.—Free counterpoint applied to the invention, canon, fugue, etc. Analysis and composition. Prerequisite, Mus. 109. Five credits; autumn.

165, 166. *Piano Teaching Methods*.—Teaching methods and a survey of teaching material, with supervised practice in teaching of piano. Prerequisite, five hours in education. Two credits a quarter; autumn, winter. Schumacher

173. *Orchestration*.—Characteristics of individual instruments and exercises in scoring for various combinations. Prerequisite, Music 117. Five credits; winter.

\*177. *Composition*.

197. *Advanced Composition*.—Original work in the larger forms. Prerequisite, Mus. 157. Five credits; spring.

199. *Senior Recital*.—Two credits; winter or spring.

*Teachers' Courses in School Music and Piano Playing*.—See Educ. 160N and 160X.

#### COLLEGE COURSES IN APPLIED MUSIC

The courses outlined are not arbitrary. They indicate the amount and character of the work the student is expected to cover for his musical degree. Credit will be given for equivalent courses pursued elsewhere prior to entering the University.

\* Not offered in 1927-28.

## PIANO

*Freshman and Sophomore Years.*—Major and minor scales and arpeggios; studies selected from Czerny, Cramer, Loeschorn, Kullak, Hiller and Krause; sonatas by Scarlatti, Haydn, Clementi, Mozart and Beethoven; shorter compositions and inventions by Bach; and works from the classic and romantic schools.

*Junior and Senior Years.*—Scales in thirds, sixths and tenths; studies by Czerny, Clementi, Chopin, Brahms, MacDowell and Moszkowski; well-tempered Clavichord and suites of Bach; sonatas, pieces including at least one concerto, taken from the classic, romantic or modern composers. At least one recital program must be played from memory from the repertoire studied.

## VOCAL MUSIC

The course in vocal music is even more flexible than that outlined for piano study. The purpose is to develop the voice and musical understanding so that the best in vocal music may be faithfully interpreted. The fact of having studied music for four years will not necessarily entitle a student to graduation.

*Freshman.*—Practical work in voice placing, breathing studies from among the following: Concone, Op. 9; Marchesi, Op. 1; Panofka, Op. 85; Vaccai, Book 1; simple Italian and English songs.

*Sophomore.*—Progressive tone work; Bordoni, Concone, Marchesi, Panofka, simple Italian arias, Italian and English songs.

*Junior.*—Tone work; advanced technique. Arias from Italian, French and German operas. German song classics; modern French and English songs.

*Senior.*—Tone work and technique. Repertoire in opera and oratorio; recitals; senior program.

## VIOLIN

*Freshman.*—Violin Method, Book I and II, Rosen; Exercises, Op. 45, Book I. Wohlfahrt; Book I, De Beriot, Exercises Op. 68.

*Sophomore.*—Scales, Hirnaly; Studies, Blumenstengel Op. 33, Mazas, Books I and II; Concerto, Accoly, Scene de Ballet, De Beriot.

*Junior.*—Scales; Exercises, Books I and II, Schraedieck; Etudes, Kreutzer, Fiorillo Rode, Rovelli; Concerto. 9, and 7, De Beriot; one sonata by Handel.

*Senior.*—Scales, Rosen; Etudes, Dancla; Op. 7., Gavini; Op. 35, Dont; Sonata for violin alone, Bach; Concerto, Bruch, Mendelssohn, D-Minor, Wieniaski and No. 4 Vieuxtemps.

In the last quarter the student is obliged to memorize one sonata by Bach for violin alone and one of the concertos given in the fourth year.

## FEES

Since most of the work in the courses in applied music must necessarily be of the character of individual instruction, the student is required to pay tuition fees for this work in addition to the general University tuition fee.

All fees are payable in advance to the comptroller of the University. The following quotations of regular fees are based on one lesson a week.

More than one lesson a week will be charged for at the same rate. All lessons are one-half hour in length.

*Chorus.*—Music 10 and 11, \$1.00.

*Piano.*—Mr. Venino, \$25 a quarter; Mrs. Van Ogle, \$25 a quarter; Mrs. Venino, \$25 a quarter; Miss Allen, \$18 a quarter.

*Vocal Music.*—Miss Mabon, \$25 a quarter; Mrs. Bogardus, \$25 a quarter; Mr. Lawrence, \$25 a quarter.

Dean Glen will give individual instruction in singing and repertoire to a maximum number of 5 students. The fee will be at the rate of \$27 a quarter for one lesson weekly.

*Violin.*—Mr. Rosen, \$25 a quarter; Mrs. Oliver \$18 a quarter.

*Organ.*—Mrs. Lynch, \$25 a quarter; Mr. Wood, \$25 a quarter.

*Violoncello.*—Mr. Kirchner, \$25 a quarter; Miss Canfield, \$18 a quarter.

*Band and Orchestra Instruments.*—Mr. Adams, \$20 a quarter.

Arrangements may be made for individual instruction in other musical courses if necessary or desirable.

Piano for practice may be rented at the comptroller's office at the following rates:

One hour daily, \$3 a quarter.

Organ for practice; one hour daily, \$12.50 a quarter.

Key deposit, \$1 a quarter.

All rental charges must be paid in advance. No rebate in these charges will be allowed. Lessons lost through enforced absence may not be made up unless the teacher in charge has been previously notified of the intended absence and is willing to accept the excuse for the absence.

## NAVAL SCIENCE AND TACTICS

### Forest Products Laboratory

*Commander James P. Olding, U. S. N., Professor of N. S. & T.; Lieut.-Comdr., Paul H. Rice, U. S. N., and Lieut.-Comdr. Eric L. Barr, U. S. N., Assistant Professors. C. J. Wilson, (C.B.M., U.S.N.), Malcolm Hamilton, (C.G.M., U.S.N.), R. B. Littell, (C.Y., U.S.N.), Instructors.*

All male students in the University who are American citizens, and not physically disqualified, are required to take military or naval training throughout the first two years of residence. The present requirement for the naval course is three hours per week with two additional hours in working navigation problems and in boat drill to be taken at the convenience of the student.

The instruction of these two years, together with that provided for the third and fourth years, constitutes the courses prescribed by the war and navy departments for institutional units of the Reserve Officers Training Corps. The naval course leads to a commission in the Reserve Corps of the United States Navy.

The advanced courses, those of the third and fourth years are open to all students who have completed the first two years—basic course—of instruction and training.

All assignments for instruction and training will be made at the time of registration with the naval department.

Students for the naval course will be selected from those applying.

FIRST YEAR

1-2-3. *Basic Course. Ordnance and Gunnery.*—Infantry and artillery drill, care and use of rifles and pistols. First aid and military hygiene, naval customs and etiquette. *Seamanship*—Handling of boats under oars and sail, knotting and splicing, life boat work. Signaling, rules of the road at sea. Lectures on general naval subjects. *Navigation*—Care and use of instruments, piloting, hydrographic surveying. The laws of storms, tides, currents. Light and buoyage systems as aids to navigation. Three hours per week plus two additional hours. One and two-thirds credits a quarter; autumn, winter, spring.

SECOND YEAR

51-52-53. *Basic Course. Ordnance and Gunnery.*—Infantry and artillery drill, care and use of machine guns, explosives; construction, use and care of large caliber naval guns. *Seamanship*—Duties of an officer, handling steamers, handling heavy weights, weather and the law of storms. *Navigation*—Nautical astronomy, problems in conversion of time and latitude and longitude by Sumner Line and St. Hilaire method. Three hours per week plus two additional hours. One and two-thirds credits a quarter; autumn, winter, spring.

NURSING

Home Economics Hall

Associate Elizabeth S. Soule

1. There are three distinct types of work for majors in nursing included in this department.

a. Five-Year Curriculum: Three years of University work and two years in an approved hospital, leading to a degree of bachelor of science in nursing and a hospital diploma.

b. Three-year curriculum for graduate nurses leading to a degree of bachelor of science in nursing.

c. One-year curriculum for graduate nurses leading to a certificate in public health nursing.

d. Three months' service course for students who have entered hospital schools of nursing.

2. Service course for majors in other departments.

3. Because of the desire to relate this work closely to outside institutions the following courses have been developed through the extension service department.

a. A course leading to a certificate in public health nursing at Firland Sanatorium.

b. An introductory course in public health nursing to senior students in general hospitals.

COURSES

1. *History of Nursing.*—Informational study of nursing from the earliest times; traditions of nursing as a profession. Open to any woman student in the University. Five credits; autumn. Soule.

3. *Ethics of Nursing.*—Designed to introduce the student to recognized principles which govern her relationship to the patient, the physician, the hospital and the public. Three credits; spring. Soule.

5. *Home Care of the Sick.*—Practical course for women students. Instruction given in baths and bed making, care of patients ill with common communicable diseases, care of chronics, invalids and babies. Fee, \$1. Two credits; autumn, winter, spring. Soule.

102. *Principles of Public Health Nursing.*—Lectures on social and nursing technique in public health nursing. Discussion and observation of infant welfare, school, industrial, tuberculosis, and general visiting nursing. Theoretical and practical work required. Prerequisite, graduate registered nurse. Five credits; autumn. Soule.

103. *Administration of Public Health Nursing.*—Organization and administration of societies for visiting nursing, methods of collecting funds, boards of directors, and various committees of these associations, office equipment, records, vital statistics, and supervision of staff nurses. Prerequisite, Nurs. 102. Five credits; winter. Soule.

\*104. *Mental Hygiene Nursing.*

110. *Public Health Nursing.*—Field work to give a practical knowledge of the field of public health nursing. Discussion of family problems, demonstration in nursing technique, culture taking, milk modification, maternity care, district problems, etc. Prerequisite, Nurs. 102. Eight to sixteen credits; time to be arranged.

111. *Supervised Field Work in School Nursing with the Medical Department of the Seattle Schools.*—Twelve hours field work; one hour class. Prerequisite, graduate registered nurse. Three credits; autumn, winter spring.

120. *Public Health Nursing.*—A non-technical course in public health. Deals with the modern public health movement in its various phases. Three credits; spring. Soule.

*Child Care and Development.*—See Home Economics 111.

*Health Education.*—See Educ. 179; P.E. 8, 9.

## ORIENTAL STUDIES

### Philosophy Hall

*Professor Gowen, Assistant Professor Griffin. Cooperating: Professors Skinner and MacNair*

The department presents the thought treasures, the history, and the institutions of the Asiatic world, and serves those persons looking forward to teaching, research, and other work concerned with Oriental peoples and affairs. Its courses are of use to students whose occupations will in some measure call for knowledge of the Orient—in business and trade; in journalism; in educational, religious, or social activity among Oriental races, either in Asia or in this country; and in political or diplomatic life. Persons interested in these special fields may profitably consult with the department regarding the choice of Oriental studies and the relation to these of various courses offered by the different faculties. Undergraduate and graduate students whose chief work is to be in this department are expected on registering in it to ask for a list of special provisions relating to the following: concentration of courses, required courses, knowledge of history and criticism, language requirements and possibilities, preparation in education, the scope of courses devoted to particular nations or periods, departmental reading and tests, suggestions for systematic private reading, possible lines of study in the reading course, topics in the Oriental seminar, general meetings (for discussion) of those registered in the department, publications, prizes, research and types of direct experience in the Orient,

\*Not offered in 1927-1928.

special lectures, and Oriental matters of local interest. These provisions also include the numbers and names of relevant courses in other subjects.

The college requirement of one year's work in ancient languages and literature may be satisfied by any two of the courses 50, 51, and 52. Courses 114, 115, and 116 count for credit in the department of philosophy.

History 25 and Oriental Studies 120 provide introductions to the subject, and each forms part of a sequence with courses 40-41 at the same hour for one year.

## COURSES

*\*1-2-3. Japanese Language.*

4, 5, 6. *Japanese Language.*—Second-year course. Not open to new students in winter and spring quarters. Intended to alternate with 1-2-3. Three credits; autumn, winter, spring. Griffin in charge.

*Introduction to History of Asia.*—(History 25.) This course aims to give a resume of the main currents of human movement in the history of the continent of Asia. Five credits; autumn. Gowen.

†40-41. *Civilisation of Eastern Asia and the Pacific.*—Attitudes, cultures, and institutions considered in relation both to existing situations and policies and to the antecedent development of different elements in the intellectual and social life of China, Japan, etc. History 25 or O.S. 120 advised as preliminary. Five credits; winter, spring. Griffin.

\*44-45-46. \*47-48-49. *Chinese Language.*—[See extension courses of these numbers below.]

†50. *Literature of India.*—Indian literature from the Vedas to Rabindranath Tagore. Five credits; winter. Gowen.

*\*51. Literature of the Euphrates Valley and Egypt.*

†52. *Literature of Persia.*—From the cuneiform inscriptions of the Achaemenians to the fifteenth century A. D. Five credits; spring. Gowen.

†70. *Literature of China.*—Literary, historical, and philosophical works studied chiefly from a social viewpoint. Instructor's permission necessary for freshmen. Intended to alternate with 71. Five credits; autumn. Griffin.

*\*71. Literature of Japan.*

*History of China.*—(History 75-76.) Evolution of the Chinese people; cultural and institutional factors; and contemporary China with reference to these. In this course and in the History of Japan attention is paid to the history of Chosen (Korea). Prerequisite, 10 credits of college history or O.S. 40-41. Five credits; winter, spring. Gowen, MacNair.

*History of Japan.*—(History 78-79.) See description History 75-76. Five credits; winter, spring. Griffin.

*\*80. Semitic Literature.*

101-102-103. *Hebrew, Aramaic, or Arabic.*—(According to demand.) Only one of the above named languages will be given in any one year. Offered in 1927-28 and alternate years. Five credits; autumn, winter, spring. Gowen.

104-105-106. *Sanskrit.*—Grammar and readings in the Nala, Hitopadeca and Veda. Five credits; autumn, winter, spring. Offered in 1927-28 and alternate years. Gowen.

\*Not offered in 1927-1928.

†Upper division students may secure upper division credit by doing additional work.

Only one of above languages 101-102-103, 104-105-106 will be given in any one year.

*Peoples of the Pacific Area.*—(Anthropology 111.) Background for political and social studies in the Pacific. Ethnography and racial origin of native peoples; modern population movements. Prerequisite, Anthro. 51 or 52. Three credits; spring. Radin.

\*114, 115, 116. *History of Religion.*—[Given in alternate years.]

*Geography of Asia.*—Five credits; spring. Renner.

120. *Problems of Eastern Asia and the Pacific.*—A case and problem approach to important questions, situations, and forces, of different types, considered as they actually are and in relation to the relevant historical background. Open, with instructor's permission, to qualified sophomores. Five credits; autumn. Griffin.

*International Relations of the Far East.*—(Pol. Sci. 128.) Prerequisite, Pol. Sci. 1. Three credits; winter. MacNair.

*Trade of Far East and Near East.*—(Econ. 143.) Prerequisite B.A. 7. Fee 50c. Five credits; winter. Skinner.

*Governments and Politics of the Far East.*—(Pol. Sci. 158.) Prerequisite Pol. Sci. 1. Three credits; spring. MacNair.

190\*, 191, 192. *Reading Course.*—Reading and regular conferences (individual or in small groups), reports, essays and tests; instructor's permission necessary. Two or three credits; winter, spring. Griffin.

220. *Oriental Seminar.*—Subjects to be determined. For qualified seniors and graduate students of this department; open to suitable advanced students in other departments with permission. Three credits; autumn. Gowen.

290, 291, 292. *Thesis.*—Directed investigation and writing in connection with work for advanced degrees. Credits to be arranged; autumn, winter, spring. Staff.

#### BY EXTENSION

E. 44-45-46. *Chinese Language.*—Introduction to the elements of Mandarin and the ideographs. Beginning students are strongly advised to plan to continue with the second-year course. For departmental credit 15 hours must be offered. Five credits; autumn, winter, spring.

E. 47, 48, 49. *Chinese Language.*—Second-year course. Each course a prerequisite to the following one. Three credits; autumn, winter, spring.

#### PAINTING, SCULPTURE AND DESIGN

##### Education Hall

Associate Professor Isaacs<sup>1</sup>; Assistant Professors Pratt, Hill; Associates Patterson, Worman; Instructors Rhodes, Foote, Kramer, Buck.

Students applying for advanced standing should present samples of work done, to the head of the department.

5, 6, 7. *Drawing.*—Elementary course. Charcoal and water color from casts and still life. Perspective. Prerequisite for any subsequent course in drawing and painting. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring. Patterson, Pratt, Hill.

\*Not offered in 1927-1928.

<sup>1</sup> Absent on leave, 1927-1928



9, 10, 11. *Art Structure*.—Principles of design in line, dark and light, and color to develop power of appreciation and creation of good design. Prerequisite for any subsequent course in art structure. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring. Rhodes, Kramer, Wood.

\*16, 17, 18. *Art Appreciation*.

20. *Art Appreciation*.—Illustrated lectures and demonstrations on the history and appreciation of sculpture. Two credits; spring. Pratt.

53, 54, 55. *Art Structure*.—Principles of design applied in batik, tie and dye and wood-block printing. Prerequisite, P.S.D. 9, 10, 11. Lab. fee, \$2. Three credits a quarter; autumn, winter, spring. Kramer.

56, 57, 58. *Drawing and Painting*.—Still life, and cast. Oil painting. Introduction to drawing from life. Prerequisite, P.S.D. 5, 6, 7. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring. Hill.

\*59, 60, 61. *Household Design*.

62. *Essentials of Interior Decoration*.—Lectures on the art of home decoration. Intended to give the general student a practical knowledge of the subject. Illustrated with textiles, furniture, lantern slides. Special lectures and trips. Two credits a quarter; autumn, winter and spring. Foote.

65, 66, 67. *Drawing and Painting*.—Lab. fee, \$1. Prerequisites, P.S.D. 5, 6, 7. Three credits; autumn, winter, spring.

72, 73, 74. *Sculpture*.—Elementary course in modelling clay and wax from casts. Original compositions. Construction of plaster moulds. Lab. fee, \$3. Prerequisite, P.S.D. 5, 10, 11. Three credits a quarter; autumn, winter, spring. Pratt.

80, 81, 82. *Furniture Design*.—Lectures on the history of furniture with the execution of original design for furniture. Prerequisites, P.S.D. 9, 10, 11. Three credits a quarter; autumn, winter, spring. Foote.

101. *Public School Art*.—Elements of interior decoration, adapted to public school art. Prerequisites, P.S.D. 9, 10, 11. Two credits; autumn, winter, spring. Foote.

102. *Public School Art*.—Problems in representation, design, and industrial art. Prerequisites, P.S.D. 53, 54, 55, 56, 57, 58. Adapted to grade, junior high, and high school courses. Methods of presentation. Two credits; winter. Rhodes.

103, 104. *Pottery*.—Lab. fee, \$2. Prerequisite, P.S.D. 5, 6, 7, 9, 10, 11. Three credits a quarter; autumn and winter. Worman.

105. *Art Structure*.—Design as applied to lettering. Prerequisites, 9, 10, 11, and 5, 6, 7. Three credits; winter. Buck.

106. *Art Structure*.—Poster designing. Prerequisite, P.S.D. 5, 6, 7, 9, 10, 11. Three credits; spring. Buck.

107, 108, 109. *Portrait Painting*.—Lab. fee, \$3. Prerequisites, P. S. D. 56, 57, 58. Three credits a quarter; autumn, winter, spring. Patterson.

110, 111, 112. *Interior Decoration*.—Prerequisites, P.S.D. 9, 10, 11, 56, 57, 58, Three credits a quarter; autumn, winter, spring. Foote.

116. *Illustration*.—Prerequisites, P.S.D. 9, 10, 11, 56, 57, 58. Lab. fee, 50c. Three credits; autumn. Rhodes.

\* Not offered 1927-28.

122, 123, 124. *Sculpture*.—Continuation of courses 72, 73, 74, with modeling from the head. Lab. fee, \$3. Prerequisites, P.S.D. 72, 73, 74. Three credits a quarter; autumn, winter, spring. Pratt.

\*126, 127, 128. *History of Painting*.

130. *Pottery*.—Advanced work with emphasis on glazing. Lab. fee, \$2. Three credits a quarter; autumn. Worman.

132, 133, 134. *Advanced Sculpture*.—Modeling from the head or figure. Compositions. Prerequisites, P.S.D. 122, 123, 124. Lab. fee, \$3. Three credits a quarter; autumn, winter, spring. Pratt.

151, 152. *Art Structure*.—Study and history of processes used in the art of the book. Compositions in block print. Lab. fee, \$1. Prerequisite, junior standing. Three credits a quarter; winter and spring. Rhodes.

157. *Metal Work*.—Etching, sawing and hammering of copper and brass. Lab. fee, \$2. Prerequisites, P.S.D. 53, 54, 55. Three credits; autumn. Kramer.

158. *Jewelry*.—Simple problems in silver. Stone setting. Lab. fee, \$5. Prerequisite, P.S.D. 157. Three credits; winter. Kramer.

159. *Jewelry*.—Advanced jewelry. Lab. fee, \$5. Prerequisite, P.S.D. 158. Three credits; winter. Kramer.

160, 161, 162. *Life*.—Lab. fee, \$3. Prerequisite, junior standing. Three credits a quarter; autumn, winter, spring. Patterson.

\*163, 164, 165. *Composition*.

166, 167, 168. *Art Structure*.—Problems in decoration related to the stage. Three credits a quarter; autumn, winter, spring. Kramer.

169, 170, 171. *Costume Design*.—Prerequisites, P.S.D. 9, 10, 11. Lab. fee, \$1. Two credits a quarter; autumn, winter, spring. Storm.

172, 173, 174. *Interior Decoration*.—Advanced problems in interior decoration in elevation and perspective. Five credits per quarter; autumn, winter, spring. Foote.

175, 176, 177. *Advanced Painting*.—Lab. fee, \$3. Prerequisites, P.S.D. 56, 57, 58. Three credits a quarter; autumn, winter, spring. Patterson.

179, 180, 181. *Costume Design*.—Prerequisites, 171. Two credits; autumn, winter, spring. Buck.

#### COURSES FOR GRADUATES ONLY

207, 208, 209. *Portrait Painting*.—In this course the student will do work of ample size and of a professional character. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Patterson.

260, 261, 262. *Advanced Painting*.—An intensive course in painting from life. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Patterson.

\*263, 264, 265. *Composition*.

*Teachers' Course in Methods in Teaching Art*.—See Educ. 160P.

*Commercial Art Courses*.—P.S.D. 9, 10, 11, 105, 106, 116.

\* Not offered 1927-28.

PHARMACY, PHARMACEUTICAL CHEMISTRY, PHARMACOLOGY, TOXICOLOGY,  
MATERIA MEDICA AND FOOD CHEMISTRY

Bagley Hall

*Professors Johnson; Associate Professors Lynn, Langenhan; Assistant Professor Goodrich; Lecturer Osseward; Associate Snidow; Instructor Lofgren and Assistants.*

**1, 2, 3. Theoretical and Manufacturing Pharmacy.**—Principles of pharmaceutical operations, and manufacture of Pharmacopoeial and National Formulary preparations. Two lectures, one quiz and two laboratory periods a week. Lab. fee, \$6.50 a quarter. Five credits a quarter; autumn, winter, spring. (Phar. 1, 2 repeated winter, spring quarters.) Lofgren and assistants.

**4. Commercial Pharmacy.**—Lecture course, covering the commercial problems of the practical pharmacist. Two credits; spring. Osseward.

**5, 6, 7. Drug Assaying.**—Experiments in gravimetric and volumetric analysis. Training in fundamental principles of quantitative analysis with analysis of substances of pharmaceutical importance. Alkaloid assay of crude drugs and assay of volatile oils. Two lectures and three laboratory periods a week; autumn and spring quarters. Five credits; autumn, winter. Four credits; spring. Lab. fee, \$6.50 in autumn and winter quarters, and \$4.50 in spring quarter. Goodrich.

**9, 10, 11. Prescriptions.**—Theory and practical application of extemporaneous compounding. About 200 prescriptions are compounded, illustrating the theory of class room work. One lecture, one quiz, and one laboratory period a week. Lab. fee, \$3 a quarter. Three credits a quarter; autumn, winter, and spring. Snidow and assistants.

**12, 13. Materia Medica.**—Crude organic drugs, their source, methods of collecting and preserving, identification, active constituents and adulterations. Three lectures a week. Three credits; autumn, winter. Goodrich.

**15. Field Materia Medica.**—Native medicinal plants of Washington and plants under cultivation in the drug garden. One laboratory period a week, consisting largely of work in the drug garden and field trips. Lab. fee, \$1. One credit; spring. Goodrich.

**101, 102, 103. Pharmacology and Toxicology.**—Physiological actions of drugs in health and disease; therapeutic uses and posology; symptoms and treatment in cases of poisoning. Two credits a quarter; autumn, winter, spring. Lynn.

**112. Materia Medica.**—Advanced course in materia medica dealing largely with animal drugs and biological products. Three credits; spring. Goodrich.

**113, 114, 115. Advanced Prescriptions.**—Difficult and incompatible prescriptions. Special problems in dispensing, and new and non-official remedies. Manufacture of diagnostic reagents. Two lectures, one quiz and two laboratory periods. Lab. fee, \$6.50 a quarter. Five credits; autumn, winter, spring. Langenhan and assistants.

**117, 118, 119. United States Pharmacopoeia and National Formulary.**—Chemistry and pharmacy of the U.S.P. and N.F. preparations and inorganic chemicals. Two recitations a week. Two credits; autumn, winter, spring. Langenhan.

**125, 126, 127. Current Problems.**—Lectures and recitation in current pharmaceutical problems, commercial and scientific. Use is made of the current number of most of the pharmaceutical journals published in the United States, and of several medical journals. One credit; autumn, winter, spring. Langenhan.

191, 192, 193. *Research Problems in Pharmacy*.—Open to juniors, seniors and graduates. Lab. fee, \$1 per credit hour. One to five credits; autumn, winter, spring. Lynn, Langenhan, Goodrich, Johnson.

195, 196, 197. *Pharmaceutical Chemistry*.—The pharmacy and chemistry of alkaloids, glycosides, oils, volatile oils and other plant and animal principles of pharmaceutical importance. The course will also include the separation and identification of poisons from animal tissue. Two lectures and three laboratory periods. Lab. fee, \$6.50 a quarter. Five credits; autumn, winter, spring. Lynn.

201, 202, 203. *Investigation*.—Graduate students may undertake original investigation in pharmacy, pharmaceutical chemistry, pharmacology, volatile oils and plant principles under the direction of an instructor. Laboratory fee, \$1 per credit hour. Credit to be arranged. Autumn, winter, spring. Lynn, Langenhan, Goodrich, Johnson.

## PHILOSOPHY

### Philosophy Hall

*Professor Savery; Associate Professor ———; Assistant Professor Langford; Associate Brown; Teaching Fellows and Assistants.*

The Liberal Arts requirement is five credits in philosophy. This requirement may be satisfied by any one of the following courses: Philosophy 1, 2, 3, 5. (None of these has any prerequisites.)

Philosophy 1, 2, and 5 are suited to arts-law students.

Psychology 1 is required of majors in philosophy.

Philosophy 2 or 3, 5, and 101-102-103 are required of majors.

At least 50 per cent of the hours in the major must be in upper division courses.

1. *Introduction to Philosophy*.—Not open to freshmen. Five credits; autumn, winter, spring. ———.

2. *Introduction to Social Ethics*.—Social ideals and problems, with special emphasis upon the opposition of democracy and aristocracy in government, industry, law, education, art and religion. Not open to freshmen. Five credits; winter. Savery and assistants.

3. *Introduction to Ethics*.—Moral principles and their application to the problems of life. Not open to freshmen. Five credits; spring. ———, and assistants.

5. *Introduction to Logic*.—Conditions of clear statement, adequate evidence, and valid reasoning, and their establishment in the mental processes of the student. Not open to freshmen. Five credits; autumn, winter, spring. ———.

101-102-103. *History of Philosophy*.—Ancient, medieval and modern. Open to juniors and seniors only. Three credits a quarter; autumn, winter, spring. ———.

104-105-106. *Metaphysics*.—The nature of reality, with special reference to the concepts and principles of science. For advanced students in philosophy or in the sciences. Instructor's permission necessary. Three credits a quarter; autumn, winter, spring. Savery.

113. *Philosophy of Religion*.—(1) The religious experience: the origin, nature and types of religion, and its effect on individual happiness and morality. The social aspect of religion and the religion of democracy. Study

of mystical experiences. (2) The truth of religion: the proofs of the existence of God, the basis of faith, pessimism, optimism and meliorism, immortality. Discussion of agnosticism. Prerequisite, Phil. 1. Five credits; spring. Savery.

\*Oriental Studies. 114, 115, 116. *History of Religion*.

\*123. *Philosophy in English Literature of the Nineteenth Century*.

129. *Esthetics*.—Theories of the nature of Art, the nature of Beauty, and the various sources of esthetic effect. Open only to juniors and seniors. Five credits; autumn. Savery.

133. *Ethical Theory*.—An advanced course in the fundamental concepts and principles of ethics. Prerequisite, Phil. 2 or 3. Two credits; spring. Savery.

141-142-143. *Contemporary Philosophy*.—Modern movements and controversies. Readings and discussions on pragmatism, new intuitionism, mysticism, philosophy of faith, fate and free will, mechanism and vitalism, materialism and idealism, the finite and infinite, the new realism, etc. Prerequisite, Phil. 1 or 101-102-103. Two credits a quarter; autumn, winter, spring.

\*191-192-193. *Advanced Logic*.

#### COURSES FOR GRADUATES ONLY

207-208-209. *Seminar in Philosophy of Science*.—An advanced study of metaphysics. Open to students upon approval of instructor. Two or three credits a quarter; autumn, winter, spring. Savery.

\*227-228-229. *Seminar in Esthetics*.

\*241-242-243. *Seminar in Plato and Aristotle*.

244-245-246. *Seminar in Hume and Kant*.—A critical study. Open to students upon approval of instructor. Two or three credits a quarter; autumn, winter, spring.

247-248-249. *Seminar. The Philosophy of Schopenhauer and Nietzsche*.—The philosophy of the will. The will to live and the will to power. Contrast of Schopenhauer's pessimism and Nietzsche's affirmation of the value of life. Schopenhauer's doctrine of sympathy and Nietzsche's egoism, democratic and aristocratic codes of morality, the saint and the superman. Two or three credits a quarter; autumn, winter, spring.

251-252-253. *Research in Philosophy*.—Open to students upon approval of instructor. One to six credits a quarter; autumn, winter, spring. Staff.

#### PHYSICAL EDUCATION AND HYGIENE FOR MEN

##### Gymnasium

Assistant Professor Arbuthnot, Director; Assistant Professor Foster; Associates Bagshaw, Edmundson, Graves; Professor Hall, University Health Officer.

*Requirements for Graduation*.—All students, both men and women, are required to take a prescribed amount of directed physical training and hygiene or military science and tactics.

\*Not offered in 1927-1928.

*Military Training.*—Requirements in military science and tactics take precedence over the requirements in physical education. (See Military Science and Tactics.)

*Physical Examinations.*—Upon entering college each student is given a physical examination. On the basis of their examination students are segregated in three divisions: A, B, and C.

All able bodied men shall satisfy all requirements in this department with two years of military science and tactics. Students exempt from military training for any reason must take the same number of hours in physical training.

*Requirements for a Major.*—1. Students intending to major in physical education in the School of Education should complete in the freshman year 10 hours in English 1-2, 10 hours in Zoology 1-2, (or 3-4) and 5 hours in physical education 1-2-3 (which may be counted as scholastic credit for men who complete 10 hours in military science or approved substitute); and in the sophomore year, 10 hours in Zoology 127, 128.

2. Students using physical education as a major are advised to complete a second teaching major or two teaching minors (which may be started before entering the School of Education).

3. With the consent of the director of the department, courses in anatomy, physiology, and anthropometry may be counted in a physical education major.

*Intramural Athletics.*—Intramural contests under the supervision of the department are conducted in the following sports; football, basketball, baseball, cross country, tennis, track, boxing, wrestling, relay, handball, and horseshoes. All students are urged to turn out for some sort of athletic competition.

All physical education majors in the School of Education are required to take courses 1-2-3, 101-102-103, 110, 115, 131-132-133. Courses 111, 112, 120, 121, 123, 124 are optional.

The following curriculum is especially arranged for men who plan to prepare for coaching athletics and directing physical education in the public schools. Their first few years of service will be in the smaller high schools where athletic coaching must be combined with teaching academic subjects. Thus it is possible for a student in the School of Education to select athletic coaching either as a major or a minor.

*1-2-3. Calisthenics and Gymnasium.*—Introductory courses for freshmen. One and two-thirds credits a quarter; autumn, winter, spring.

Arbuthnot.

*16-17-18. Intramural Sports and Games.*—For freshmen. One and two-thirds credits a quarter; autumn, winter, spring.

Arbuthnot.

*51-52-53. Calisthenics and Gymnastics.*—For sophomores. One and two-thirds credits a quarter; autumn, winter, spring.

Arbuthnot.

*57-58-59. Intramural Sports and Games.*—For sophomores. One and two-thirds credits a quarter; autumn, winter, spring.

Arbuthnot.

*101-102-103. Athletic Coaching: Gymnastic Terminology.*—Classification of gymnastic material, principles and technique of teaching. Two credits a quarter; autumn, winter, spring.

Foster.

*110. Athletic Coaching: First Aid.*—Treatment of accidents on the athletic field, public playground or in the gymnasium. Two credits; autumn.

Arbuthnot.

*111. Scout Organizations and Management.*—Lectures on aims and

policies of scouting. Some periods will be devoted to camping, camp cooking, hiking, signalling, knot tying, first aid, tree study, troop formations and plans for organizing and conducting a troop. Five credits; winter.

Arbuthnot.

112. *Scout Leadership*.—Study of the text *Community Boy Leadership*, together with a comparison of such standard programs as Boy Scouts, Girl Scouts, Campfire Girls and Woodcraft League. Opportunity will be offered to visit and study local Court of Honor and other phases of activities by Seattle Scouts. Five credits; spring.

Arbuthnot.

113. *Athletic Coaching: Playground Supervision*.—Organization and equipment. Trips to city playgrounds with practice teaching in same. One-hour lecture, three-hour laboratory. Two credits; spring.

Arbuthnot.

\*114. *Physical Diagnosis*.

115. *Athletic Coaching: Organization and Administration*.—Physical methods and tests, organization of departments. Two credits; spring.

Foster.

120. *Athletic Coaching: Football*.—Prerequisite, one regular season's practice in football. Two credits; spring.

Bagshaw.

121. *Athletic Coaching: Theoretical Basketball*.—Prerequisite, one regular season's practice in basketball. Two credits; winter.

Edmundson.

122. *Athletic Coaching: Theoretical Track*.—Prerequisite, one regular season's practice in track. Two credits; winter.

Edmundson.

123. *Athletic Coaching: Theoretical Baseball*.—Prerequisite, one regular season's practice in baseball. Two credits; spring.

Graves.

124. *Athletic Coaching: Theoretical Boxing and Wrestling*.—Prerequisite, one season's practice in boxing or wrestling. Two credits; autumn.

Arbuthnot.

131-132-133. *Athletic Coaching: Theory and practice of corrective gymnastics, deformities, their causes, prevention and treatment. Corrective exercises*. Three credits a quarter; autumn, winter, spring.

Arbuthnot.

*Teachers' Course in Physical Education for Men*.—See Educ. 160S.

## PHYSICAL EDUCATION AND HYGIENE FOR WOMEN

### Gymnasium

*Associate Professor Gross, Director; Assistant Professor Brownell; Lecturer Burdon; Instructors Aid, McGownd; Associates Helmich, Martin; Assistants Jefferson, Rickey.*

The health education requirement for all university women is represented by regular participation in healthful activities and in the lecture course on the fundamentals of healthful and efficient living.

(a) *Healthful Activities*. All women are required to elect some form of healthful activity during the first four quarters of university residence. In order that each student may have the vigorous wholesome activity necessary for promoting health, that she may develop social as well as individual motor skills and have opportunity for aesthetic expression, and that she may learn the elements of, and love for, a recreational hobby which she may continue in after years, it is recommended that she elect one of each of the following groups:

*Group 1. Rhythmic activities.*—Natural dancing, folk dancing, and clog and character dancing.

*Group 2. Individual athletic activities.*—Tennis, golf, archery, canoeing, rifle shooting, and riding.

*Group 3. Group athletic activities.*—Baseball, basketball, volleyball, hockey, and soccer.

*Group 4. Swimming.*

Four quarters of activities are required for graduation. These courses give academic credit. Three additional quarters *may* be taken and will count as other academic credits for graduation.

(b) *Lecture Course in Health Education.* This course is given jointly by the Home Economics Department, Nursing Department, and the Physical Education Department. Its aim is to present the fundamental facts which serve as the basis of a development of intelligent attitudes toward individual, community, racial health.

Courses leading to a major in physical education are listed under professional courses in physical education. For curriculum in Physical Education, see College of Science bulletin, or School of Education bulletin.

#### REQUIRED LECTURE COURSES FOR ALL UNIVERSITY WOMEN

4, 5. *Health Education.*—The development of personal and social attitudes in matters of personal and community hygiene. Study of physiological facts related to these attitudes. Development of a social consciousness regarding personal and future problems in the matter of self-direction. One lecture a week for two quarters or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Burdon.

6, 7. *Health Education.*—The development of the public health program in rural communities and cities. Home care of patients, invalids, and babies. Public health and communicable disease. One lecture a week for two quarters or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Soule.

8, 9. *Health Education.*—Principles of food and nutrition for various age groups. Sources of material and a study of the application of scientific principles. One lecture a week for two quarters, or two, lectures a week for one quarter. One or two credits; autumn, winter, spring. Bliss.

#### ACTIVITY COURSES

61. *Folk Dancing.*—Two hours of practice. One credit a quarter; autumn, winter, spring. Martin.

62. *Clog and Character Dancing.*—Twice a week. One credit; autumn, winter, spring. Martin.

64. *Hockey.*—Two hours of practice. One credit; autumn.

65. *Basketball.*—Two hours of practice. One credit; winter. Helmich.

67. *Elementary Tennis.*—Two hours of practice. One credit; autumn, spring. Helmich.

68. *Soccer.*—Twice a week. One credit; autumn. Martin.

69. *Advanced Tennis.*—Prerequisite, Phys, Educ. 67. Two hours practice. One credit; spring, autumn.



72. *Rifle Shooting*.—Two hours of practice. One credit a quarter; autumn, winter, spring.

75. *Archery*.—Two hours practice. One credit; spring. Aid.

81. *Baseball*. Two hours practice. One credit; spring. Helmich.

82. *Volley Ball*.—Two hours practice. One credit; autumn, spring.

85. *Aquatic Sports*.—Two hours of practice. One credit; spring.

87. *Golf*.—Two hours practice. Fee, \$3.50. One credit; autumn, winter, spring. Martin.  
Jefferson.

88. *Advanced Golf*.—Prerequisite, Phys. Educ. 87. Fee, \$3.50. One credit; winter, spring, autumn. Jefferson.

91, 92, 93. *Natural Dancing*.—Two hours practice. One credit; autumn, winter, spring. Aid.

94. *Riding*.—This course will be given at the Washington Riding Academy. Fee \$6. Twice a week. One credit; autumn, winter, spring. Rickey.

95. *Swimming*.—Two hours of practice. One credit. Fee, \$1. Autumn, winter and spring. Brownell.

*Registration in the following courses is only upon the recommendation of an instructor following medical and physical examination.*

1, 2, 3, *A to F inclusive*. *Corrective Gymnastics*.—One credit autumn, winter, spring. McGownd.

1, 2, 3, *X, Freshman Prescribed Activities*.—One credit; autumn, winter, spring.

51, 52, 53, *X, Sophomore Prescribed Activities*.—One credit; autumn, winter, spring.

#### PROFESSIONAL COURSES IN PHYSICAL EDUCATION

100. *Survey of Physical Education as a Profession*.—Opportunities in the field. Relation of courses. Required of all physical education majors. Two credits; winter. Gross.

101-102. *Methods of Gymnastics*.—Gymnastic terminology. Classification of gymnastic material. Principles and technique of teaching. Prerequisites, or accompanying courses, Anat. 101-102-103 and Physiology 54-55. One hour lecture and two hours practice. Three credits a quarter; winter, spring. Martin.

103. *Natural Gymnastics*.—Drills and gymnastics based on natural technique. Methods of teaching. Use and classification. One hour lecture and two hours practice. Three credits; autumn. Martin.

104-105-106. *Methods of Folk Dancing*.—Dances of the nations arranged for teaching in schools. Technique, methods of teaching, relation of music to dancing. Study of folk festivals, educational values, organization, costuming. Prerequisite, one year of dancing or Phys. Educ. 111, 112, 113. One hour lecture and two hours practical work. Two credits a quarter; autumn, winter, spring. Gross.

111. *Rhythms and Dramatic Games*.—Elementary rhythms, singing games and folk dances. Material, educational value and methods of teach-

ing. Study of their use and significance in child development. One lecture, two hours of practice. Three credits; autumn. Gross.

112. *Elementary Athletic Games*.—Games for the elementary grades and team games for high school age. Efficiency tests for school and playground use. Methods of organization. One hour lecture, two hours practice. Three credits; winter. Gross.

113. *Organization and Administration of Playgrounds*.—Classification of play material, conduct and equipment of play centers. Commercial and municipal recreation; agencies promoting recreational activities. Prerequisite, Phys. Educ. 111, 112. Three lectures a week. Three credits; spring. Gross.

122. *Kinesiology*.—A study of the principles of body mechanics and body movements; the analysis of muscular movement and problems of muscular readjustments in relation to posture. Prerequisites, Anat. 101-102-103 and Physiology 53-54-55. Three credits; spring. McGownd.

131-132-133. *Theory and Practice in Corrective Gymnastics*.—Study of deviations from the normal, remedial gymnastics and application of exercises for correction; kinesiology. Two hour lecture and four hours practice. Prerequisite, Phys. Educ. 101-102, 122 and Physiol. 53-54-55. Anat. 101-102-103. Three credits a quarter; autumn, winter, spring. McGownd.

152. *Administration of Physical Education*.—Curricula for grades and high schools; school administration. Value of various types of activities. Administration problems. Prerequisite, Phys. Educ. 101-102-103, 104-105-106, and 111, 112, 113, and Educ. 160R. Two credits a quarter; winter. Gross.

153. *Methods in Health Education*.—Material and methods in teaching hygiene in the grades. Two hours a week. Two credits; spring. Gross.

154-155-156. *Natural Dancing*.—Technique of natural dancing, based on natural movements. Composition of dance dramas. One hour lecture and two hours practice. Prerequisite, participation in dance drama, or P.E. 91, 92, and upper division standing. Two credits a quarter; autumn, winter, spring. Aid.

157-158-159. *Advanced Natural Dancing*.—Methods in teaching natural dancing and adaptation for various types of classes. Character dancing and study of the characteristics of national groups. Prerequisite, Phys. Educ. 154, 155, 156. Two credits; autumn, winter, spring. Aid.

\*161. *Normal Diagnosis*.

167. *Methods in Teaching Hockey*.—Methods in teaching hockey. Prerequisites, Psych. 1, and knowledge of and participation in hockey. One hour lecture and two hours practice. Three credits; autumn. Helmich.

169. *Methods in Teaching Tennis and Archery*.—Prerequisite, Psych. 1 and knowledge of and participation in both sports. One hour lecture, two hours practice. Three credits; spring. Aid.

170-171-172. *Methods in Teaching Basketball and Baseball*.—Prerequisite, Psych. 1, Educ. 101 and knowledge of game. One hour lecture and two hours of practice. Two credits; autumn, winter, spring.

174-175. *Teachers' Course in Swimming*.—Method of teaching strokes, diving, life saving. Construction and hygiene of the pool. Methods of

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\*Not offered in 1927-1928.

filtration and general organization of programs. One credit each; winter and spring. Brownell.

*\*Public Recreation.*

180. *Campcraft*.—This is a three weeks course given in September at Hidden Cove Camp on Hood Canal. The course represents actual participation in camp organization and in camp activities, practice in soccer, water sports, swimming, canoeing, life saving, camp cooking, and over-night hikes. Required of all majors preferably at end of freshman year. Two credits. Gross and Staff.

*Teachers' Course in Phys. Educ.*—See Educ. 160R.

COURSES FOR GRADUATES ONLY

200. *Seminar*.—Present status of physical education with special reference to a state survey of standards, training of teachers, programs, equipment, schedules, etc. Prerequisite, 30 credits in physical education. Credits to be arranged; autumn, winter, spring. Gross.

201, 202, 203.—*Problems in Physical Education*.—Special problems, including administration of school programs, organization of athletic activities, relation of physical education extra-curricular activities, organization of remedial programs. Problems selected will depend upon personnel of class. Prerequisite 30 credits in physical education. Credits to be arranged; autumn, winter, spring. The Staff.

PHYSICS

Denny Hall

*Professor Osborn; Associate Professors Brakel, Anderson; Associates Newbury, McCarty, and Higgs.*

*Note:* Students, not in engineering, who do not have credit for a year of high school physics, must elect Physics 4, 5, 6. Engineering students without credit for a year of high school physics may elect Physics 97, 98, 99, by registering for Section H in addition. For the present the H section will start with 97 in the autumn only.

1-2. *General Physics*.—Courses 1-2 will satisfy the physical science requirement in the colleges of Liberal Arts and Science. Prerequisite, a full year of high school physics. Lab. fee, \$2. Five credits a quarter; autumn, winter. Osborn.

3. *General Physics*.—Electricity. Required of physics majors, of mathematics majors taking physics as a minor; and of all pre-med students. Prerequisite, Phys. 1-2. Lab. fee, \$2. Five credits; spring. Osborn.

4-5. *General Physics*.—For students without a year of high school physics. These courses will satisfy the physical science requirement in the Colleges of Liberal Arts and Science. Lab. fee, \$2. Five credits; autumn, winter. McCarty.

6. *General Physics*.—Electricity. Prerequisite, Physics 5. Lab. fee, \$2. Five credits; spring. McCarty.

50-51. *Sound and Music*.—For fine arts students only. Lab. fee, \$2. Five credits a quarter; winter, spring. Anderson.

54. *Photography for Amateurs*.—Open to students who have had elementary physics or chemistry. Lab. fee, \$5. Three or five credits; spring. Higgs.

\*Not offered in 1927-1928.

89-90. *Physics of the Home*.—For students in home economics, nursing and women majors in physical education. Lab. fee, \$2. Five credits; autumn and winter. Osborn.

97. *Physics for Engineers*.—Mechanics. Prerequisites, high school physics or enrollment in Section H (See note), and twelve hours of mathematics. Lab. fee, \$2. Five credits; autumn, winter, spring. Brakel, Anderson.

98. *Physics for Engineers*.—Electricity. Prerequisite, Phys. 97. (See note). Lab. fee, \$2. Five credits, autumn, winter, spring. Brakel, Anderson.

99. *Physics for Engineers*.—Light and heat. Prerequisite, Phys. 97. (See note). Lab. fee, \$2. Five credits, autumn, winter, spring. Brakel, Anderson.

101. *Introduction to Modern Theories*.—Atomic structure, properties of electrons and protons, origin and properties of radiation, radio-activity, ionization, presented from the experimental viewpoint. Prerequisite, Phys. 3. Five credits. Two credits for graduate physics students. Autumn. Anderson.

105. *Electricity*.—Prerequisite, Physics 3 or 6. Lab. fee, \$2. Five credits; winter. Brakel.

114. *Electrical Measurement*.—For engineering students. Prerequisite, Phys. 97, 98, 99. Lab. fee, \$4. Three credits; autumn, winter, spring. Brakel.

115. *Application of Photography to Science Work*.—Prerequisite, special permission. Lab. fee, \$5. Three credits; winter. Higgs.

160. *Physical Optics*.—Prerequisite, 20 hours of physics. Lab. fee, \$2. Five credits; spring. Osborn.

167, 168, 169. *Special Problems*.—Students are admitted after consultation with the instructor, credit arranged; autumn, winter spring. Staff.

\*185. *X-Rays and Radio-activity*.—Given 1928-29.

#### COURSES FOR GRADUATES ONLY

200-201-202. *Dynamics*.—Prerequisite, Math. 109. Two credits; autumn and winter. Three credits; spring. Anderson.

\*203-204. *Theoretical Electricity*.—Two credits, autumn; three credits, winter. Brakel.

205, 206. *Vibratory Motion and Sound*.—Prerequisite, Math. 109. Lab. fee, \$2. Two credits, autumn and winter. Osborn.

\*207-208. *Modern Theories*.—Prerequisite, Physic 101 and Math. 109. Two credits, winter; three credits, spring. Anderson.

\*209. *Thermo-Dynamics*.—Two credits, autumn. McCarty.

210-211-212. *Seminar*.

213-214-215. *Research*. Osborn, Brakel, Anderson.

\*216. *Advanced Optics*. Osborn.

\*\*Physics 101 when elected by graduate students is given two credits only.

\*Not offered in 1927-1928.

POLITICAL SCIENCE

Philosophy Hall

*Professors Martin, Schweppe, George, Stuart; Associate Professor Mac-Nair; Assistant Professors Cole\* Mander; Instructor Hulse; Teaching Fellow Warner.*

The courses in political science are offered to meet the needs of the following groups: (1) students seeking sufficient political training to aid them in understanding their civic duties; (2) those desiring courses in political science as a part of their liberal education; (3) students who desire to prepare themselves for positions in the public service, national, state and local, and the foreign service; (4) students seeking courses in political science which are preparatory and supplementary to their work in the following professional schools—law, education, business administration, and journalism; (5) those who desire that systematic and intensive training which will prepare them as teachers or investigators in political science.

*Prerequisites.*—The normal prerequisite for all courses in the department is Political Science 1. For upper division courses, Political Science 51, 52 and 53, and elementary courses in economics, history and sociology are strongly recommended.

*Subject Groups.*—The work of the department is divided into the following groups: I. Political Theory and Jurisprudence; II. International Relations; III. National Government; IV. Local Government. A major student must select any one group as his chief interest before proceeding with upper division courses.

*The Major.*—Candidates for the bachelor's degree with political science as a major must offer 36 credits in political science of which at least 18 shall be in upper division courses.

Major programs must be approved by the department.

Programs must include a sequence of courses amounting to 11 credits in one group and at least five credits in each of the remaining groups.

*Graduate Study.*—For admission to graduate courses and to candidacy for higher degrees, see the announcement of the graduate school. Candidates for higher degrees in political science must register in the graduate seminar during every quarter of their residence, and in two research seminars, one of which must be in the field of the special investigation.

LOWER DIVISION COURSES

Elementary Courses, Primarily for Freshmen.

1. *Comparative Government.*—A study of representative types of government; presidential, parliamentary, federal, unitary. A rapid survey of the governments of the United States, England, France, Switzerland, Germany, and Czecho-Slovakia, comparing them in regard to powers, forms of organization, and function. Brief discussion of political parties, elections, political ideas and foreign relations. Five credits; autumn, winter, spring. Stuart, Martin and Staff.

Intermediate Courses, Primarily for Sophomores

51. *Principles of Politics.*—A study of the origin, form, functions, and nature of the state; its relations to individuals, to other states, and to other social institutions. Five credits; autumn. Martin.

52. *Introduction to Public Law.*—A detailed consideration of the rela-

\*Absent on leave, 1927-1928.

tion of the state to the individual; constitutional guarantees; freedom of speech and of the press; fundamental concepts in constitutional, international, administrative and criminal law. Five credits; winter. George.

53. *Problems of Democracy*.—A consideration of problems peculiar to and growing out of the modern democratic state; problems of the electorate and of parties; popular methods of legislation. Five credits; spring. George.

#### UPPER DIVISION COURSES

##### Required Course on Constitutional Government

101. *Constitutional Government in the United States and in the State of Washington*.—The framing of the American Constitution; the law of the Constitution; the spirit of the Constitution; the Constitution of the State of Washington. No prerequisites. Required of all candidates for the bachelor's degree during their junior or senior years who graduate after January, 1927, except students who take one of the following courses: Pol. Sci. 1; Pol. Sci. 112; Pol. Sci. 153; Law 170 and 171; or one of the following sequences of courses: Pol. Sci. 151 and 163; Hist. 60, 61, 62 and 163-164-165; Hist. 143, 144, 145 and 163-164-165. Two credits a quarter; autumn, winter, spring. Martin, George, Meany.

Prerequisite: Political Science 1. Recommended: Political Science 51, 52 or 53, and one of the following courses: Economics 1, Sociology 1, History 1-2.

##### Group I.—Political Theory and Jurisprudence

111. *History of Political Theory*.—A comparative study of ancient, medieval and modern ideas and institutions of statehood; periods and schools in the development of political thought; recent tendencies. Three credits; autumn. George.

112. *American Political Theory*.—American political ideas and the fundamental characteristics of the American political system; development of political thinking in the United States; ideas of the Revolution, the Constitution, the democracies of Jefferson and Jackson, the controversy over slavery and "states' rights"; recent developments. Three credits; winter. George.

113. *Contemporary Political Thought*.—A study of recent and contemporary political ideas in Europe, America and the Orient; relation of the state to property and labor; questions of sovereignty and allegiance; recent political doctrines, including pluralism, socialism, syndicalism, etc. Three credits; spring. George.

115, 116, 117. *Readings in Political Theory*.—Readings and discussions based on political and legal writings of first importance, on great state papers, and leading court decisions. Two credits a quarter; autumn, winter, spring. George.

118. *Elements of Law*.—The development of some of the more elementary rules of the common law; the definition, sources and sanction of law; the judicial system of the United States and of the state of Washington; law and the public service. Open to pre-legal students in the lower division. Five credits; autumn. George.

119. *Jurisprudence*.—Historical development of the science of jurisprudence; comparative legal systems; legal rights and duties; legal relations; fundamental legal theories; English and American legal institutions. Open to pre-legal students in the lower division. Five credits; winter. Mander.

120. *Introduction to Roman Law.*—The political and sociological implications of Roman law doctrines based upon the Institutes of Justinian, together with a summary of their development in modern continental codes. The course is designed to provide students with a comparative viewpoint so as to enable them to appreciate more clearly the essential characteristics of English legal and political theory. Discussion, lectures, assigned readings. Open to pre-legal students in the lower division. Five credits; spring. Mander.

#### Group II.—International Relations

121. *Foreign Relations of the United States.*—Leading American foreign policies as regards Europe, Latin America and the Far East; the cardinal principles of American diplomacy; recent applications of the Monroe doctrine; the United States and the Great War; the League of Nations, and the Treaty of Versailles; contemporary questions of foreign policy. Three credits; autumn. Stuart.

122. *Administration of American Foreign Affairs.*—Organization of the Department of State; the diplomatic and consular services; American diplomatic machinery and procedure; powers of the President and Senate in foreign affairs; the making and enforcement of treaties; the war powers; American participation in international administrative and judicial agencies. Three credits; winter. Mander.

123. *International Relations.*—Evolution of the modern states system; alliances and the balance of power; leading principles of the European concert; geographic, economic, cultural, racial, psychological and social factors underlying international relations; the problems of diplomacy. Three credits; spring. Mander.

127. *International Organization and Administration.*—Early international federations; unions of nations; international conferences and commissions; international legislation; contemporary efforts at international organization, with special consideration of the League of Nations. Three credits; spring. Mander.

128. *International Relations of the Far East.*—The foreign relations of China and Japan; the rise of Japan as a world power; foreign rights and interests in China; recent international conferences on the Pacific and Far Eastern questions. Three credits; winter. MacNair.

*International Law.*—(See Law 184, 185). *Principles of International Law.*—The general principles of international law as developed by custom and agreement, and as exhibited in decisions of international tribunals and municipal courts, diplomatic papers, treaties, conventions, in legislation, in the works of authoritative writers, and in the conduct of nations. Three credits a quarter; autumn, winter. Martin.

#### Group III.—National Government

151. *American National Government.*—The formation and development of the American constitutional system; government under the colonies; the executive; the Congress; the courts; parties and elections; evolution through court decisions and political practice. Five credits; autumn. MacNair.

152. *American Political Parties.*—Party history; federal and state party organization; nominations and elections; party control of the legislature; the President as party leader; theory of American party divisions; American public opinion; campaign methods; party responsibility; the rise of blocs. Five credits; winter. MacNair.

*153. Introduction to Constitutional Law.*—The American constitutional system; the American judiciary; powers of the federal government; the states and the nation; rights and duties of citizens; fundamental American constitutional doctrines; leading decisions of the supreme court. Five credits; spring. MacNair.

*Constitutional Law.*—See Law 171, 172.

*155. Principles and Law of Public Administration.*—The rights, duties and liabilities of public officers; the public service; relations between politics and administration; rules, regulations and general practices developed in the conduct of administrative commissions and boards; organization of executive departments; administrative problems. Five credits; spring. Hulse.

*156. European Governments and Political Institutions.*—A comparative study of European governments, mainly of the parliamentary type; the responsible ministry; relation between the executive and the legislature; the new governments of Europe. Three credits; autumn. MacNair.

*157. The Growth of Federalism.*—History of federalism; the modern federal state; operation of the federal principle in the United States, Switzerland, Argentine Republic, Brazil and the British Dominions. Three credits; winter. MacNair.

*158. Governments and Politics of the Far East.*—A study of the government and politics of Japan, China, Siam, and of semi-sovereign, federated, and dependent political entities of the Far East. Three credits; spring. MacNair.

#### Group IV.—Local Government

*161. Municipal Government.*—History and growth of cities; forms of city government; the municipal council; the city courts; the city and the state; the charter; reforms in city governments; present-day issues in municipal government. Five credits; autumn. Hulse.

*162. Municipal Administration.*—The mayor; the city departments; the city employees; the civil service; city planning; water supply; streets and parks; waste disposal; health; police; fire protection; city revenues; education; public utilities; traffic regulation. Five credits; winter. Hulse.

*163. State Government and Administration.*—Colonial origins; state constitutions; the governor; the state legislatures; relation of the state to the nation; the states and law; popular methods of legislation; organization and methods of state administration; administrative reorganization of state governments, with special reference to Washington. Five credits; spring. Hulse.

#### COURSES FOR GRADUATES ONLY

*201, 202, 203. Graduate Seminar.*—For candidates for higher degrees in political science. Two credits; autumn, winter, spring. Staff.

*211. Seminar in Political Theory.*—Special subject for investigation: Theories of the Nature of the Union. Two credits; autumn. George.

*221. Seminar in International Law and Diplomacy.*—Special subject for investigation: The Theory and Practice of International Organization. Two credits; winter. Martin.

*251. Seminar in American Government and Politics.*—Special subject for investigation: Current constitutional controversies in the United States. Two credits; autumn. MacNair.



256. *Seminar in Comparative Government.*—Topic: New Governments of Europe. Two credits; winter. Mander.

261. *Seminar in Local Government.*—Topic: Municipal Utilities. Two credits; winter. Hulse.

## PSYCHOLOGY

### Philosophy Hall

*Professor Smith; Associate Professor Guthrie; Associate Professor Esper; Instructor Gundlach; Clinical Assistant, Miss Wilkinson, and Assistants.*

Students in the College of Liberal Arts, as well as in the College of Science, may major in psychology.

The Liberal Arts requirements are five credits in psychology.

Students who have shown an aptitude in psychology, and who consider taking extensive work in this subject, are invited to confer with members of the staff in order to plan their work to advantage.

Majors in psychology may count five hours in Phil. 1 or Phil. 101-102-103 toward satisfying their major requirement.

1. *General Psychology.*—A survey of the science as a whole. Man's original nature, the way in which nature is altered by use, and the common modes of individual and social behavior that result. No prerequisites. Two lectures, two discussion periods, and one two-hour laboratory a week. Fee, \$1. Five credits; course repeated every quarter. Staff.

101. *Physiological Psychology.*—The physical basis of action, thought, and the emotions. A fundamental course for majors and advanced students. Prerequisite, Psych. 1. Three credits; winter. Esper.

102. *The Neural Basis of Behavior.*—Contemporary neurological theory concerning the regulatory functions and learning. Prerequisite, Psych. 1 and 101. This course may be taken in conjunction with 101. Two credits; winter. Esper.

106. *Experimental Psychology.*—Students receive training in laboratory methods, are made familiar with the more important kinds of psychological apparatus, and perform many of the classical experiments in psychology. Prerequisite, Psych. 1. Three credits; winter. Esper.

107. *Advanced Experimental Psychology.*—Prerequisite, Psych. 106. Three credits; spring. Esper.

108. *Essentials of Mental Measurement.*—Ways in which experimental results are evaluated and treated. A knowledge of the subject matter of this course is necessary to the critical appreciation of all experimental findings. Required of majors in psychology. Prerequisite, Psych. 1. Five credits; winter. Guthrie.

109. *Mental Tests.*—Principles of experimental procedure. The preparation, evaluation, and application of tests. Essential to work in clinical psychology. Prerequisite, Psych. 1 and 108. Five credits; spring. Smith.

111. *History of Psychology.*—Origin and development of psychology, beginning with the primitive conception of mind, and including a comprehensive view of the sources of scientific psychology. Prerequisite, Psych. 1. Two credits; autumn. Guthrie.

112. *Modern Psychological Theory.*—A criticism and comparison of the theories of living American and foreign psychologists in the light of

recent experimental findings. This may be taken to advantage concurrently with 113. Prerequisite, Psych. 1. Three credits; spring. Guthrie.

113. *Structural Psychology*.—The nature and analysis of consciousness and the relation of consciousness to behavior. Two credits; spring. Gundlach.

114. *Current Psychological Literature*.—Reading and discussion in the direction of the student's particular interest, acquainting him with a wide range of subjects and the new developments in psychology treated in recent books and journals. Prerequisite, Psych. 1. Five credits; winter. Guthrie.

116. *Animal Behavior*.—A course in comparative psychology dealing with the beginnings and development of mind, as shown in the behavior of animals under natural conditions and in the laboratory. Prerequisite, Psych. 1. Three credits; autumn. Gundlach.

117. *Superstition and Belief*.—Why we are superstitious. The psychological analysis and the historical development of certain false opinions. Prerequisite, Psych. 1. Two credits; winter. Smith.

118. *Folk Psychology*.—A psychological study of social human nature; language, custom, public opinion, morals, war, family, caste, nationalism, religion. Prerequisite, Psych. 1. Five credits; autumn. Guthrie.

120. *Psychology of Beauty*.—The nature of appreciation and an analysis of the factors which bring it about. Prerequisite, Psych. 1. Two credits; autumn. Guthrie.

121. *Applied Psychology*.—Psychology as applied to such fields as personal efficiency, vocational guidance, scientific management, social work, law, medicine, athletics, and business. Prerequisite, Psych. 1. Five credits; winter. Esper.

124. *Psychology of Learning*.—How habits are formed. Efficiency in learning, transfer of training, recent experimental findings. Prerequisite, Psych. 1. Five credits; autumn.

126. *Abnormal Psychology*.—Description and explanation of abnormal behavior. Psychoneuroses, automatisms, "The Unconscious," dreams, and sleep. Prerequisite, 10 credits in Psychology. Five credits; spring. Guthrie.

131. *Child Psychology*.—Individual and social development and their causes, from infancy to adult age, with the purpose of giving the student a scientific understanding of childhood. Prerequisite, Psych. 1. Five credits; autumn. Smith.

132. *Psychology of Exceptional Children*.—The nature and causes of genius, mental defect, and peculiarities in childhood, with special reference to diagnosis and training. Prerequisite, Psych. 1. Three credits; spring. Smith.

151, 152, 153. *Undergraduate Research*.—An opportunity, for promising students, to begin experimental work under direction. Prerequisite, 15 credits in Psych. and permission of the department. Three credits each quarter. Staff.

#### COURSES FOR GRADUATES ONLY

Before a student registers for graduate courses, his topic for research must be approved by the department.

201, 202, 203. *Graduate Research*.—Each quarter. Staff.

211, 212, 213. *Seminar*.—Open to all research students and majors. Two credits each quarter. Staff.

## ROMANIC LANGUAGES AND LITERATURE

Denny Hall

*Professors Frein, Ober, Umphrey; Associate Professors Patzer, Goggio; Assistant Professors Helmlinge, DeVries; Instructors Whittlesey, Garcia-Prada, Sanchez; Associates Hamilton, Simpson, Wilson, Southwick; Teaching Fellows Cartwright, Boutelle, Grove, C. Wilson.*

Students entering with high school credits in French or Spanish will be admitted to classes upon the basis of one high school semester counting as the equivalent of one University quarter.

If, for any reason, a student who has done one year of French in high school needs to enter French 2 he will be given university credit therefor, but he will be required to finish French 3, 4 and 7 in fulfillment of the language requirement.

Exceptional cases will be determined by the executive officer of this department.

Students may not begin French I and Spanish I (nor Italian), during the same quarter; and it is better to have three quarters of one Romanic language before beginning another. If the entrance requirement in foreign language has not been fulfilled, no credits will be given for Courses 1, 2, 3, 4, and 7 in any of the Romanic languages. Freshmen and sophomores may enter any course, except graduate, for which they have the prerequisites. Graduate students working for the master's degree and offering a minor in French or Spanish will do not less than is required of majors working for the A.B. degree in this department.

## I. FRENCH

Requirements of the department. Majors who wish to be recommended to teach French shall be required to take French 41, 101, 102, 103 or 107, 158, 159, Educ. 160T, and electives amounting to 9 or 10 credits in courses in French literature numbered above 117. At least 4 of the 9 or 10 credits shall be in courses in literature conducted in French.

*1-2, 3. Elementary.*—As much as possible French will be used in the class room. Each of the courses 1, 2, 3, is repeated each quarter. No credit will be given for French 1 until 2 has been completed. Five credits a quarter; autumn, winter, spring.

*4, 5, 6. Reading of Modern Texts.*—Each of the courses 4, 5, 6, is repeated each quarter. French 4 may be combined with 7, making a five-hour course. The same is true of 5 and 8, 6 and 9. Prerequisite to French 4 is 3, or equivalent. Three credits a quarter; autumn, winter, spring.

*7, 8, 9. Grammar and Composition.*—Each of the courses 7, 8, 9 is repeated each quarter. Must be taken by majors in French, unless they have done the equivalent in high school. French 7 may be combined with 4. The same is true of 8 and 5, 9 and 6. Prerequisites to French 7 is 3, or equivalent. Two credits a quarter; autumn, winter, spring.

*41. Phonetics.*—Intended to furnish the student an opportunity to acquire a reasonably correct pronunciation and to bring more order out of what seems a mass of exceptions. Prerequisite, French 3. Three credits; repeated each quarter. Frein.

*71, 72, 73, or 137, 138, 139. Scientific French.*—For students in science. Reading in their special lines will be assigned by the head of their department, but the examinations will be given by this department. Two credits. Students of the lower division should register for French 71, 72,

73; those of the upper division for French 137, 138, 139. Prerequisites, French 6 and 9 or an equivalent. Whittlesey.

101, 102, 103. *Composition and Conversation*.—With each of these courses is offered (at the same hour, but not on the same days) a course in advanced reading. See French 104, 105, 106. Prerequisites, French 6 and 9. Three credits a quarter; autumn, winter, spring.

Patzer, Helmlinge, DeVries, Whittlesey, Hamilton, Simpson.

104, 105, 106. *Advanced Reading*.—Courses to be taken with 101, 102, 103, if so desired to make five-hour courses. Prerequisites, French 6 and 9. Two credits a quarter. French 101 and 104, 102 and 105 are offered each quarter; 103 and 106 are not offered in the autumn quarter.

Patzer, Helmlinge, DeVries, Whittlesey, Hamilton, Simpson.

107. *Themes*.—Writing of original compositions upon assigned topics. Prerequisite, French 103, or 102 with grade of A. Those taking French 107 are not required to offer 103. Three credits; spring. Helmlinge.

118, 119, 120. *Survey of French Literature*.—Lectures in English and collateral reading of English translation. Those who have studied French sufficiently will be assigned French texts to read. No prerequisites. Three credits a quarter; autumn, winter, spring. DeVries.

121, 122, 123. *French Novel*.—A history of the novel from its inception to modern times. Reading outside of class with reports in class. Certain novels, representing types, assigned to all for reading and discussion. Prerequisite, French 6 and 9, or equivalent. Three credits per quarter; autumn, winter, spring. Helmlinge.

\*124, 125, 126. *The Short Story*.

127, 128, 129. *Advanced Conversation for Majors*.—Open only to majors and to those who, by their preparation, could qualify as majors. Careful preparation for each day's exercise will be required, and full credit given. Prerequisites, French 103 and 106, or equivalent. Two credits a quarter; autumn, winter, spring. Helmlinge.

131, 132, 133. *Lyric Poetry*.—Conducted in French. The best lyrics since the sixteenth century, especially those of Lamartine, Hugo and Musset. Rules of French versification. Prerequisite, French 106 or equivalent. Two credits a quarter; autumn, winter, spring. Helmlinge.

\*141, 142, 143. *The French Drama*.

151, 152, 153. *History of the French Literature of the Nineteenth Century*.—Lectures in French and assignments of reading to be done outside of class. Prerequisites, French 6 and 9 or equivalent. Three credits a quarter; autumn, winter, spring. DeVries.

154, 155, 156. *Contemporary French Literature*.—A survey of French literature from 1900 to date. Lectures and assigned reading. Course conducted in English. Assigned reading in French for those who can read French; in English translation for those who do not know French. Prerequisite: Any student may enter this class if he has junior standing. Any freshman or sophomore may enter if he has had French 6 and 9, or equivalent. Two credits; autumn, winter, spring. Patzer.

158, 159. *Advanced Syntax*.—French Syntax from the teacher's stand-

\*Not offered in 1927-1928.

point. These courses are prerequisites to the teachers' course. Prerequisite, French 103 or 107. Two credits a quarter; autumn, winter. Frein.

\*161, 162, 163. *Eighteenth Century Literature.*

171, 172, 173. *Seventeenth Century Literature.*—Lectures in French, assigned reading and reports. Prerequisite, French 6 and 9, or equivalent. Three credits a quarter; autumn, winter, spring. Patzer.

*Teachers' Course in French.*—See Educ. 160T.

#### COURSES FOR GRADUATES ONLY

201, 202, 203. *Middle French and Sixteenth Century.*—Masterpieces of the fourteenth, fifteenth and sixteenth century will be read, and their influence upon later French literature studied. Open to graduates who have studied French at least four years. Two credits a quarter; autumn, winter, spring. Frein.

\*211, 212, 213. *French Criticism.*

221, 222, 223. *Old French Readings.*—One of the most helpful courses for teachers of French. Open to graduates who have studied French at least four years. Five credits a quarter; autumn, winter, spring. Goggio.

\*231, 232, 233. *History of Old French Literature.*

241, 242, 243. *French Historical Grammar.*—Phonology, morphology, and the most necessary rules of Old French syntax. Open to graduate majors of this department, to all graduates who can read Old French, and to all graduates who have had four years of Latin and, at least, two years of modern French. Three credits a quarter; autumn, winter, spring. Frein.

#### II. ITALIAN

No student will be allowed to begin Italian and French, or Spanish, the same year.

1-2, 3. *Elementary.*—No credit will be given for Ital. 1 until 2 has been completed. Ital. 1 is repeated in winter and 2 in the spring. Five credits a quarter; autumn, winter, spring. Goggio.

\*111, 112, 113. *Modern Italian Literature.*

\*118, 119, 120. *Survey of Italian Literature in English.*

121, 122, 123. *The Italian Novel.*—History of the novel from its beginning. Prerequisite, Italian 3, or 2 with grade of A or B. Three to five credits a quarter; autumn, winter, spring. Goggio.

181, 182. *Dante.*—In English. Open to all. The Divine Comedy will be read and studied so as to draw from it Dante's imaginative and philosophical ideas as related to medieval thought. Two credits a quarter; autumn and winter. Goggio.

184. *Renaissance Literature of Italy.*—Emphasis will be laid upon the literary works of Petrarch and Boccaccio especially, but the works of Machiavelli, Castiglione, Ariosto, Cellini, and Tasso will be read and discussed. Lectures in English. Reading in English, or Italian if the student can read Italian. Two credits; spring. Goggio.

\*Not offered in 1927-1928.

## COURSES FOR GRADUATES ONLY

201, 202, 203. *Early Italian Literature*.—Open to all graduates who can read Italian. Research, according to the ability and special interests of the student. Three to five credits; autumn, winter, spring. Hours to be arranged with each student. Goggio.

## III. SPANISH

Requirements of the department: Spanish 159, 101, 102, 103, Educ. 160U, and at least 9 credits of literature are required of majors and of all who wish to be recommended as teachers. Freshmen and sophomores may enter any course, except graduate, for which they have the prerequisite.

1-2, 3. *Elementary*.—Each of the courses 1, 2, 3 is repeated each quarter. No credit will be given for Span. 1 until 2 has been completed. Five credits a quarter; autumn, winter, spring.

4, 5, 6. *Reading of Modern Authors*.—Reading of some of the best works of the nineteenth century. Span. 4, 5, 6 may be combined with 7, 8, 9, making a five-hour course each quarter. Prerequisite, to Span. 4 is 3 or equivalent. Three credits a quarter; autumn, winter, spring.

7, 8, 9. *Grammar, Composition, Conversation*.—May be combined with Span. 4, 5, 6, making a five-hour course. Prerequisite to Span. 7 is 3. Span. 7 is prerequisite to 8. Two credits a quarter; autumn, winter, spring.

101, 102, 103. *Advanced Composition*.—Prerequisite, Span. 9. Three credits a quarter; autumn, winter, spring.

Garcia-Prada, Sanchez, Wilson.

104, 105, 106. *Advanced Reading*.—Prerequisite, Spanish 6 and 9. This course should be taken with Span. 101, 102, 103. Two credits a quarter; autumn, winter, spring.

Garcia-Prada, Sanchez, Wilson.

118, 119, 120. *Survey of Spanish Literature*.—Selected texts, collateral readings, lectures. Prerequisite, Span. 6. Two credits a quarter; autumn, winter, spring. Umphrey.

121, 122, 123. *The Novel*.—The origins of the Spanish novel and its development. Reading of selected texts. Collateral readings and reports. Prerequisite, Span. 104, or equivalent. Three credits per quarter; autumn, winter, spring. Umphrey.

\*131. *Lyric Poetry*.

\*141, 142, 143. *Spanish Drama*.

159. *Advanced Syntax*.—Problems in syntax studied from the teacher's standpoint. Prerequisites, Span. 101, 102. Three credits; spring.

Ober.

184, 185, 186. *Spanish American Literature*.—Representative writings of Spanish American authors. Collateral reading and reports. Lectures. Prerequisites, Span. 104, or equivalent. Three credits a quarter; autumn, winter, spring. Umphrey.

*Teachers' Course in Spanish*.—See Educ. 160U.

## COURSES FOR GRADUATES ONLY

221. *Old Spanish Readings*.—Reading and linguistic study of the Poema de mio Cid and other Old Spanish texts. Five credits; autumn. Umphrey.

\*Not offered in 1927-1928.

231. *Epic Poetry*.—The epic material in Old Spanish literature and its later treatment in poetry and drama. Topics are assigned for special investigation and report. Five credits; winter. Umphrey.

241. *Spanish Historical Grammar*.—Five credits; spring. Umphrey.

#### COMPARATIVE PHILOLOGY

The following courses in comparative philology are available in the department of Scandinavian Languages and Literature:

190-191. *Introduction to the Science of Language*.—Two credits; autumn, winter. Vickner.

192. *Life of Words*.—Two credits; spring. Vickner.

#### SCANDINAVIAN LANGUAGES AND LITERATURE

Denny Hall

Professor Vickner

1-2-3. *Elementary Swedish*.—Grammar and reading; composition and conversation. Courses 1-2-3 are so arranged that they may be taken with 4, 5, 6, making a five-hour course. Three credits a quarter; autumn, winter, spring. Vickner.

4-5-6. *Swedish Reading Course for Beginners*.—Reading of easy texts. Supplementary to courses 1, 2, 3, but may also be taken separately by students desiring a reading knowledge of Swedish. No previous knowledge of Swedish necessary. Two credits a quarter; autumn, winter, spring.

10-11-12. *Elementary Norwegian-Danish*.—Grammar and reading; composition and conversation. Courses 10, 11, 12 are so arranged that they may be taken with 13, 14, 15, making a five-hour course. Three credits a quarter; autumn, winter, spring. Vickner.

13-14-15. *Norwegian-Danish Reading Course for Beginners*.—Reading of easy texts. Supplementary to 10, 11, 12, but may also be taken separately by students desiring a reading knowledge of Norwegian-Danish. No previous knowledge of Norwegian-Danish necessary. Two credits a quarter; autumn, winter, spring. Vickner.

20, 21, 22. *Norwegian-Danish Literature*.—Representative authors will be read. Prerequisite, ability to read easy Norwegian or Danish. May be entered at the beginning of any quarter. Two credits a quarter; autumn, winter, spring. Vickner.

23, 24, 25. *Swedish Literature*.—Representative authors in connection with a survey of the Swedish literature. Prerequisite, ability to read easy Swedish. May be entered at the beginning of any quarter. Two credits a quarter; autumn, winter, spring. Vickner.

103, 104, 105. *Recent Swedish Writers*.—Representative writers of the nineteenth and twentieth centuries, including Strindberg, Fröding, Selma Lagerlöf. Prerequisite, relatively fluent reading knowledge of Swedish. May be entered any quarter. Two credits a quarter; autumn, winter, spring. Vickner.

106, 107, 108. *Recent Norwegian-Danish Writers*.—Representative writers of the nineteenth and twentieth centuries are read, including Ibsen, Björnson, Kielland, Jacobsen, Hansun, Bojer. Prerequisite relatively

fluent reading knowledge of Norwegian-Danish. May be entered any quarter. Two credits a quarter; autumn, winter, spring. Vickner.

109, 110, 111. *Modern Scandinavian Authors in English Translation.*—Ibsen, Björnson, Strindberg, Selma Lagerlöf and Hamsun. Open to all. No knowledge of the Scandinavian languages necessary. May be entered any quarter. One credit a quarter; autumn, winter, spring. Vickner.

180, 181, 182. *Recent Scandinavian Literature in English Translation.*—The principal writers of recent Scandinavian literature will be read. Lectures, reports and discussion. No knowledge of the Scandinavian languages necessary. May be entered at the beginning of any quarter. Two credits; autumn, winter, spring. Vickner.

#### COURSES FOR GRADUATES ONLY

\*201-202. *Old Icelandic.*

\*203-204. *History of the Swedish Language.*

205-206. *Scandinavian Literature in the Nineteenth Century.*—Two credits a quarter; winter, spring. Vickner.

\*208. *Scandinavian Lyric Poetry.*

\*209. *History of Scandinavian Literature.*

#### COMPARATIVE PHILOLOGY

190-191. *Introduction to the Science of Language.*—General principles of linguistic development with special reference to English. Lectures and discussions. Prerequisite, some knowledge of one of the classical languages and of one modern foreign language or Old English. Two credits; autumn, winter. Vickner.

192. *Life of Words.*—Etymology and semasiology; growth of vocabulary; word values. Lectures, discussions, and exercises. Prerequisite, same as for courses 190-191. This course is a continuation of courses 190-191, but may be taken separately. Two credits; spring. Vickner.

#### SOCIOLOGY

##### Philosophy Hall

*Professors Woolston, McKenzie; Assistant Professors Price, Hayner, Stern; Associate Hathway; Assistant Schmid.*

Sociology treats of the development, organization and function of human groups. Its general purpose is to explain the relations of institutions; to stimulate a critical and constructive attitude toward programs of reform and furnish a sound basis of information for intelligent citizenship. It prepares for advanced study, field investigation, teaching and administration in community and industrial welfare, law, diplomacy, journalism, public health and institutional management; and supplements specialized training along these lines.

Sociology is related to many problems treated in biology, psychology, history, economics, politics, education, home economics, and literature. Majors are urged to consult members of the department staff regarding their elections. Work in other departments may be essential for success in this field, and may, when approved, be credited toward advanced requirements. Students should consult the department of sociology leaflet for a list of basic and supplementary courses.



Students are advised to postpone work in sociology until lower division requirements in biology, psychology, economics and political science are completed. *Sociology 1 or its equivalent is prerequisite, for those majoring or taking systematic work in the department, and satisfies minimum requirements in this subject. The following are fundamental for advanced work and should be taken by major students before electing special lines: Courses 55, 66, 131.*

Further work is arranged along these lines:

A. Social Problems and Methods of Reconstruction offer prevocational instruction leading to two general lines of social work:

- (1) *Case and Group Work*
- (2) *Community Organization*

B. Social Theory and Methods of Investigation offer preliminary training and background for vocational use as follows:

- (1) *Teachers of Social Science*
- (2) *Social Investigation*

A plan for sequence of courses preparing for each of these lines of work may be found in the department of sociology leaflet.

For a major in sociology a minimum of 36 credits is required. At least 50 per cent of the hours in the major must be in upper division courses. Upper division courses should not be elected before such elementary work as instructors in special fields may suggest is completed. Courses numbered over 200 are for graduates. Advanced students are required to secure the approval of their program by the executive officer of this department before completing their registration. Graduate students must complete undergraduate requirements before being accepted as candidates for the master's or doctor's degree in sociology.

1. *Introductory Sociology.*—General survey of social relations, with discussion of the forces, practical problems and methods of solution. Required of all students who major in the department. Fee, \$1.50. Five credits; autumn, winter, spring. Stern.

55. *Human Ecology.*—Factors and forces which determine the distribution of people and communities. A study of ecological concepts and processes: position, location, mobility, dominance, aggregation, segregation, centralization, invasion, succession. Five credits; autumn. McKenzie.

56. *The Family.*—Family and marriage customs among preliterate peoples; processes and mechanisms of family interaction; the family as an institution; the home; the family and the community; family disorganization and reorganization. Materials fee, \$1.50. Three credits; winter. Hayner.

57. *Child Welfare.*—Rights of childhood to health, education, recreation, protection; measures now in use to secure them. Three credits; winter. Hathway.

61. *The Small Town.*—Setting, organization and collective behavior of minor urban groups. Pioneer industrial and commercial settlements in Washington. Three credits; spring. McKenzie.

62. *Play and Leisure Time.*—The fundamental patterns, commercialization, institutional organization and ecology of recreational activity. Materials fee, \$1.50. Three credits; spring. Hayner.

63. *Community Organization.*—Social conditions and theories that un-

derlie the modern community organization movement. Experiments and methods that have evolved to prevent disorganization. Case studies of attempts at community organization. Three credits; spring. Hathway.

64. *Field of Social Work*.—Historical background and development of social work as a specialized field. Present scope, aims and methods. Typical problems and agencies; field trips. Three credits; autumn. Hathway.

65. *The City*.—Factors determining the growth, structure and composition of cities. Case studies of typical cities throughout the world. Should if possible be preceded by Soc. 55. Five credits; winter. McKenzie.

66. *Group Behavior*.—Why associated persons act in characteristic manner. Analysis of conditioning factors and collective response in typical social groups, crowds, assemblies, parties, sects, etc. Prerequisite, five hours psychology and five hours sociology. Five credits; autumn. Woolston.

67. *Urban Attitudes*.—Development of habits and standards in cities. Circumstances and interests controlling urban groups; economic, political and cultural peculiarities. Prerequisites, five hours psychology and five hours sociology. Five credits; winter. Woolston.

68. *National Traits*.—Traditional differences between peoples. Historic backgrounds and prejudice. Problems of assimilation and amalgamation in America. Prerequisite, five hours psychology and five hours sociology. Five credits; spring. Woolston.

80. *Social Pathology*.—The social factors involved and methods of dealing with physical defectiveness, feeble-mindedness, insanity, narcotics, alcoholism, prostitution, poverty, vagrancy, juvenile and adult delinquency. Five credits; autumn. Hayner.

†103. *Problems of Maladjustments*.

\*105. *Industrial Groups*.

130. *Social Surveys*.—Methods of planning, conducting, and presenting results of investigations of communities and institutions. Critical consideration of current methods. Lectures, problems and field work. Five credits; autumn. Stern.

131. *Social Statistics*.—Methods and sources for quantitative investigation, as applied to ethnography, demography, vital statistics, social maladjustment, and their related fields. Prerequisite Math. 13 or equivalent. Five credits; winter. Stern.

132. *Social Aspects of Publicity*.—Technique of preparing and exhibiting sociological data pertaining to community problems. Publicity devices, exhibits and campaigns. Five credits; spring. Stern.

140. *Population*.—A study of growth, composition and distribution of world populations. Three credits; autumn. McKenzie.

141. *Migration*.—A study of human migrations, the factors determining them and the problems arising therefrom. Three credits; winter. McKenzie.

142. *Race Contacts*.—Racial invasion, conflict and accommodation; amalgamation and assimilation of races; public opinion and race prejudice. Five credits; spring. McKenzie.

†Offered in extension as a correspondence course.

\*Not offered in 1927-1928.

150. *General Sociology*.—Major concepts of sociology and the scientific point of view in dealing with social phenomena. Prerequisite, junior standing and completion of Soc. 1 or 10 hours in social science and psychology. Five credits; autumn. Price.

151. *Social Conflict*.—Meaning, causes, types and significance of social conflict. Analysis of conflict situations. Five credits; winter. Price.

152. *Social Control*.—Technique of corporate action—meaning, process, and agencies of social control. Five credits; spring. Price.

153. *Problems of Poverty*.—History of poverty and relief. Individual and social causes underlying destitution. Modern methods of approach to problems of prevention and relief. Three credits; autumn. Lundberg.

154. *Charity Organization and Administration*.—Principles and problems of public and private relief administration. Units of administration and supervision. Survey and evaluation of current types of organization and administration. Three credits; winter. Lundberg.

155. *Social Legislation*.—History, principles and trends of social legislation. Critical study of representative types of programs. Three credits; spring.

156. *Criminology*.—Social, economic and hereditary causes of crime. Study of the criminal and his group relations. Three credits; winter. Hayner.

158. *Personality Problems*.—Survey of the literature on personality; case studies of personality problems. Materials fee, \$1.50. Two credits; spring. Hayner.

159. *Penology*.—History and methods of punishment; various theories and plans of prison reform; rehabilitation of the criminal. Field trips to penal institutions. Should be preceded by Soc. 156. Three credits; spring. Hayner.

160. *Liberty*.—Nature; frustration by physical and mental conditions; programs for advancement; possibilities of progress. Three credits; autumn. Woolston.

161. *Equality*.—Economic handicaps: charity; preventive measures; constructive philanthropy; radical programs. Three credits; winter. Woolston.

162. *Fraternity*.—Moral obstacles; vice, crime and war; methods of repression; amelioration and reconstruction of attitudes. Three credits; spring. Woolston.

164. *Social Education*.—Purpose, content and method of courses intended to promote good citizenship. Critical discussion of programs and texts used in Washington schools. Recommended for teachers of social science subjects. (Prerequisite, fifteen hours social science). Two credits; spring. Woolston.

171-172. *Social Case Work*.—Principles and methods of family case work; specialization of methods in care of the sick, children, the homeless, etc. Two hours class work, twelve hours supervised field work with local agencies. Permission of instructor required for admission. Five credits; autumn, winter. Hathway.

174. *Club Organization and Leadership*.—Social and psychological factors influencing development of adolescents. Basis of selection of group activities. Analysis of local and national programs. Two hours class;

eight or twelve hours of supervised field work with local agencies. Prerequisite, fifteen hours of sociology and psychology. Three or five hours credits; spring. Hathway

191-192-193. *Advanced Field Work*.—Methods of social work in a selected field. Two hours class; twelve hours supervised field work. Prerequisite, 171-172 or equivalent. Five credits; autumn, winter, spring. Hathway.

194. *Early Social Thought*.—Primitive times to St. Augustine. Social thought in China, Japan, India, Persia, Babylon, Palestine, Egypt, Greece, Rome, Peru, Mexico. Three credits; autumn. Price.

195. *Middle Social Thought*.—To Spencer. Social thought in pre-Renaissance, Renaissance, Reformation, Revolution and Evolution periods. Three credits; winter. Price.

196. *Recent Social Thought*.—Since Spencer. Emphasis on men now living in England, France, Germany, Russia and America. Conceptual approach; not chronological as in Soc. 194 and 195. Three credits; spring. Price.

#### COURSES FOR GRADUATES ONLY

200. *Secret Societies*.—Growth, organization and activity of mystery groups—fraternal, religious, craft and political. For advanced students in social psychology. Two credits; autumn. Woolston.

201. *Public Opinion*.—Character and operation of beliefs formed by general discussion. Problems of propaganda, criticism and education. Advanced students only. Two credits; winter. Woolston.

207-208-209. *Community Research*.—Original investigation of special community problems. Prerequisite, graduate standing. Two credits a quarter; autumn, winter, spring. McKenzie.

#### ZOOLOGY

##### Science Hall

*Professor Kincaid; Associate Professor Guberlet; Assistant Professors E. V. Smith, Miller, Hatch.*

1-2. *Elements of Zoology*.—General review of zoological science, stressing the philosophic and economic aspects of the subject. Lab. fee, \$2. Five credits a quarter; autumn, winter, repeated winter, spring. Kincaid, Hatch and Assistants.

3-4. *Pre-Medical Zoology*.—For students entering a medical course. Lab. fee, \$2. Five credits a quarter; autumn, winter. Guberlet.

5. *General Embryology*.—Comparative developmental history of animals, with emphasis on vertebrate forms. Prerequisite, Zool. 1-2, or 3-4. Lab. fee, \$2. Five credits; spring. Guberlet.

16. *Evolution*.—Lectures on the more important biological problems related to the general theory of evolution. Two credits; autumn. Kincaid.

17. *Eugenics*.—Principles of evolution in their relation to human welfare. Two credits; spring. Kincaid.

101. *Cytology*.—The structure and activities of the animal cell with special reference to problems of development, sex-determination, and heredity. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$2. Five credits; spring. Miller.

102. *Experimental Zoology*.—An experimental study of the organism as a dynamic unit, including problems of development, growth and regeneration, and response to external factors. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$2. Five credits; spring. Miller.

106. *Plankton*.—Classification, adaptations and interrelationships of the microscopic fauna of the sea. Field work in Puget Sound. Prerequisite, Zool. 1-2. Lab. fee, \$2. Five credits; autumn. Kincaid.

107. *Parasitology*.—Animal parasites. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$2. Five credits; spring. Guberlet.

108. *Linnology*.—Classification and interrelationship of the organisms found in lakes and streams. Field work in the neighboring fresh-water bodies. Prerequisite, Zool. 1-2. Lab. fee, \$2. Five credits; spring. Kincaid.

111. *Entomology*.—The structure, classification and economic relations of insects. Prerequisite, Zool. 1-2 or equivalent. Lab. fee, \$2. Five credits; spring. Hatch.

121. *Microscopic Technique*.—Methods of imbedding, sectioning and staining animal tissues. Prerequisite, Zool. 1-2 or its equivalent. Lab. fee, \$2. Three credits; winter. Guberlet.

127, 128. *Comparative Anatomy*.—Comparative structure of the vertebrate animals. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$3.50. Five credits a quarter; autumn, winter. Miller.

125, 126. *Invertebrate Zoology*.—The morphology, physiology, life history and habits of invertebrate animals, with special reference to the local marine fauna. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$3.50. Five credits a quarter; autumn, winter. Miller.

\*\*155-156-157. *Elementary Problems*.—Students will be assigned minor problems under direction of an instructor in the department. Prerequisite, twenty hours in zoology or physiology. Lab. fee, \$2. Three credits; autumn, winter, spring. Staff.

*Teachers' Course in Zoology*.—See Educ. 160Z.

#### COURSES FOR GRADUATES ONLY

201-202-203. *Research*.—Students capable of carrying on independent work will be assigned problems under direction of an instructor. Prerequisite, twenty-five hours of zoology. Credit to be arranged. Lab. fee, 50c per credit hour. Staff.

205, 206, 207. *Advanced Problems*.—Designed especially for graduate students working for the doctor's degree. Hours and credits to be arranged. Staff.

210, 211, 212. *Seminar*.—Reports and discussions of current zoological literature. The history of zoology. One credit; any quarter. Staff.

#### PHYSIOLOGY

6. *Elementary Physiology*.—Human structure and function, designed to meet the needs of students in pharmacy. Lab. fee, \$2. Five credits; autumn. Smith.

7. *Elementary Physiology*.—Structure and functions of the human

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\*\*Will be offered if a sufficient number of students elect the course.

body, with special emphasis on metabolism, and the nervous and vascular systems. Lab. fee, \$2. Five credits; autumn, winter, spring. Smith.

20. *Service Course for Nurses*.—A special course for hospital students. Two credits; autumn, spring. Smith.

53, 54-55. *Physiology*.—Adapted to meet the requirements of students expecting to teach the subject in high school. Required of students majoring in physical education and nursing; recommended for students in dietetics and in sanitary science. Lab. fee, \$3.50. Five credits; autumn, winter, spring. Smith.

115. *Principles of General Physiology*.—Application of the laws of physics and chemistry to physiological processes. Prerequisite, one year each, zoology, chemistry and physics. Lab. fee, \$2.50. Five credits; winter. Smith.

151-152-153. *Advanced Physiology*.—Arranged for students in medicine and advanced students who wish to make a careful study of experimental methods. Prerequisites, Zool. 1-2, Chem. 21-22-23 and Phys. 1-2-3. Lab. fee, \$4. Five credits a quarter; autumn, winter, spring. Smith.

## SUMMER QUARTER

Alexander C. Roberts,<sup>1</sup> Ph.D. .... Dean

*Facilities.*—The summer quarter is an integral part of the University year and its courses coordinate with the other quarters. It offers especial opportunities for teachers and others whose regular work is suspended during the summer months.

By the four-quarter plan regular students are able to take their vacations during any quarter of the year, or by attending the four quarters each year they may complete the college course in three years. Regular work is offered in the Colleges of Liberal Arts, Science, Fine Arts, Business Administration, the Graduate School, Schools of Education, Journalism and Law, and in the Pre-medical course. The Puget Sound Biological Station at Friday Harbor maintains a session of nine weeks. In 1928 this will begin June 18 and end August 18. The laboratories and libraries are open and the various departments offer both undergraduate and graduate work equal in quality to that maintained during the rest of the year. In most departments three grades of work are offered: (a) courses for beginners, (b) courses for advanced undergraduates, and (c) courses for graduate students. In a large number of cases, heads of departments are in charge of the work. In addition to regular members of the faculty prominent teachers from outside the University give courses.

*For Whom Intended.*—Besides regular undergraduate work in the various colleges opportunities are afforded for the following classes of persons:

1. College and university graduates who wish to specialize in some particular field or to work for advanced degrees.
2. Superintendents and principals who wish to acquaint themselves with recent progress in education or to study special problems.
3. High school teachers who wish to advance in their special lines of work.
4. Supervisors and teachers of music, domestic science, drawing and other special fields of work, who find many courses suited to their needs.
5. School teachers who wish to work toward college degrees.
6. Directors of gymnasiums and teachers of physical education and playground work. The University campus offers unusual opportunities for playground demonstration, and special emphasis is placed on this important phase of education. The city of Seattle and the public schools afford splendid objective illustrations of playground and recreation centers.
7. Undergraduates who for some good reason find it desirable to shorten the period of their college course.
8. Recent high school graduates who expect to enter the University in the fall and wish to become familiar with the University before that time. High school pupils find this a very advantageous plan.
9. Persons desiring training in child welfare work, social workers, Y.M.C.A., Y.W.C.A. directors and teachers.
10. County superintendents who desire to study problems of rural school organization and social center and community center work.
11. Candidates for certificates who need special courses in education and psychology or other subjects.
12. Persons who are preparing to become specialists in college and normal school positions.
13. Persons who desire practical field work in botany, geology and zoology in a region possessing unique facilities.
14. Students who wish regular courses in law or special courses in law in preparation for teaching the commercial branches.

*Registration.*—Registration for the summer quarter of 1928 may be completed on or before Saturday, June 9. Students expecting to be in attendance during the last six weeks only may register on or before Wednesday, June 18. Students should go first to Administration Hall, where notices will be posted giving the order of procedure in registration. Stu-

<sup>1</sup>Resigned, September 1, 1927.

dent may, with the consent of the registrar, register by mail. Write for application form.

Students desiring to enroll in any college or school of the University will be assigned by the registrar to the deans of the respective divisions for assistance in election of studies; those not intending, at the time to become candidates for graduation will be assigned to the dean of the summer quarter.

*Admission.*—The courses of the summer quarter are open to all persons eligible for admission to the University as either regular, unclassified, certification, transient, or special students. As far as possible, all credentials for prospective students and applications for admission as special students should be in the hands of the registrar before the opening of the session.

*Credits.*—Students desiring university credit will be required to pass examinations during the closing week of each term.

*Amount of Work Registered For.*—No student shall be registered for less than 12 hours nor more than 16 hours except by consent of his dean. With the consent of his dean a junior or senior whose previous scholastic record has been exceptionally good may be registered for a maximum of 10 hours for either term, or 18 hours for the entire quarter.

Persons expecting to be candidates for any degree or the normal diploma at the close of the quarter, should make application through the registrar on registration at the beginning of the session.

*Fees.*—The regular tuition fee of twenty dollars (\$20) is required of all students, and admits to all the privileges of the summer quarter, except certain laboratory courses and to special music courses requiring individual instruction. (See the statements of these courses for the special fees.) No reduction of fees will be made because of late registration or early withdrawal. Open lectures are free to all students regularly registered in the summer quarter and to the public.

*Master's Degrees Through Summer Quarter.*—At each succeeding summer quarter a large number of graduate students are in attendance. Last summer about a third of the whole number of attendants were graduate students. Many were planning definitely to apply their work toward higher degrees. The University will accept 36 credits earned during at least 36 weeks of residence in summer quarters as a fulfillment of the year of required residence.

*Home Study Courses.*—The University has established home study courses in many departments. These will be of special advantage to students who have been in attendance at summer quarters and who wish to go forward to the bachelor's or the advanced degrees. The correspondence work can be advantageously planned as a continuation of the regular summer quarter. For detailed information concerning correspondence courses communicate with the Extension Service.

*Education.*—The summer quarter and the School of Education stand in very close relations to each other. Those who plan to obtain a degree, or a normal diploma, through the School of Education can accomplish much in summer quarters.

*Business Administration.*—An interesting curriculum of business courses is offered in the summer quarter for students who contemplate going into business. These courses are along the lines of business organizations, corporation finance, employment management, and kindred subjects. Teachers of commercial subjects will also find subjects of special importance in preparation for their work.

For bulletin of the summer quarter address the Publications Secretary, University of Washington. For other information address A. C. Roberts, Dean of the Summer Quarter.



## PUGET SOUND BIOLOGICAL STATION

### FRIDAY HARBOR, WASHINGTON

Theodore Christian Frye, Ph.D.....Director

The Puget Sound Biological Station is near Friday Harbor, Washington, the county seat of San Juan county. The population of the town is approximately 400. It is between Bellingham and Victoria, 30 miles from the former and 20 from the latter, in direct line. The Station site is about a mile from the town by water, and about two miles by land. The town contains a bank, drug store, butcher shop, bakery, hardware store, garage, and a number of grocery and other stores; so one can make ordinary purchases there.

San Juan County consists of an archipelago of something like 100 islands, separated by channels cut by glacial action. The northern islands of the county are composed of sandstone, comparatively easily eroded, and wearing into potholes. In the sandstone, are occasional beds of fossils, notably on the Sucia Islands. On Waldron Island and the Sucia Islands the sandstone was formerly cut for paving blocks for city streets.

Some of the islands are partly limestone, notably the north end of San Juan and the west side of Orcas. The largest lime works in Washington is at Roche Harbor, at the northwest corner of San Juan Island. However, comparatively little of the shore line of the archipelago is limestone.

Most of the islands are composed of metamorphic rock, which is very resistant to weathering and therefore changes very little. This is one of the reasons for the remarkable wealth of fauna and flora. Here and there are beaches of glacial material, or sand, or flats of mud. There are no large streams on the island, and therefore the water is exceptionally free from river detritus. Through the channels between the islands the tides rush at time with a velocity of seven to ten miles an hour, filling and again draining the Gulf of Georgia. The gulf is a body of water roughly 100x20 miles, and the spring tides are about twelve feet. The channels in the Friday Harbor region are the chief points of entrance and escape for this immense volume of water. Thus the rocky points are swept clean of erosion deposits, the water is constantly aerated and changed, and a good habitat for water forms insured. Some of the channels are 100 fathoms deep, thus affording opportunity for the study of forms and life to a considerable depth. Those who have been at the station have again and again attested to the abundance of marine life. A 12-foot tide exposes a wide beach, and gives excellent opportunity for the study of shore life.

*Grounds and Buildings.*—The site consists of 485 acres north of the town. Fresh water is piped in, and salt water is pumped from the sea. The laboratories are only a few yards from high tide. Four laboratories, about 24x56 feet, are completed. These are built of cement, hollow tile, plaster, and roofing tile. They are permanent and practically fireproof. A kitchen and dining room, permanent in structure, accommodating 200, was built in 1924. The dining room also serves as a library.

*Stockroom.*—Compound microscopes of simple make are supplied for class use from the University of Washington. Certain ordinary glassware, containers, and preservatives may be secured at the stockroom. It is the aim to have in the stockroom the things ordinarily called for. Unusual things cannot be supplied. Those wishing special apparatus should write to the director. Rowboats are on hand for general use. It is best for research workers to bring their own microscopes. Instructors, assistants and students alike are charged with whatever they draw out of the stockroom.

The Station owns its own trawling boat, the gift of Robert Moran, of Rosario, Washington.

## GENERAL INFORMATION

*Lectures.*—General lectures by the station staff or by visitors are given as the occasion arises.

*Registration.*—Experience has shown that it is wiser to register for one University course only, and all work is planned on that basis. Advanced students have found it profitable to begin some line of investigation in the same field in which they are carrying a course. All registration is at the Station.

*Credit.*—Students giving their whole time to the work may earn 13 credits in 9 weeks. All University credit is recorded in the Station books in per cent; 70% is the minimum for passing. Credits may be transferred directly from the Station books.

*Expenses.*—The first three items are for the whole term or any part thereof:

Tuition fee (Normal Courses \$15.00).....	\$20.00
General laboratory fee.....	5.00
Tent, two or more per tent, each.....	6.50
Board, \$5.50 per week in advance.....	49.50
Stockroom, breakages, etc., (estimate).....	3.00
Books (estimate) .....	2.00
Incidentals (estimate) .....	5.00
Total.....	<hr/> \$91.00

The tuition goes toward paying the running expenses; the laboratory fee is for the maintenance of the equipment.

For persons occupying the research rooms the total Station fee is \$50, covering tuition and laboratory fees.

The tents are mostly 10x12 feet, on board platforms with three-foot board wall, making the lowest part about five feet. Included in the rent are bed springs or cots, mattresses, camp chair, bucket, wash basin, and drinking cups. During the time before and after the session the rental is \$1 a week, and the general fee is \$1 per week. Kerosene stoves may be rented for \$2.50 for the season. Bedclothes and pillows are not furnished, but they may be bought at the village. Persons coming to the Station should bring a sufficient supply of bedding for cold nights. A deposit of \$6.50 reserves half of a tent for the 9 weeks. The tent sites are not equally desirable; and sometimes the demand exceeds the supply, but there has always been room in the village.

The combination living room, library and dining hall is 35x82 feet, with two alcoves for books, and seats 200 at meals. The floor is maple. Connected are kitchen and baths with cemented floors. The dining service is managed by the University of Washington Commons.

*Library.*—The library contains about 1200 volumes, of which about 210 are bound volumes of reprints. A limited number of books are shipped to the Station every summer from the University of Washington.

For bulletin of the Puget Sound Biological Station address the Publications Secretary, University of Washington. For other information address T. C. Frye, Director of the Puget Sound Biological Station, University of Washington, Seattle.

# THE UNIVERSITY EXTENSION SERVICE

## OFFICERS OF ADMINISTRATION AND INSTRUCTION

Matthew Lyle Spencer, Ph.D. (Chicago).....*President*  
David Thomson, B.A. (Toronto).....*Dean of Faculties*  
Frederick Morgan Padelford, Ph.D. (Yale).....*Assistant Dean of Faculties*  
Alexander C. oRberts,<sup>1</sup> Ph.D. (Washington).....*Director of the Extension Service*

## THE FACULTY, 1927-1928

The Extension faculty is composed of members of the general faculty who give extension courses and of the following instructors on the Extension staff:

Alletta Maria Gillette, A.B. (Smith), A.M. (Washington).....*Instructor in English*  
H. Dealy Dvorak, A.M. (Clark), Ph.D. (Brown).....*Instructor in Education*

## OFFICE STAFF

Mary C. Grady.....*Office Manager*  
Corinne B. Babcock.....*Secretary in charge of Seattle City Office*  
Edna Hindman, A.B.....*Secretary for Home Study*  
Florine Bingham.....*Stenographer*

## EXTENSION SERVICE

The Extension Service of the University of Washington provides university instruction by mail and in extension classes and lectures for those who cannot give full time to university study.

This service was organized in 1912. More than fifteen thousand students have been enrolled, a large number of whom have earned credits through extension study toward a university degree. Others have taken this work for the practical business values, greater professional and technical skills, and purely cultural satisfactions of wider reading and finer appreciations.

The Extension Service presents for 1927-1928 the following activities:

- |                           |                               |
|---------------------------|-------------------------------|
| 1. Evening Campus Classes | 4. Graduate Medical Lectures  |
| 2. Off Campus Classes     | 5. Graduate Nurses' Institute |
| 3. Home Study             | 6. Firland School for Nurses  |

About three hundred and fifty courses are available either through correspondence or in classes at moderate fees. This Service is an integral part of the University, and is maintained by the State for educational services to those engaged in gainful employment but who desire to pursue advanced study.

## UNIVERSITY CREDIT

Most of the courses at present offered by correspondence may be taken by properly qualified students for credits toward a university degree. Applicants for enrollment wishing to take courses for credit should send their credentials for entrance to the University, with their application, if these credentials are not already on file with the Registrar of the University. Credit work is of course subject to all rules and regulations of the University that are applicable. The work must be thorough, must show creditable grade and must be completed within a reasonable time, which is estimated to be not more than one year for five credit courses and proportionally less for shorter courses.

These qualifications are clearly stated, so that there may be no disappointment from expectations that cannot be fulfilled of an easy road to a degree. Home study is not such a road. It is slow and laborious; but it

<sup>1</sup>Resigned, September 1, 1927.

is worth all the time and money that it costs if considered from the standpoint of its value in scholarship, the pleasure that may be had from this mode of using one's time, and the widening of the horizon of one's mind.

#### HOME STUDY COURSES AND UNIVERSITY DEGREES

Students who are unable to spend in residence the full number of years required for a university degree may take as many as half of the required credits for graduation through Home Study, provided that not less than one year of work is done in residence at the University of Washington. For such Home Study courses, the student should plan well in advance and with the advice of University authorities. The studies required in the freshman and sophomore years are more largely available for Home Study. Therefore, to make a combination of Home Study and residence study, students should plan for the first rather than the latter part of the University course in Home Study.

Requirements for the University life diploma may be satisfied in part by Home Study credits.

Nine credits may be earned in approved Home Study courses toward the master's degree.

#### TUITION FEES

Moderate fees have always been charged by the University of Washington for extension instruction. It is proper that the individual directly benefited should pay his part toward the support of this work. The following requirements and conditions should be thoroughly understood:

Fees are due and payable at the time of enrollment and no fees are refunded except upon rejection of the student or failure to give the course. Enrollment constitutes an agreement on the part of the student to complete the course and he must take the responsibility for any failure on his part to do it.

Fees are based upon a uniform charge of \$4 per credit hour. Extension courses cost therefore: \$8 for a two-hour course; \$12 for a three-hour course; \$16 for a four-hour course; \$20 for a five-hour course.

#### HOME STUDY COURSES

The number and subjects of courses offered for Home Study vary from time to time. There are three hundred courses in nearly ninety subjects now organized. Present plans call for the development of the Home Study curricula to a total of more than three hundred fifty courses. Many courses have been offered for several years; others are entirely new. All have been adjusted to the special needs of Home Study students.

*Home Study Courses of Instruction.*—Astronomy, botany, chemistry, classical languages and literature, dramatic art, economics and business administration, education, engineering, English language and literature, geology, Germanic languages and literature, history, home economics, hygiene of maternity and infancy, journalism, mathematics, music, navigation, nursing, painting, sculpture and design, philosophy, political science, psychology, Romanic languages and literature, Scandinavian languages and literature, sociology, zoology.

The University reserves the right to change this list without notice. Faculty changes, the publication of new textbooks, changes in the material to be emphasized may compel the withdrawal or shifting of courses. It is planned to keep the list of courses revised and as nearly permanent as circumstances warrant.

## GRADUATE MEDICAL LECTURES

In cooperation with the Washington State Medical Society and the King County Medical Society, the eleventh Graduate Medical Lectures were held July 18 to 22 inclusive, 1927. The lecturers were Charles L. Mix, physician, professor of medicine and head of department, Loyola University Medical School. Senior attending physician Mercy Hospital, Chicago; George W. Crile, surgeon: Western Reserve University, member National Research Council Division of Physical Sciences and of many professional societies in the country and abroad. Charles Locke Scudder, surgeon: Harvard Medical School, chairman, Fracture Committee of the American College of Surgeons.

## FIRLAND COURSE IN PUBLIC HEALTH NURSING

The University of Washington Department of Nursing Education, through the Extension Service, offers a course in public health nursing to graduate nurses at Firland Sanatorium. A two-year curriculum covering 18 credits of advanced University work is offered.

## GRADUATE NURSES' INSTITUTE

In cooperation with the Washington State Graduate Nurses' Association, the Washington League of nursing Education and the State Public Health Nurses' Organization, the University of Washington Department of Nursing Education, through the Extension Service, conducted the Fourth Graduate Nurses' Institute August 1 to 6 inclusive, 1927. The faculty consisted of Carolyn Gray, lecturer in nursing education, Columbia University; Mrs. C. E. A. Winslow, member of board of directors, Visiting Nurse's Association, New Haven, Conn. C. E. A. Winslow, Dr. P.H., professor of public health, Yale School of Medicine. H. W. Hill, M.D. Dr.P.H. professor of public health, University of British Columbia. John Weinzirl, Dr.P.H., professor of bacteriology, University of Washington. Mabel Seagrave, M.D. staff of Seattle General Hospital.

## HYGIENE OF MATERNITY AND INFANCY

The University Extension Service cooperates with the Washington State Department of Health, Division of Child Hygiene, and the Children's Bureau of the United States Department of Labor, in conducting a course in the Hygiene of Maternity and Infancy. This is a home study course in which more than 125 mothers enrolled during the year 1927.

## OFFICE OF PUBLICATIONS

Foster L. McGovern, B.B.A. .... *Secretary*  
 Harriett Westmoreland ..... *Associate*

All official publications of the University of Washington are issued by the office of publications. The following publications have been issued.

The Puget Sound Biological Station Series, three volumes.

The University of Washington Publications, as follows:

*Anthropology*.—Vol. 1, No. 1. The Whaling Equipment of the Makah Indians, by T. T. Waterman. No. 2. The Distribution of Kinship Systems in North America, by Leslie Spier. No. 3. An Analysis of Plains Indian Parfleche Decoration, by Leslie Spier. No. 4. Klallam Folk Tales, by Erna Gunther. No. 5. Klallam Ethnography, by Erna Gunther. Vol. 2, No. 1. Adze, Canoe and House Types of the Northwest, by Ronald L. Olson. No. 2. Ghost Dance of 1870 among the Klamath of Oregon, by Leslie Spier. No. 3. The Middle Columbia Salish, by James A. Teit. No. 4. Some Tales of the Southern Puget Sound Salish, by Arthur C. Ballard.

*Fisheries*.—Vol. 1, No. 1. Preserved Pickled Herring, by Clarence Louis Anderson. No. 2. Field Characters Identifying Young Salmonoid Fishes in Fresh Waters of Washington, by Donald R. Crawford. No. 3. Synostosis in the Spinal Column of the Rainbow Trout, by Donald R. Crawford. No. 4. A Study of the Gases in Canned Foods, by Ray W. Clough, Oscar E. Shostrom, Ernest D. Clark. No. 5. Notes on the Presence of Indol in Sea Foods and other Food Products, by Ray Clough, Oscar E. Shostrom, Ernest D. Clark. No. 6. Iodine Content of the Pacific Coast Salmon, by Norman Donald Jarvis, Ray William Clough, Ernest Dunbar Clark. No. 7. Biochemical Study and Proximate Composition of Pacific Coast Crabs, by Carl R. Fellers and Clarence T. Parks. No. 8. Bacteriological Investigations on Raw Salmon Spoilage, by Carl R. Fellers. No. 9. Canned Salmon: A Five-Year Correlation Study of Certain Quality Factors, by Carl R. Fellers, Ernest Dunbar Clark, Ray W. Clough. No. 10. Fish Preservation by Hypochlorites, by Tung Pai Chew and Carl R. Fellers. No. 11. Non-Gaseous Spoilage in Canned Marine Products, by Carl R. Fellers. Vol. 2. No. 1. Ecto-Parasitic Infusuria Attacking Fish of the Northwest, by John E. Guberlet.

*Geology*.—Vol. 1, No. 1. Tertiary Faunal Horizons of Western Washington, by Charles E. Weaver. No. 2. Paleontology of the Oligocene of the Chehalis Valley, by Katherine E. H. Van Winkle. No. 3. Fauna from the Eocene of Washington, by Charles E. Weaver and Katherine Van Winkle Palmer. No. 4. Foraminifera from the Eocene of Cowlitz River, Lewis County, Washington, by Dallas Hanna and Marcus Hanna.

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GARCIA-PRADA, CARLOS

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BAIN, READ

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#### ZOOLOGY

GUBERLET, J. E.

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DEGREES  
DEGREES CONFERRED JUNE 14, 1926

BACHELOR'S DEGREES

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

Adkins, Helen Ernestine	Caldwell, John Harvey <sup>A</sup>
Albin, Virginia	Calhoun, Charles Eliot <sup>A</sup>
Allehoff, Julia	Campbell, Ruth <sup>D</sup>
(Sister Mary Alicia) <sup>D</sup>	Carey, Charles Robert
Allison, Katherine Maude	Carlson, Carl Salander
Anderson, Audrey Jean ( <i>cum laude</i> )	Carter, E. Stewart <sup>M</sup>
Anderson, Helen Gretchen	Case, Margaret Frances
Arnold, John Albert <sup>A</sup>	Chan-Yam, Victor
Augustine, Webster	Cleaver, Gertrude <sup>D</sup>
	Cohen, Joseph <sup>D</sup> ( <i>magna cum laude</i> )
Babbitt, Ardsley Gertrude	Collie, Ross F. <sup>M</sup>
Baird, Jean Woods <sup>A</sup> ( <i>cum laude</i> )	Collins, Parker Pratt
Baker, Helen Melissa	Connor, Aileen Maude <sup>M</sup>
Baker, Louise Irene	Cook, Lucile
Banks, Newell Jeffers	Corlett, Mildred Virginia
Banks, William Carr ( <i>magna cum laude</i> )	Coughlin, Paul John
Barber, Helen Marguerite	Cowan, Carol Merle ( <i>cum laude</i> )
Barrow, Gwendolyn	Coyne, Sophie ( <i>cum laude</i> )
Batie, Carmen Ardis	Craig, Dora Belle
Baumann, Carolyn Margaret <sup>A</sup>	Culver, Edith Frances <sup>A</sup>
Bayley, Nettie Ethel	
Becket, Ethelyn May	Davis, Ansil
Bedke, Madge <sup>A</sup>	Davis, Enid Elaine <sup>A</sup>
Belknap, Mae Stephens	DeBruler, Olive
Bellazzi, Roberta Anna	Dodd, Gregory E.
Benedum, Clara Yantis	Dodge, Laurance Isaac
Bentley, Nora Mulock <sup>M</sup>	Doheny, Geraldine Grace <sup>A</sup> ( <i>magna cum laude</i> )
Betz, F. Gerard	Donworth, Mary ( <i>cum laude</i> )
Bickford, Donald Daniel	Dykstra, R. G.
Binderup, Hortense ( <i>cum laude</i> )	
Boardman, Mary Quincy	Ehrlich, Barbara Elizabeth <sup>A</sup>
Boner, Bernice A. <sup>M</sup>	Elledge, Lela M. <sup>A</sup>
Bowman, William Clemson ( <i>magna cum laude</i> )	Elliott, Edith Alexandra <sup>A</sup> ( <i>magna cum laude</i> )
Boxer, Mary Edith	Engdahl, Selma <sup>A</sup>
Boyer, Edith Aileen	Engle, Nathaniel Howard <sup>A</sup> ( <i>cum laude</i> )
Brattain, Betty	Estepa, Sotero <sup>M</sup>
Bratten, Dorothy Isabel	
Brix, Egbert Anton	Farber, Lena ( <i>magna cum laude</i> )
Broom, Lylas	Ferrier, Gladys Clotilde ( <i>cum laude</i> )
Brown, Elizabeth	Fisher, William Dudley
Brown, Elizabeth Louise	Fitterer, Dorothy Marian
Brown, Mary Catherine	Flock, Mabel Violet
Brown, Ralph Warren D.	Forbes, Helen Ella
Buchanan, Helen Lee	Fraser, Havelock Frank <sup>D</sup>
Buckley, Nancy	Friese, Bernice Valarie
Budde, Charles Arthur <sup>D</sup>	
Burd, Dorothy <sup>D</sup>	
Byers, Dorothy Ovida	

The persons whose names are followed by the superior letters A D M received their degrees in the quarters of 1925-1926 ending in August, December and March respectively; all others in June, 1926.

Gerbel, Maribeth  
 Gierin, Russell Burrowes<sup>M</sup>  
 Giesy, Huldamay  
 Gilhams, Helen Maud  
 Gorrill, Athol Blair Mackey<sup>D</sup>  
 Graefe, Margaret Louise  
 Graff, P. N.<sup>M</sup>  
 Grant, Helen Louise  
 Graves, Elizabeth<sup>A</sup>  
 Gray, Emanuel Alexander  
 Green, Floyd Cecil<sup>A</sup>  
 Gross, Elizabeth Gloor  
   (Sister Mary Alexander)<sup>D</sup>  
 Gulliksen, Harold Oliver (*magna cum laude*)

Hagerty, Jean Mason  
 Halberstadt, Elizabeth Henrietta<sup>A</sup>  
 Hale, Oron James<sup>M</sup> (*cum laude*)  
 Hansen, Rita Prideaux  
 Harrison, Mae<sup>A</sup>  
 Hart, Rosamond Price  
 Harvey, Lora Mary (*magna cum laude*)  
 Haskell, Oliver Howard  
 Hazzard, Margaret Wieting  
 Heaney, Genevieve  
 Helliesen, Margaret Ann  
 Hindmarsh, Albert Edward  
 Hoffland, Henry Harrison  
 Hoffland, Laura Hildreth  
 Holtzinger, Ruth Estelle  
 Hornbeck, Helen Marie  
 Horowitz, Charles<sup>A</sup> (*magna cum laude*)  
 Hover, Ernest John  
 Howard, Helen Elena  
 Hoyt, Donald Reid  
 Huang, Pei Kun  
 Hughes, Babette  
 Hurlbut, Wendell Phillips, Jr.

Jackson, Lillian (*magna cum laude*)  
 Jensen, Mary Charlotte  
 Jensen, Olive Gladys<sup>A</sup>  
 Johnson, Helen H.<sup>A</sup>  
 Johnson, Lorenz Carl  
 Johnson, Sylvia Munroe<sup>A</sup>

Kelly, Kathryn  
 Kelley, Louise Valverde  
 Kelso, Kenneth Kay (*cum laude*)  
 Kenyon, Hazel McBee (*cum laude*)  
 Kerr, Elizabeth Chase<sup>A</sup> (*cum laude*)  
 Ketchum, Leland Hosking  
 KinKade, Russell Wade  
 Kretsinger, Helen Maury

LaPlant, Mary<sup>A</sup>  
 Larkin, Virginia Manny<sup>D</sup>  
 Lee, Virginia Monta<sup>M</sup>

Lester, Verna-May  
 Lewis, Wilma Eleanor  
 Linholdt, Alfred E. A.<sup>M</sup>  
 Livengood, William Joe<sup>A</sup>  
 Lonergan, Thyra Marie  
 Lund, John Grant  
 Lundell, Signe Aurora Marie<sup>A</sup>  
 Luthy, Marion Stuart<sup>A</sup>  
 Lunnum, Anna Joan

MacKenzie, Helen Anabel  
 McCann, Helen Rosalia  
 McCarty, Ruth Elizabeth  
 McClurg, Laura Sherren  
 McCroskey, Jean  
 Macfarlane, Lorna E.<sup>A</sup>  
 McKeague, Florence Wilkerson<sup>M</sup>  
 McKnight, J. Alice  
 McMillan, Isabel Gray<sup>A</sup>  
 McMonagle, Alberta  
 Magee, John Homer  
 Mahoney, Mary Katharine  
 Manca, Milo John<sup>A</sup>  
 Mann, Harold Nelson<sup>D</sup>  
 Marchand, Ernest LeRoy<sup>A</sup> (*magna cum laude*)  
 Martin, Ernest Sylvester  
 Medler, Louisa Adelaide  
 Melby, Mildred Elin  
 Meyer, Wilhelm Hugo<sup>A</sup>  
 Michie, Frances Ethel<sup>A</sup>  
 Middleton, Maurine  
 Mills, Gertrude Rietze (*cum laude*)  
 Mills, Merritt Gordon  
 Mohammad, Wali<sup>M</sup>  
 Mohr, Jennie<sup>A</sup> (*cum laude*)  
 Morrison, Anna Kathryn<sup>A</sup>

Nachant, Virginia Louise  
 Neerland, Ruth Christine  
 Nelson, Adelaide Keefer  
 Neville, Jessie Elizabeth  
 Newman, Marguerite Lillian  
 Norie, James Lester, Jr.  
 Norton, Theodore Eli<sup>A</sup>

Odle, M. Frank<sup>A</sup>  
 O'Leary, Mary Eileen  
 Olsen Leah I.<sup>A</sup>  
 Orr, John Erskine, Jr.  
 Orton, Helen Cook

Parsons, William Budd<sup>M</sup>  
 Patrick, Harry Simpson  
 Paulson, Stina Ellida  
 Phillips, Olive Elizabeth  
 Pillard, Ray Amile<sup>A</sup>  
 Plank, Faye Marie  
 Pollom, Arta-Rae  
 Porter, Dorothy Isabel  
 Prescott, Nellie Taylor  
 Pretlow, Sarah Isabella  
 Proelss, Maurine

Rafish, Yetta  
 Reed, Genevieve E. M. (*cum laude*)  
 Reimelt, Herbert R.<sup>D</sup>  
 Revelle, Helen J.<sup>A</sup>  
 Richards, William Gordon  
 Riddiford, Ruth Kathryn  
 Ritchie, Elizabeth Latimer<sup>D</sup>  
 Robb, Marian Stuart (*cum laude*)  
 Rockwitz, Alice Emma  
 Rodman, Margaret Catharine Britton  
 Rohowits, Edythe Katherine<sup>A</sup>  
 Rohowits, Gerald Murray  
 Rosendahl, Ily Saima  
 Ruddell, Eva Jean  
 Ryan, Florence Ila

Sato, Teizo<sup>A</sup>  
 Schacht, Ronald William  
 Schofield, Mary Gwendolyn<sup>A</sup>  
 Shattuck, Margaret Elizabeth (*cum laude*)  
 Shaw, Harry Alexander  
 Sheridan, Helen Christine<sup>A</sup>  
 Shields, Josephine Euphemia<sup>A</sup>  
 Shultz, Celia Barbara<sup>A</sup>  
 Simmons, Anna L.  
 Skeith, Anastasia Bennett  
 Slipper, Thomas Armine  
 Smith, Aileen Mary<sup>A</sup>  
 Smith, Bernice Caroline (*cum laude*)  
 Smith, Jessie Elizabeth<sup>A</sup>  
 Snyder, Harold C.<sup>A</sup>  
 Spelman, Francis Coburn  
 Sterett, Nellie B.<sup>A</sup> (*cum laude*)  
 Stewart, Richard Hebble<sup>D</sup>  
 Stone, Helen Blanche  
 Storey, Eunice (*magna cum laude*)  
 Struthers, Selma Violet  
 Sturgis, Alice E.  
 Sullivan, Nellie  
   (Sister Mary Louise)<sup>A</sup>  
 Sutton, Elizabeth  
 Sweet, Marie<sup>M</sup>  
 Tapping, Margaret Elizabeth

Tapscott, Clarence Benson<sup>A</sup>  
 Taylor, Judith Morgan<sup>A</sup>  
 Tesreau, Elmer Lee  
 Thome, Helen Elizabeth  
 Titus, Irene B.  
 Toles, Martha Isabelle<sup>A</sup>  
 Townsend, Lucile Evelyn  
 Turner, Alice Gertrude  
 Uhlmann, Martha Miller<sup>A</sup>  
 VanTilborg, Mary Florence  
 Van de Wetering, George<sup>A</sup>  
 Verhamme, Evelyn Maria  
 Waddell, Margaret<sup>D</sup>  
 Waechter, Florence  
 Wait, Thelma Catherine<sup>M</sup>  
 Walker, William Burwell  
 Wallace, John Donald  
 Wallace, Margaret  
 Warner, Kenneth Oren  
 Weiser, John Hutton<sup>M</sup>  
 Wentworth, Mary Margaret (*cum laude*)  
 Westberg, Alfred John  
 Westervelt, Howard Wilson  
 Westfall, Virginia<sup>A</sup>  
 Wheeler, Robert Frederick<sup>D</sup>  
 Whitcomb, Catherine (*cum laude*)  
 White, Dorothy Elizabeth (*magna cum laude*)  
 White, Dorothy R.  
 Widell, Hilda L.  
 Williams, Eleanor<sup>M</sup>  
 Williams, Ruth Helen (*magna cum laude*)  
 Williamson, Robert Leslie  
 Wilson, Boland  
 Wilson, Clotilde Marconnier (*magna cum laude*)  
 Winograd, Simon  
 Wren, Harper Chapman  
 Wright, Helen Edwards<sup>A</sup>  
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 Zeiher, Honora Sophie

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 Cundiff, Velda Pauline  
 Dietz, George Henry<sup>A</sup>

Drake, Cornelia Polk  
 Dutch, Dorothy Estella<sup>D</sup>  
 Fisk, Russell Trevor Young  
 Flohr, Edward Firmin  
 Friend, LeRoy Francis  
 Godefroy, William  
 Hodges, Frederick Clement<sup>D</sup>  
 Hoyt, Dorothy<sup>A</sup>  
 Huang, Yuan-Chao

Levitin Morris  
Loe, Ralph Harvey<sup>A</sup>

McCormick, William Earl  
Marcus, Samuel Waldo<sup>A</sup>  
Marlatt, John Joseph<sup>A</sup>  
Maxcy, John Danforth<sup>M</sup>  
Mennell, Estella Peabody<sup>A</sup>  
Miller, Lecil Chase  
Mitchell, Dorothy<sup>A</sup>  
Monda, George J.<sup>D</sup>

Neary, Raymond<sup>D</sup>

Raymond, Elizabeth MacLeod  
Rehbock, Donald J.  
Reid, Frances Harriet  
Roehr, Dorothy Eliese<sup>A</sup>

Scott, Marjorie  
Sells, John Alexander  
Shah, Aurang  
Slavin, Jack<sup>M</sup>

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Ramsay, John Finlay

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Evans, Lacey Heintzman<sup>A</sup>

Quinlivan, Quentin L.<sup>M</sup>  
Voerge, Julius Edward

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Waters, Aaron (*cum laude*)

Wilson, Leslie Edwin

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Anderson, Lillian Ida

Bonner, Ida

Carter, Faith E.  
Cummins, Grace Lettie

Daniel, Virginia Lee  
Dark, Dorothy<sup>A</sup>  
Dugan, Helen Justina

Engdahl, Evelyn Karine  
Enger, Bernice<sup>D</sup> (*cum laude*)

Foreman, Iona S.

Gerritt, Harriet Ina<sup>A</sup> (*cum laude*)  
Gillett, Erma Mills<sup>M</sup>

Hutchinson, Zoë Buckley<sup>A</sup>

Irving, Helen Carlisle

Kettenring, Grace Katherine

Lee, Agnes, Jean<sup>A</sup>  
Lee, Elsie  
Lincoln, Zaida  
Low, Josephine<sup>A</sup>

Messer, Elisabeth Beatrice  
Miller, Clarice Dorothy  
Miner, Eva Lee<sup>A</sup>

Nims, Helen Brewster<sup>A</sup>

Oberholser, Ethel Louise

Peers, Rosa Frances  
Pendleton, Lois Jesslyn

Robinson, Helen Rhoda

Schrock Mary  
Shaffner, Mary Murchison<sup>A</sup>  
Springer, Hestell  
Steelman, Elizabeth  
Swanson, Mabel Naeme (*magna cum laude*)

Young, Elsbeth

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Adams, Henrietta Marguerite (*cum laude*)  
Bennett, Lillian Veavie

Marsh, Lillian Angelina  
Thompson, Aurora Mary  
Thompson, Helen

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Bowen, Mary Elizabeth	Fry, Elizabeth Henry
Burpee, Frances Helen	McLennan, Susan Isabel
Byrne, Kathryn Ann <sup>A</sup>	Noble, Mildred Alice ( <i>cum laude</i> )
Cruzen, Eugenie Celeste <sup>A</sup>	Reed, Helen VanAlen
Del Duca, Elizabeth	Springer, Alice Eleanor <sup>A</sup>

## BACHELOR OF SCIENCE IN ZOOLOGY

Hinman, Grace Elvira <sup>A</sup>	Tashima, Robert Hideo <sup>A</sup>
Myers, Carlyle Graves <sup>A</sup>	Underhill, Julia Adams <sup>D</sup>
Pettit, Helen <sup>M</sup>	Weinstein, Sydney
Sarro, Nicholas ( <i>magna cum laude</i> )	

## SCHOOL OF EDUCATION

## BACHELOR OF ARTS IN EDUCATION

Adams, Frances Aletha <sup>A</sup>	Foote, Luaua <sup>D</sup> ( <i>magna cum laude</i> )
Anders, Bertha Irene <sup>D</sup>	Ford, Gertrude Catherine
Ankele, Felicitas Charlotte <sup>A</sup> ( <i>cum laude</i> )	Foss, Mary Loretta <sup>A</sup>
Arnell, Rebecca <sup>M</sup> ( <i>magna cum laude</i> )	Fowler, Franklin W. <sup>A</sup>
Bailor, Wallace Floyd	Gemmell, Fred M. <sup>A</sup>
Baker, Martin Henry <sup>A</sup>	Gerrish, Olive May <sup>A</sup> ( <i>cum laude</i> )
Baker, Mary Harriet <sup>A</sup>	Griffin, Marie M.
Barron, Dorothy Fraser <sup>D</sup>	Griffith, Rena <sup>A</sup>
Batdorf, Beryl	
Beatty, Vera Josephine <sup>A</sup>	Haack, Wilhelmina Margaret <sup>A</sup>
Becket, Hugh Melville	Hambert, Nona Choate <sup>A</sup> ( <i>cum laude</i> )
Blanchard Fred Clayton	Hartman, G. Howard <sup>A</sup>
Bone, Marguerite	Haskell, Margaret E.
Booker, Paul E. <sup>D</sup>	Heinrick, John Patrick
Borrow, Martha Mabel <sup>A</sup>	Hunt, Catherine Phillis
Brannon, Myrtle Jane	
Breuer, Leo W	Ingison, Lottie May <sup>A</sup>
Brier, Howard Maxwell <sup>D</sup>	Isbell, Raymond Floyd <sup>M</sup>
Briggs, Dorothy E.	
Brooks, Irene Mae	Johnson, Dorothea Elisabeth <sup>M</sup>
Campbell, Helen Ruth <sup>M</sup>	Johnson, Myrtle Dorothy
Carlson, Florence Amelia <sup>D</sup>	Johnson, Raymond Frank
Carlson, Emmy Lou <sup>A</sup>	Jones, Luella Eliza
Coleman, Vera Faye	
Cooper, Edwin Vermont <sup>A</sup>	Kilkenny, Mable Reynolds <sup>A</sup>
Dailey, Edith Louise	Knowles, Dale Isabel
Dalgity, Jean <sup>D</sup>	Korter, Irene Lizzett
DeGarmo, Leona Marie ( <i>cum laude</i> )	Krumm, Hulda Emily
de Heus, Margaret Rachel <sup>A</sup>	
Downes, Marjory	Lowler, Loretta <sup>A</sup>
Driscoll, Eugene Alton <sup>M</sup>	Lee, Vernet Charles <sup>A</sup>
Dunmore, Blanche	Leeper, Marion LeMoyne <sup>M</sup>
Ehlen, Maxine Elliott	Leibst, Signe Mauren <sup>A</sup>
Eidal, Marie Geneva	Lienkaemper, Miriam
Evans, Earl Huston <sup>A</sup>	Lindstedt, Oscar Herman
Farrar, Myrtle I. <sup>A</sup>	Loughead, Eleanore Marguirite
Finch, Myron H.	
Foltz, Elva	McCoubrey, Arthur Martin
	McGibbon, Eileen



McIntosh, Edith Alice <sup>D</sup>	Rutherford, George
McKenzie, Edward Granville	Satre, Alice <sup>A</sup>
McNerthy, Catherine	Schubert, Helen
(Sister Mary Margaret) <sup>A</sup>	Selby, Miriam R.
McRae, Edwin <sup>A</sup>	Sennes, Gertrude J.
Macomber, Freeman Glenn	Seyler, Ernestine Margaret <sup>D</sup>
Macomber, Leone Faris McBride	Silva, Elizabeth McDonnell
Mattox, Clifford J. <sup>A</sup>	Skibness, Marie Bertine
Mayhew, Isabella	Smith, Byron B. <sup>A</sup>
Miller, Ira Thomas	Stalker, Guy Hoyt
Moore, Otto Eugene	
Morrison, Jessie Alene	Trotter, Georgia Ellen
Muns, Zola Fern	Turnbull, Fred Archie <sup>A</sup>
Murphy, Margaret Mary	Van Houten, Lois N.
	Van Orsdall, Otie Pearl ( <i>cum laude</i> )
Nagley, Lois Muriel <sup>A</sup>	Walsh, Alice Beatrice
Newmack, G. Nichol	Watkins, Ina-Ree <sup>A</sup> ( <i>cum laude</i> )
Nixon, Ruth Marie	Waxmann, Marie Josephine <sup>A</sup>
	Wheelihan, Harriot
O'Brien, Mary <sup>A</sup>	White, Jesse James
	White, Jessie Morrison
Pascual, Eduardo Felipe <sup>D</sup>	Winslow, Camilla Bogert
Pittendrigh, Dora	Woodbury, Lydia Alice
Potter, Donald Deuel <sup>M</sup>	Wright, Ralph Gerald <sup>D</sup>
Puette, Raymond Vann <sup>A</sup>	Wynstra, Wieber
Pursel, Adrian Dickson <sup>M</sup>	
	Young, Elizabeth Charlene <sup>A</sup>
Rhodes, Josephine Vivian <sup>M</sup>	Young, Mary Glendowin
Rousseau, Imogene E. ( <i>cum laude</i> )	

## BACHELOR OF SCIENCE IN EDUCATION

Cavanaugh, Edith Frances	Payne, Mattie Caroline
Eades, Beulah Agnes	Rosenquist, Oscar William <sup>D</sup>
Evatt, Phillip Orrin	Seymour, Keith M.
Galvez, Pedro Rilloraza <sup>A</sup>	Sheppard, Jessie
Hansen, Alvida L. <sup>A</sup>	Soller, Telesforo G. <sup>A</sup>
Murphy, Agnes Kathryn	Whitcomb, Alice Elizabeth <sup>A</sup>
Patch, Della June <sup>A</sup>	

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Hill, Marie LaBarraque <sup>M</sup>	O'Leary, Kathleen LeNor
Kantner, Jean Whiteaker	Oyen, Esther Dagmar
McCann, Mable Ruth <sup>M</sup>	Oyen, Penelope
Nadeau, Eleanore	

## BACHELOR OF MUSIC

Albertson, Lois Lee	Burns, Nina May ( <i>cum laude</i> )
Barthelemy, Lillian McNair	Byers, Eleanor Douglas
Biggers, Ruth Caroline	Carstens, Lillian M. <sup>A</sup>
Bower, Ruth Albertine	Charlton, Harriet J.
Burmeister, Claudys Susanne <sup>A</sup>	Criddle, Carol Elizabeth
Burnam, David Lincoln	Delaney, Verner Dail <sup>A</sup>

Evans, Marian ( <i>magna cum laude</i> )	Kalk, Mary ( <i>cum laude</i> )
Fisher, Dorothy	Kern, Charlotte Helen
Freeburg, Roy Everett	Kuechenberg, Marie Edith
Glen, Juliet Katherine	McLeod, Cleo Ruth
Hall, Helen Marie <sup>A</sup>	Martin, Trula Evelyn
Hanson, Louise Jeanette <sup>A</sup>	Phillips, Constance <sup>A</sup>
Havlik, Mary Genevieve	Pidduck, Marjorie Katherine <sup>A</sup> ( <i>cum laude</i> )
Hood, Helen R. <sup>A</sup>	Reisig, Rhea
Heyburn, Frances Louise	Scofield, Susan Ada
Hutchinson, Mary Joy	Terry, Miriam ( <i>cum laude</i> )
Johnson, Marvel Rose	Troeh, Sylvia

## BACHELOR OF ARCHITECTURE

Graham, Helen	Pearce, Richard James
---------------	-----------------------

## BACHELOR OF FINE ARTS

Arthur, Jean Winifred	McIlvain, Dorothy Salome
Bayley, Madeline Virginia <sup>B</sup>	Main, Clara Agnes
Bayley, Mildred	Mielke, Helen Evelyn
Bergstrom, Conrad E.	Norway, Charis Julia
Burgess, Carolyn	Okajima, Thelma Shiza <sup>M</sup>
Daum, Edna Winifred	Osterman, Henrietta
Edens, Annette <sup>A</sup> ( <i>cum laude</i> )	Palmer, Margaret Vincent
Ferry, Frances	Pattullo, Ruth Jeanette
Fowler, Helen T. <sup>A</sup>	Pollom, Lois Fay
Henry, Ruth Hope <sup>A</sup>	Richmond, Mabel
Hong, Anna <sup>A</sup>	Simpson, Ellene Vertrees
Kerwin, Mary Catherine	Sprague, Joan H.
Leaf, Helen Veva	Storm, Alfrida A. <sup>M</sup>
Littlefield, Lena Experience	Stryker, Gretchen
Myers, Jean Jackson <sup>M</sup>	Swezea, Vernita <sup>M</sup>
	Williams, Frances <sup>A</sup>
	Wright, Doris Louise

## BACHELOR OF ARTS IN DRAMATIC ART

Greiner, Mary Susan	Simmonds, Dorothy Pearl <sup>M</sup>
Lycette, Edythe Elizabeth	

## COLLEGE OF ENGINEERING

## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Bond, Floyd King	Ellis, Samuel Benjamin
Brown, Martin	Eng, Jack
Carr, Dugald MacDougall <sup>B</sup>	Faure, Eugene R.
Cartwright, Vance	Graham, Donald Penrose <sup>M</sup> ( <i>cum laude</i> )
Cauvel, Orvel S.	Greene, John Willard <sup>B</sup>
Drumheller, Joseph <sup>B</sup>	

Hill, John Regli	Park, Walter Loyal
Kniseley, John M.	Ross, Donald Lincoln ( <i>cum laude</i> )
Larson, Edwin Edward <sup>A</sup>	Setzer, George Frank <sup>M</sup>
Mills, Victor	Shera, Brian Loughheed

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Augerson, Harold Wilbur <sup>D</sup>	Jensen, Alfred <sup>D</sup>
Bautista y Marasigan, Enrique <sup>M</sup>	Large, J. G.
Byrne, William Gilman <sup>M</sup>	Licorenko, Abraham Arthur <sup>A</sup>
Evans, Donaldson Hampton <sup>D</sup>	Marshall, Harry Leslie
Farr, Forest Willard <sup>M</sup>	Peaslee, George Monroe <sup>M</sup>
Finke, Ralph William <sup>M</sup>	Quimosing, Dionisio Quengua <sup>M</sup>
Graves, Hershel Douglas <sup>D</sup>	Shinkai, Tsuguo
Hallstrom, Irving Thorell <sup>M</sup>	Smith, Frederick Charnley <sup>M</sup>
Hofsto, Glen Ellis	Welty, John Lawrence <sup>A</sup>

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Abakumoff, Konkordy Viktorovich	Lamson, Joseph Voris
Briggs, Clifford Milton	Lane, Glen L. <sup>A</sup> ( <i>cum laude</i> )
Brown, Harold Roswell	McCane, Ames C.
Compton, Harry Otis	Melang, Bjorn Louis ( <i>cum laude</i> )
Cutler, Denzil Aden	Merrill, Albert Elliott
Douglas, William A	Nagamatsu, George Rio
Durgin, Carey L.	Norberg, Clarence Frederick
Evans, Miller <sup>M</sup>	Paradis, Ernest Joseph <sup>M</sup>
Gardner, Harold Arnold	Pashley, Harry Brust
Garman, George Walter	Pearson, E. Holger <sup>A</sup>
Gordon, Walter S. Jr.	Peterson, Howard J.
Grant, Vernon Henry	Roberson, Ray R.
Hartman, Jonathon E. <sup>D</sup>	Seecamp, John F. <sup>D</sup>
Heinz, Winfield Bernard	Stone, Howard Carver
Johnson, Frederick A.	Strandberg, Herbert Victor
Karr, Herbert S. <sup>D</sup>	Thompson, Browder J. <sup>D</sup>
Klaus, Charles Elwell <sup>M</sup>	Visser, William Rienze ( <i>magna cum laude</i> )
	Williams, Hugh Paul
	Wright, Stanley John

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Borst, Joseph O.	Carlson, Lawrence Edward
Butterworth, Harry Clifford	Comings, Everett L.
	Daniels, William C.

Hoyt, Joseph Burton	Nuguid, Alfonso P. <sup>D</sup>
Leong, King Frankton Fuan	Postlewaite, Mark Antony <sup>A</sup>
Lincoln, Roland L.	Rhodes, Fred Harold, Jr.
McCausland, Erwin Russell	Ross, Harry Leroy <sup>M</sup>
McKenzie, W. A. <sup>D</sup>	Silliman, Hugh Gorton
Moore, Sylvan Charles <sup>M</sup> ( <i>cum laude</i> )	Wallace, William A.
Notkin, James Benjamin	

## BACHELOR OF SCIENCE

Hutchison, Howard	Mage, Jack Darremore
Lee, Robert James <sup>M</sup>	Owens, George Iverson
Lillis, Dan C. <sup>A</sup>	Phelps, Howard Rodney <sup>A</sup>
Lochte, William Andrew	Walker, Richard David
Mackenzie, Harold Austin <sup>A</sup>	Ystrom, John Bernhard <sup>A</sup>

## COLLEGE OF MINES

## BACHELOR OF SCIENCE IN MINING ENGINEERING

Barquist, Walter C. <sup>M</sup>	Koivula, Elmer Charles
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## BACHELOR OF SCIENCE IN GEOLOGY AND MINING

Coplen, Donald Grant	Johnston, James Gamble
	Schofield, Alfred G.

## BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

Macleod, Donald<sup>D</sup>

## BACHELOR OF SCIENCE IN CERAMIC ENGINEERING

Goodrich, Hobert Reed <sup>M</sup>	Nicholson, Thomas Elbert
	Smith, Thad. O.

## COLLEGE OF FORESTRY

## BACHELOR OF SCIENCE IN FORESTRY

Baker, Edward <sup>M</sup>	LaRocque, Rene
DuBois, Richard Brown	McCannel, Kenneth Campbell
Dunn, Frank Marion <sup>M</sup>	McCrary, Ward Randolph
Forward, Charles Henry	Newton, Charles A. Jr.
Gordon, Clair Ivon	Price, William Howard
Hanson, Harold Wickersham	Ritter, John Edward <sup>D</sup>
Jellison, Arthur James	Scheffer, Theodore Comstock
Krauter, Orlo William	*Tappe, Kenneth Hartley <sup>D</sup>
	Wascher, Spriggs

\*Died, May 8, 1926

## COLLEGE OF FISHERIES

## BACHELOR OF SCIENCE IN FISHERIES

Kavanagh, John Alfred (*cum laude*) Phillips, Julius B.

## COLLEGE OF PHARMACY

## PHARMACEUTICAL CHEMIST

Aubert, William Prentice <sup>A</sup>	Hirose, Ruby Sato
Baker, Mildred Florence <sup>A</sup>	James, Harriet Clara
Bradshaw, John Franklin ( <i>cum laude</i> )	MacLeod, Raymond Nicholson
Brimston, Marion Georgia	McNamara, Robert T. <sup>D</sup>
Campbell, Donald H.	Martens, Aleda Laura
Duckering, Richard E.	Olson, Percy Oliver
Edler, Olof Edwin	Palpallatoc, Paul P.
Fischer, Louis	Payne, Harry Anson
Fraser, Lincoln William	Poole, Abigail B.
Goodglick, Samson	
Hannah, Fred C.	Thomson, Vella Elizabeth
Harper, Horace Roland	
Hawker, Charles Cecil	Weller, Lawrence L.

## BACHELOR OF SCIENCE IN PHARMACY

Ariizumi, Kiyo ( <i>magna cum laude</i> )	Gustafson, Iva Marie <sup>D</sup>
Brimston, Marion Georgia ( <i>magna cum laude</i> )	Hammond, Marguerite Alice
Fischer, Louis	Hardinger, Marie Annette
Goodglick, Samson	James, Harriet Clara
	Richards, Leon W.

## COLLEGE OF BUSINESS ADMINISTRATION

## BACHELOR OF BUSINESS ADMINISTRATION

Adams, Evert	Carlson, Theodore David
Ademino, John	Carlston, Kenneth S. ( <i>magna cum laude</i> )
Anderson, Edward Joseph <sup>M</sup>	Carroll, M. Jack <sup>D</sup>
Armstrong, Wilmot Morrison	Carstens, Clarence Thomas
Beck, William Helgren	Carter, Burdette Merlin <sup>M</sup>
Beede, Alan Fraser	Castle, Sara Lauretta
Bennett, Constance Anne <sup>A</sup>	Cloughley, Walter Morris <sup>A</sup>
Bennett, Sumner Weymouth	Commerée, Clifford Hugh
Blum, John Ralph ( <i>magna cum laude</i> )	Compton, Merrill Eugene
Bonell, James H.	Condon, Harold Thomas
Bower, Donald Duane	Cook, Chesley Marion ( <i>cum laude</i> )
Brainard, Silas Arthur <sup>A</sup>	Crait, Lawrence Albert <sup>A</sup>
Brazell, Thomas Lantry	Crosby, Forrest Tory
Brown, Gordon Arthur	
Buerk, Arthur W.	Davidson, Kenneth Mowbray
	Davis, Wilbur Lee <sup>D</sup>

Dayton, Ralph Edson  
 Doherty, Joseph C.  
 Dunn, Yenchuen Yih  
 Dutton, Harry John<sup>M</sup>  
 Duwe, Richard Allen

Eckstein, Howard<sup>A</sup>  
 Egtvet, Percy C.<sup>M</sup>  
 Eng, Keys  
 Erickson, Richard Carl<sup>D</sup>

Felch, Baxter C.<sup>M</sup>  
 Fitzgerald, Vernor John  
 Forster, Fred Edward<sup>A</sup>  
 Fraser, Whittier H.  
 Furuya, William Naoyuki<sup>D</sup>

Gabrielson, Carl William  
 Gillespie, Loris Austin  
 Goehring, Viola Elsie<sup>A</sup>  
 Goon, Henry Farren<sup>M</sup>  
 Grant, Ruth Aeneas<sup>A</sup>  
 Grunbaum, Henry Maurice

Haase, Albert Paul  
 Haggard, Henry Edward  
 Hale, James Grattan (*magna cum laude*)

Hamada, Isaburo Fred<sup>A</sup>  
 Hamm, George R.<sup>D</sup>  
 Hampson, Floyd Franklin<sup>A</sup>  
 Hanson, Mildred Moore  
 Hellens, Lawrence Walter<sup>A</sup>  
 Higgins, Wilma Romaine<sup>A</sup>  
 Hisakichi, Hayashi<sup>A</sup>  
 Holman, Franklin James<sup>A</sup>  
 Horiike, Koji  
 Hoyt, Gordon McDowell<sup>D</sup>

Jackson, Jesse Monroe, Jr.  
 Jeffries, Wendell<sup>M</sup>  
 Jensen, Howard Richard  
 Jensen, William Stephen  
 Johnstone, Robert V.<sup>A</sup>  
 Jones, Winston Jeffreys  
 Jorgenson, George Hilmer<sup>A</sup>

Kellogg, Harold Eugene<sup>A</sup>  
 Kirk, Douglas G.<sup>D</sup>  
 Knight, Charles William<sup>M</sup>  
 Knighton, Blanche  
 LaFromboise, Clarence B.<sup>M</sup>

Lanigan, Edward John<sup>D</sup>  
 Lemley, Lyle Huestus

Lewis, Hubert Putnam  
 Liu, Shun-Tsung<sup>M</sup>  
 Lyons, James Frederick

Meyer, Edward A.<sup>A</sup>  
 Merrill, John Edmund  
 McGoldick, Jack Harold  
 Maginnis, William John<sup>M</sup>  
 Manning, Edward Burton<sup>A</sup>  
 Maughan, Wilbur Maxey<sup>A</sup>  
 Maylor, Marc L.  
 Meckstroth, Carl Wallace  
 Meisnest, Kenneth Ruka<sup>D</sup>  
 Melder, Frederick Eugene  
 Mickelson, Paul Winfield<sup>A</sup>  
 Melson, Ray Clarence (*magna cum laude*)

MacDonald, Willard<sup>M</sup>  
 Mielke, Marie Elizabeth  
 Million, John Carroll  
 Monty, George Ranc<sup>A</sup>  
 Myers, Percy L.

O'Neill, William Thomas

Peabody, Emery Frederick<sup>D</sup> (*magna cum laude*)

Peterson, Hugo A.<sup>M</sup>  
 Playter, Charles Gray<sup>A</sup>

Remington, Cecil Gustaf  
 Richards, John S.

Sanford, Rollin Harrison  
 Satoris, Fred Pence<sup>A</sup>  
 Shigemura, Chiye<sup>M</sup>  
 Sickler, Barclay J. (*magna cum laude*)

Skidmore, Samuel Alexander<sup>A</sup>  
 Stansbery, Douglas Collin  
 Strother, Adelyn (*cum laude*)  
 Sundstrom, William James<sup>M</sup>  
 Swan, John William  
 Swanberg, Amy<sup>D</sup>

Taggart, George Moore III<sup>M</sup>  
 Tanzer, Max William<sup>A</sup>  
 Toner, George Moore  
 Tsi, Hsiao Chih<sup>A</sup>  
 Tsui, Tit Shan<sup>A</sup>

Van, Eric Preston  
 Vassar, John Arthur  
 Weber, George  
 \*Westrom, Frederick Nicholas<sup>D</sup>  
 Wheaton, Harry Joseph  
 Wiegel, Dorothea June  
 Williams, Berwyn R.<sup>M</sup>  
 Wilson, Abe Y.<sup>M</sup>  
 Wheeler, Beulah O.

\*Died, November 19, 1925

Witcomb, Douglas Arthur  
 Wood, Everett Powers<sup>a</sup>  
 Wu, Ander Y. Cheung<sup>m</sup>  
 Wuthenow, Arthur, Jr.

Wyckoff, Walter Lowe  
 Zimmerman, Philo Ralph (*magna cum laude*)  
 Zurbrick, John W.<sup>m</sup>

## SCHOOL OF LAW

## BACHELOR OF LAWS

Ashley, Paul P.<sup>p</sup>  
 Audett, Theophilus Bernard

Maslan, Benjamin A.  
 Morford, Seth Harold

Bascom, H. W.  
 Bashor, Thurston C.  
 Brown, Warren, Jr.  
 Bryan, James Wesley, Jr.  
 Burrus, Adelyne Martha

Newman, Lee Lewis  
 Peebles, Orville Edward  
 Peterson, Jennings Edward<sup>p</sup>  
 Pierce, Clarence W.<sup>p</sup>

Carlson, Theodore David  
 Coble, James Arnold<sup>p</sup>

Refling, Arnold  
 Sammis, Lowden  
 Seltzer, Lawrence  
 Shain, Julius  
 Snyder, Hart  
 Stirling, Thomas Brents

Dunn, Arthur G., Jr.

Greenbank, Herbert Archer

Halversen, Kendall  
 Hammack, James R.  
 Heiman, Jeffrey  
 Henriksen, Frederick Stanley  
 Herren, William Albert  
 Hooper, Eugene Francis<sup>a</sup>

Taylor, Robert Dinsmore  
 Thompson, Alfred  
 Trumbull, John T.  
 Tucker, Wilmon Stevens

Uhlmann, William Paul

Langlie, Arthur B.  
 Langlow, Wesley A.  
 Lee, Artrudoe L.

Walker, William Burwell  
 Walters, Chalmer Gordon  
 Walthew, John Forbes  
 Westland, Alfred John, Jr.

Mallery, Joseph Arthur

York, Arthur Fitch

## LIBRARY SCHOOL

## BACHELOR OF SCIENCE IN LIBRARY SCIENCE

Connolly, Zoa Eliza

Lanning, Mabel Mary  
 Larkin, Lucretia Starr<sup>p</sup>  
 Larson, Luella Clair<sup>p</sup>  
 Lewis, Marjory Livingston B.

Fairservice, Hazel  
 Falkoff, Emma

MacDonald, Margaret Ruth<sup>a</sup>  
 MacGregor, Ellen  
 McMeekin, Florence A.  
 Meeks, Anastasia Patrice  
 Moore, Marguerite Eleanor  
 Mutch, Ida Paine

Geist, Marian E.  
 Goodman, Bertha Doris  
 Greenwood, Bessie

Nelson, Frances Marie

Hall, Roxie  
 Hill, Ruth Alfarata

Parks, Clemence Elizabeth Field<sup>p</sup>  
 Plemon, Gladys Mav

Jarboe, Edna Marie  
 Jones, Margaret Bell<sup>m</sup>  
 Jones, Winnifred

Robinson, Rose

Schreck, Mildred  
 Slauson, Celeste<sup>b</sup>  
 Smith, Anne Marie  
 Sporseen, Elsie Dagny  
 Stapleton, Margaret L.  
 Stith, Kathryn

Teegarden, Jeanette<sup>b</sup>  
 Turnbull, Evangeline Bancroft  
 Walsh, Ellen Lucille (*cum laude*)  
 Weeding, Ruth Harriett

### SCHOOL OF JOURNALISM

#### BACHELOR OF ARTS IN JOURNALISM

Bassage, Harold Edwin  
 Child, Helen Taylor  
 Cleveland, Carl M.  
 Fitzharris, Edward James<sup>a</sup>  
 Frost, Vernon<sup>ac</sup>  
 Frudenberg, Mildred Lee<sup>a</sup>  
 Goldsmith, Louis Chilton  
 Hahn, Cathryn Louise

JaBush, Carol Vinson  
 Jacobs, Josephine Jerrine  
 Lund, John Vognild  
 Pampel, George Byron  
 Rock, Clifton Donald  
 Williamson, Ralph Kenison  
 Wiseman, Orville Rupp<sup>b</sup>



## GRADUATE DEGREES

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### GRADUATE SCHOOL

#### CHEMICAL ENGINEER

Marvin Greenwood Holt

B.S. in Ch.E., University of Washington, 1922  
Thesis: Concrete Piling

#### CIVIL ENGINEER

Daniel Lester Evans

B.S. in C.E., University of Washington, 1917  
Thesis: The Stuck River Bridge—Part II

Donaldson Hampton Evans

B.S. in C.E., University of Washington, 1925  
Thesis: The Stuck River Bridge—Part I

George Edward Hawthorn

B.S. in C.E., University of Washington, 1915  
Thesis: The Design of Cement Concrete Pavement Slabs

Alfred Lawrence Miller

B.S. in C.E., University of Washington, 1920  
Thesis: The Design of a Welded Steel Tubing Airplane Structure

Robert Bowman Van Horn

B.S. in C.E., University of Washington, 1916  
Thesis: Cost Estimation of Irrigation Works

#### MECHANICAL ENGINEER

William Lyle Dudley

B.S. in M.E., University of Washington, 1912  
Thesis: Centrifugal Fans

#### MASTER OF ARTS

George Newton Adrians<sup>o</sup> (English)

A.B., University of California, 1922  
Thesis: The Social and Political Satires of William Dunbar

Felicitas Ankele (German)

A.B., University of Washington, 1925  
Thesis: Thomas Manns *Zauberberg* als bildungsroman

Nemias Bramlette Beck<sup>o</sup> (English)

A.B., University of Washington, 1924  
Thesis: Chaucer and Boccaccio's *Decamerone*, a Study of Influence

Carl Spurgeon Bell<sup>o</sup> (Education)

B.S., Ohio Wesleyan University, 1915  
Thesis: A Comparison of Six Systems of Handwriting

Marie Antoinette Bollman<sup>o</sup> (Education)

B.Ed., University of Washington, 1920  
Thesis: Secondary Education in the Philippine Islands

Lois Eula Brown<sup>a</sup> (English)

A.B., University of Washington, 1920  
Thesis: Santayana's Definition of Beauty

Sarah Brown<sup>D</sup> (Philosophy)

A.B., University of Washington, 1923

Thesis: An Examination of Some Definitions of Reality

Joel Andrew Burkman<sup>A</sup> (Political Science)

A.B., University of Washington, 1923

Thesis: The Arguments Used in Opposing the Ratification of the United States Constitution

## Bernice Gertrude Chambers (Home Economics)

B.S., Oregon Agricultural College, 1923

Thesis: The Collection, Classification, Use and Care of Advertising Material in Teaching Junior High School Clothing and Textiles

## Victor Childs Christianson (English)

A.B., University of Washington, 1924

Thesis: The Theories of Certain Recent American Literary Critics

## Denzel Cecil Cline (Sociology)

A.B., University of Washington, 1924

Thesis: The Street Car Men of Seattle

## Faustine Douglas Cook (Education)

A.B., University of Indiana, 1918

Thesis: Thrift Teaching in the Public Schools as Exemplified in the School Savings Bank

John Edward Corbally<sup>A</sup> (Education)

B.A., Whitworth College, 1918

Thesis: A Survey of School District Number 114, Pacific County, for the Purpose of Introducing the Junior High School

## Max Donald Cornu (English)

LL.B., University of Washington, 1922

Thesis: The Influence of Rabelais on Sterne's *Tristram Shandy*Julia Virginia Cox<sup>D</sup> (English)

A.B., University of Washington, 1912

Thesis: Robert Frost and His Work

Melvin Gardner De Shazo<sup>A</sup> (Economics)

A.B., University of Washington, 1924

Thesis: Radical Tendencies in the Seattle Labor Movement as Reflected in the Proceedings of its Central Body

Isabel Donald<sup>A</sup> (French)

L.L.A., St. Andrews University, Scotland, 1916

A.B., University of Washington, 1925

Thesis: *Le Fils Naturel* of Diderot: A Critical and Comparative Study with Special Reference to *Il Vero Amico* of GoldoniEdgar Marion Draper<sup>A</sup> (Education)

A.B., University of Washington, 1916

Thesis: An Analysis of the Present Status of the High School Principalship Based on a Study of the Supervision of Teaching and School Activities by the High School Principal

## Raymond Forrest Farwell (Economics)

B.A., University of California, 1920

Thesis: Elements of Navigation

George Walker Freeman<sup>A</sup> (Education)

B.A., Spokane University, 1920

Thesis: A Study of the Available Factors of Prediction of Scholarship Success based upon the Freshman Class (1923-24) Nampa High School, Nampa, Idaho

## Rosalie Syena Godfrey (Home Economics)

B.S. in H.E., Kansas State Agricultural College, 1918

Thesis: A Survey of the Food Service and Marketing Methods in Certain of the Organized Women's Houses at the University of Washington

Anita Joan Graybill<sup>A</sup> (History)

A.B., University of Washington, 1924

Thesis: Hegemony in Greek History

John Henry Groth (English)

B.A., Wartburg College, 1912

Thesis: The German Sources of Theodore Parker's Philosophy and Theology

Alice Pratt Lathrop Gundlach (English)

A.B., University of Washington, 1924

Thesis: The Problem of Universals in Aesthetics

Sally Reeves Gyde (English)

A.B., University of Washington, 1922

Thesis: Problems in the Life of Chaucer

Paul Bowman Hanawalt<sup>D</sup> (Education)

A.B., College of Puget Sound, 1918

Thesis: The Reorganization of the Puyallup Junior High School

Kenneth Lyndon Hessenmiller<sup>M</sup> (Education)

B.A. in Ed., Washington State College, 1922

Thesis: A Study of American Municipal Universities

Claude Elmer Victor Henderlite<sup>M</sup> (English)

A.B., University of Washington, 1921

Thesis: James Branch Cabell's Philosophy of Romance

Hulda Hepperle<sup>D</sup> (Education)

A.B., University of Dubuque, 1923

Thesis: The Education of the North American Indian

Lillian Katherine Hocking (English)

A.B., University of Washington, 1925

Thesis: Cooper: Critic of America

James Hector Holden<sup>D</sup> (History)

B.Ed., University of Washington, 1921

Thesis: The Parliament of 1629, with Special Reference to the House of Commons

George Glenn Holmes (Economics)

B.S., Kansas State Teachers College, 1920

Thesis: The Treatment of No-par Value in Accounting Practice

Ethel Leora Hunt (Education)

A.B., University of Washington, 1905

Thesis: Education in Burma

Julius Peter Jaeger (English)

B.A., Spokane University, 1918

Thesis: The Political Views of Richard Baxter

Kai Jensen (Psychology)

A.B., University of Washington, 1924

Thesis: Distention of the Duodenum and its Relation to Subjective and Objective Phenomena

Adella Johnson<sup>D</sup> (French)

B.A., University of Minnesota, 1905

Thesis: A Study of Destouches' *Le Tresor Cache*

Florence Alice Johnson (Home Economics)

B.S. in H.E., University of Washington, 1920

Thesis: A Comparison of the Cellulose Acetate Type of Rayon with other Types of Rayon

William Edward Knuth<sup>A</sup> (Education)

A.B., University of Washington, 1924

Thesis: A Historical Study of the Relation of the American Secondary Schools and Colleges

## University of Washington

Ora Irene Landis<sup>A</sup> (English)

A.B., Whitworth College, 1915

Thesis: The Social Outlook of Charles Kingsley

Louise MacDonald (English)

A.B., University of Washington, 1924

Thesis: The Social Philosophy of William Morris

Audley Fleming Mahaffey (History)

A.B., University of Washington, 1922

Thesis: Townsend Harris, First Consul General to Japan

Charlotte Elizabeth Miller<sup>A</sup> (Latin)

A.B., University of Washington, 1924

Thesis: The Colloquial Element in the Satyricon of Petronius

Maud Elizabeth Miller (Education)

A.B., Union College, 1923

Thesis: Sketch of the Development of the High School Training Classes in Oregon with some Evaluations and Comparisons

Grace Edith Miner (History)

A.B., University of Washington, 1916

Thesis: A Century of Washington Fruit

Cleo Wakefield Montalva<sup>A</sup> (Spanish)

A.B., University of Washington, 1908

Thesis: Andres Bello, Life and Writings, with Special Reference to their Influence on Chilean Life

Louis John Neidert<sup>A</sup> (Education)

A.B., University of Washington, 1924

Thesis: The General Administrative Aspects of Supervisory Organization in Forty-four Cities

John Isao Nishinoiri (Sociology)

A.B., University of Washington, 1925

Thesis: Japanese Farms in Washington

Mary Elizabeth Norie (English)

A.B., University of Washington, 1925

Thesis: Intellectual Background of Edward Bellamy

Parker Lavella Norton (Education)

A.B., University of Washington, 1916

Thesis: Early Indications of Delinquency in Problem Boys

James Matthew O'Connor (English)

A.B., University of Washington, 1921

Thesis: Spenser's Use of the St. George Legend, the Fair Unknown, and other Medieval Romance Themes in Book One of the *Faerie Queene*

Ronald LeRoy Olson (Anthropology)

A.B., University of Washington, 1925

Thesis: Some Developments in the Material Culture of the Northwest Coast

Ruth Carpenter Peck<sup>A</sup> (Spanish)

A.B., York College, 1912

Thesis: The Treatment of Rodrigo el Godo by Spanish Writers and Others

Josephine Ann Pigott (History)

A.B., Manhattanville College, 1924

Thesis: English Diplomacy during the Greek War of Independence

Valeria Katherine Pigott (History)

A.B., Manhattanville College, 1921

Thesis: Early History of Stellacoom

Joel Joseph Pryde (History)

A.B., University of Washington, 1916

Thesis: Events Leading to the Mexican War

Miriam Myrtle Reinhart (History)

B.A., Reed College, 1925

Thesis: Secretary Franklin Knight Lane and the Alaska Railroad Problem

Edith Rhyne (Home Economics)

B.L., Kidd-Key College, 1907

B.S., College of Industrial Arts, 1918

Thesis: A Comparison of Silk Hosiery Sold through Five Sources of Retail Distribution

Elizabeth Cook Richardson (English)

A.B., University of Washington, 1924

Thesis: A Translation of Professor Louis Cazamian's *Psychological Evolution and Literature in England*

Marland Burnet Roaney<sup>D</sup> (Education)

A.B., University of Washington, 1924

Thesis: Preparation of Prospective Teachers in the University of Washington

Maude Alice Ryder<sup>A</sup> (Philosophy)

A.B., University of Washington, 1924

Thesis: The Philosophy of Anatole France

Charles Ulysses Southwick (French)

A.B., University of Washington, 1924

Thesis: The Daily Life of the Fourteenth Century as Revealed by the Poetry of Eustache Deschamps

Blanchard Perley Steeves<sup>A</sup> (Education)

B.A., Dalhousie University, 1898

Thesis: Present Day Tendencies in the Relation of the Library to the High School

Robert John Stevenson (English)

A.B., University of Washington, 1925

Thesis: A Comparative Analysis of the Tales of Hawthorne and Poe

Ottile Elise Terzieff (German)

A.B., University of Illinois, 1923

Thesis: Raabes entwicklungsprogram zu hohem menschentum mit besonderer rucksicht auf das amerikanische abenteuerleben in einigen seiner meisterwerke

Elmer Theron Thune (Education)

B.Ed., University of Washington, 1922

Thesis: The Place and Functions of Supervisors of Special Subjects in City School Systems

Yale Yih Tsang (Education)

B.A., Fuh Tan University, 1922

Thesis: An Experimental Study of the Effect of Vertical and Horizontal Alignment and of the Use of Punctuation Marks upon the Rate of Reading the Chinese Language

Wallace Theodore Wait (Education)

B.S., Whitworth College, 1916

Thesis: A Study of the Criteria for the Selection of High School Teachers

Grace Worthington<sup>A</sup> (Economics)

B.A., Wellesley College, 1917

Thesis: Occupational Changes of Women in American Industry

Della May Yancey<sup>A</sup> (English)

A.B., Carleton College, 1908

Thesis: The Revolutionary Spirit in Wordsworth

William Wallace Young<sup>A</sup> (Education)

A.B., University of Washington, 1924

Thesis: Problem Children in the High School

MASTER OF SCIENCE

James Washington Brown (Physics)

A.B., Western State College of Colorado, 1924

Thesis: Coefficients of Expansion of Some Special Alloys

*University of Washington*Harvey Cope<sup>A</sup> (Chemistry)

A.B., University of Washington, 1920

Thesis: Some Quinoline Derivatives and Isomers Promoted by Sunlight

Vivian Richard Damerell (Chemistry)

B.S., University of Washington, 1924

Thesis: A Study of Aluminum Oxide Hydrosol

Willard Henry Eller<sup>A</sup> (Physics)

B.S. in E.E., University of California, 1914

Thesis: A Study of the Magnetic Properties of Ferro-magnetic Materials when Carrying an Electric Current

Thomas John Etherington (Geology)

B.S., University of Washington, 1925

Thesis: The Stratigraphy and Paleontology of the Oligocene and Lower Miocene of the Chehalis River Valley, Washington

Richard Eugene Fuller<sup>D</sup> (Geology)

B.S., University of Washington, 1924

Thesis: The Geology of the Northeastern Part of Cedar Lake Quadrangle with Special Reference to the De-roofed Snoqualmie Batholith

Frank Andrew Lee (Pharmacy)

B.S., University of Washington, 1923

Ph.C., University of Washington, 1925

Thesis: The Reaction of Nitrosyl Chloride with Acetone

Arnold John Lehman (Pharmacy)

B.S., University of Washington, 1925

Thesis: Washington Wild Parsnip

Richard Ting Chuan Loh<sup>A</sup> (Chemistry)

B.S., Soochow University, 1925

Thesis: Some New Reactions of Thiocarbonyl

Kisaku Morikawa<sup>A</sup> (Bacteriology)

B.S., Hokkaido Imperial University, 1911

Thesis: The Tolerance of Some Bacteria Toward Sugar and Salt

Hazel Clara Murray (Chemistry)

A.B., University of Nevada, 1922

Thesis: The Condensation of Propional Dehyde with Methyl Ethyl Ketone

Hazel Margaret Neeley (Bacteriology)

B.S., Whitman College, 1925

Thesis: The Kinds and Number of Bacteria in Candy

Harold John Rafn<sup>D</sup> (Bacteriology)

B.S., University of Washington, 1924

Thesis: A Determination of the Nature of Methylene Blue Reduction by *Escherichia Coli* and other Bacilli

Leonard Rhodes (Pharmacy)

B.S., University of Washington, 1924

Thesis: A Method for the Determination of Alcohol in Drug Products

Martha Wheatly Shackelford<sup>A</sup> (Zoology)

A.B., College of Puget Sound, 1922

Thesis: A Study of Variation in Plankton in Argyle Lagoon

Oscar Louis Starr (Physics)

B.S., Whitman College, 1923

Thesis: The Variation of Electrical Resistance with Longitudinal Pressure

Emma Jo Stewart (Bacteriology)

A.B., Reed College, 1921

Thesis: The Role of Symbiosis in the Putrefaction of Meat

Augustus Allison Wagner (Chemistry)

A.B., Pacific University, 1911

Thesis: The Sand Test as Applied to High Explosives

Wayne Winfield Wells (Zoology)

A.B., University of Oregon, 1919  
Thesis: Synopsis of the Symbiont Crabs of the Family Pinnotheridae of the Puget Sound Region

Marion Whiting White (Psychology)

A.B., Wellesley College, 1922  
Thesis: The Value of Visual Imagery Tests for Predicting Success in Engineering

Homer Orion Zumwalt (Pharmacy)

B.S., University of Washington, 1924  
Thesis: Quantitative Estimation of Poisons—Interference of Preservatives

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Chester Kessler Clausen

B.S. in C.E., University of Washington, 1924  
Thesis: The Discharge and Efficiency of Short Tubes

MASTER OF SCIENCE IN CIVIL ENGINEERING

George Lisle Hoard

B.S. in E.E., University of Washington, 1917  
Thesis: A Comparative Study of Lighting Rates in the State of Washington

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Robert Harold Gray Edmonds

B.S., Whitman College, 1915  
B.S. in M.E., University of Washington, 1922  
Thesis: Photo-elasticity and its Application to the Problems of Stress Distribution in Curved Beams and Hooks

Bryan Towne McMinn

B.S., Oregon Agricultural College, 1918  
Thesis: Photoelastic Investigation of Stresses in a Chain Link

MASTER OF SCIENCE IN CERAMIC ENGINEERING

Roland Joseph Clark

B.S. in Cer.E., Alfred University, 1924  
Thesis: Refining of Pacific Northwest Kaolin

MASTER OF SCIENCE IN GEOLOGY AND MINING

William Michael Romischer

B.S. in Geol. and Mining, University of Washington, 1925  
Thesis: Classification and Stratification Tests of Washington Coal

MASTER OF SCIENCE IN MINING ENGINEERING

Clifford Webster Read<sup>a</sup>

B.S. in Mining Engineering, 1924  
Thesis: The Tabling of Fine-size Coal

MASTER OF FORESTRY

Arthur Leslie Sanders

B.S.F., University of Washington, 1925  
Thesis: The Elimination of Waste in Saw-Mill Practice

Josiah Theodore Shull

B.S.F., University of Montana, 1923  
Thesis: Overhead Logging on the Pacific Coast

John William Kench Wernham<sup>p</sup>

B.A. in Forestry, University of Oxford, 1921  
Thesis: The Veneer Industry and its Relation to the Profitable Utilization of South Indian Hardwoods

*University of Washington*

## MASTER OF SCIENCE IN FISHERIES

Norman Donald Jarvis<sup>M</sup>B.S. in Fisheries, University of Washington, 1924  
Thesis: Iodine Content of the Pacific Coast Salmon

## MASTER OF SCIENCE IN PHARMACY

Louis Wait Rising

B.S., Oregon Agricultural College, 1924  
Thesis: Hypnotics of the Barbituric Acid Series

## MASTER OF BUSINESS ADMINISTRATION

Raymond W. Coleman

A.B., University of Washington, 1923  
Thesis: Governmental Attempts to Curb the Monopoly of the Aluminum Company of AmericaShigeichi Fushimi<sup>A</sup>B.B.A., University of Washington, 1924  
Thesis: The Cotton Manufacturing Industry of Japan and her Competitors in the Oriental Markets

Richardson Henry Rowntree

B.B.A., University of Washington, 1924  
Thesis: The Open Price Plan, a Constructive Criticism of CompetitionHsieh Chee Sun<sup>D</sup>B.S., Fuh Tan University, 1922  
Thesis: The Tariff System of ChinaHaruo Ross Yonemoto<sup>A</sup>B.A., University of British Columbia, 1923  
Thesis: The Chinese Eastern Railway and its Economic and International Importance in the Far East

## DOCTOR OF PHILOSOPHY

Clyde Myron Cramlet

B.A., Walla Walla College, 1916  
M.S., University of Washington, 1920  
Thesis: Invariant Tensors and their Application to the Study of Determinants and Allied Tensor Functions

James Emmanuel Ernst

A.B., Muhlenberg College, 1917  
M.A., University of Pennsylvania, 1922  
Thesis: The Political Theory of Roger WilliamsWilliam Clarence Maxwell<sup>M</sup>B.A., Stanford University, 1918  
M.A., Stanford University, 1921  
Thesis: Word-compounding in Spenser

John Augustine Osgniack

A.B., University of Washington, 1922  
M.A., University of Washington, 1922  
Thesis: The Scholastic Doctrines of the Four Principal CategoriesDennis C. Troth<sup>D</sup>B.Ed., University of Washington, 1919  
M.A., University of Washington, 1920  
Thesis: History and Development of Common School Legislation in Washington



## NORMAL DIPLOMAS

## UNIVERSITY FIVE-YEAR NORMAL DIPLOMA

Adams, Frances Aletha<sup>A</sup>  
 Adkins, Helen Ernestine  
 Akin, Cecilia Eileen<sup>A</sup>  
 Albertson, Lois Lee  
 Alleman, Marion Elwell<sup>M</sup>  
 Allison, Katherine Maude  
 Anders, Bertha Irene<sup>D</sup>  
 Anderson, Alma Carolyn<sup>A</sup>  
 Anderson, Audrey Jean  
 Anderson, Elizabeth Jane<sup>A</sup>  
 Anderson, Helen Gretchen  
 Anderson, Lillian Ida  
 Ankele, Felicitas Charlotte<sup>A</sup>  
 Arlander, Ruth A.<sup>A</sup>  
 Arnell, Rebecca<sup>M</sup>

Babbitt, Ardsley Gertrude  
 Baker, Helen Melissa  
 Baker, Martin Henry<sup>A</sup>  
 Baker, Mary Harriet<sup>A</sup>  
 Barber, Helen Marguerite  
 Barron, Dorothy Fraser<sup>D</sup>  
 Barrow, Gwendolyn  
 Barthelemy, Lillian McNair  
 Batie, Carmen Ardis  
 Batdorf, Beryl  
 Baumann, Carolyn Margaret<sup>A</sup>  
 Bayley, Madeline Virginia<sup>D</sup>  
 Bayley, Mildred  
 Bayley, Nettie Ethel  
 Beatty, Vera Josephine  
 Beck, William Helgren  
 Becket, Hugh Melville  
 Bedke, Madge<sup>A</sup>  
 Bell, Mildred<sup>A</sup>  
 Bellazzi, Roberta Anna  
 Benedum, Clara Yantis  
 Bennett, Constance Anne<sup>A</sup>  
 Bentley, Nora Mulock<sup>M</sup>  
 Betz, F. Gerard  
 Biggers, Ruth Caroline  
 Blanchard, Fred Clayson  
 Bone, Marguerite  
 Boner, Bernice A.<sup>M</sup>  
 Booker, Paul E.<sup>D</sup>  
 Bowen, Mary Elizabeth  
 Bower, Ruth Albertine  
 Boxer, Mary Edith  
 Boyer, Edith Aileen  
 Brannon, Myrtle Jane  
 Brattain, Berry  
 Breuer, Leo W.  
 Brier, Howard Maxwell<sup>D</sup>  
 Briggs, Dorothy E.  
 Brooks, Irene Mae

Brown, Elizabeth  
 Brown, Martin  
 Brown, Mary Catherine  
 Buchanan, Helen Lee  
 Buckley, Nancy  
 Budde, Charles Arthur<sup>D</sup>  
 Burgess, Carolyn  
 Burmeister, Claudys Susanne<sup>A</sup>  
 Burnam, David Lincoln  
 Burns, Nina May  
 Burpee, Frances Helen  
 Butt, Ferdinand Hinckley<sup>A</sup>  
 Byers, Dorothy Ovida  
 Byers, Eleanor Douglas  
 Byrne, Kathryn Ann<sup>A</sup>

Calhoun, Charles Eliot<sup>A</sup>  
 Campbell, Helen Ruth<sup>M</sup>  
 Campbell, Myron Madison  
 Capen, Donald Frank<sup>A</sup>  
 Capen, Ellery  
 Carey, Willard Wayland  
 Carlson, Florence Amelia<sup>D</sup>  
 Carlson, John A.<sup>A</sup>  
 Carson, Emmy Lou<sup>A</sup>  
 Carstens, Lillian M.<sup>A</sup>  
 Carter, Faith E.  
 Case, Margaret Francis  
 Castle, Sara Lauretta  
 Caulkins, Glenn W.<sup>A</sup>  
 Cavanaugh, Edith Frances  
 Charlton, Harriet J.  
 Christopher, Ian  
 Clark, Wesley Melvin<sup>A</sup>  
 Cochrane, Mavis Claire  
 Coe, Winifred Elizabeth<sup>A</sup>  
 Coleman, Vera Faye  
 Connor, Aileen Maude<sup>M</sup>  
 Cook, Faustine Douglas<sup>M</sup>  
 Cooper, Edwin Vermont<sup>A</sup>  
 Corlett, Mildred Virginia  
 Cowan, Carol Merle  
 Crowley, Nina R.<sup>A</sup>  
 Cowell, Ray Theodore  
 Coyne, Sophie  
 Criddle, Carol Elizabeth  
 Cruzen, Eugenia Celeste<sup>A</sup>  
 Cundiff, Velda Pauline  
 Cutts, Cecilia<sup>A</sup>

Dailey, Edith Louise  
 Dalgity, Jean V.<sup>D</sup>  
 Dark, Dorothy<sup>A</sup>

Davies, Enid<sup>A</sup>  
 Davis, Paul A.<sup>A</sup>  
 DeBruiler, Olive  
 DeGarmo, Leona Marie  
 de Heus, Margaret Rachel<sup>A</sup>  
 Delaney, Verner Dail<sup>A</sup>  
 Donworth, Mary  
 DelDuca, Elizabeth  
 Driscoll, Eugene Alton<sup>M</sup>  
 Dugan, Helen Justina  
 Dunmore, Blanche  
 Dutch, Dorothy Estella<sup>D</sup>

Eades, Beulah Agnes  
 Egtvet, Percy C.  
 Ehlen, Maxine Elliott  
 Ehrlich, Barbara Elizabeth<sup>D</sup>  
 Eidal, Marie Geneva  
 Elledge, Lela M.<sup>A</sup>  
 Elliott, Edith Alexandra<sup>A</sup>  
 Engdahl, Selma<sup>A</sup>  
 Enger, Bernice<sup>D</sup>  
 Engle, Nathanael Howard<sup>A</sup>  
 Eriksen, Edward George<sup>A</sup>  
 Evans, Earl Huston<sup>A</sup>  
 Evans, Marian  
 Evatt, Phillip Orrin

Farber, Lena  
 Farrar, Myrtle I.<sup>A</sup>  
 Ferrier, Gladys Clotilde  
 Fields, Earl Tom  
 Finch, Myron H.  
 Fisher, Dorothy  
 Fisk, Russell Trevor Young  
 Fitterer, Dorothy Marian  
 Flock, Mabel Violet  
 Folts, Elva  
 Foote, Luanda<sup>D</sup>  
 Forbes, Helen Ella  
 Ford, Gertrude Catherine  
 Foreman, Iona S.  
 Foss, Mary Loretta<sup>A</sup>  
 Fowler, Franklin W.<sup>A</sup>  
 Freeburg, Roy Everett  
 Friese, Bernice Valarie  
 Fry, Elizabeth Henry

Galbraith, Mary Grace<sup>A</sup>  
 Garred, Max Frank<sup>A</sup>  
 Gerbel, Maribeth  
 Gerrish, Olive May<sup>A</sup>  
 Gerritt, Harriet Ina<sup>A</sup>  
 Giesy, Huldamay  
 Gilhams, Helen Maud  
 Gillett, Erma Mills<sup>M</sup>  
 Glen, Juliet Katherine  
 Goehring, Viola Elsie<sup>A</sup>  
 Graefe, Margaret Louise  
 Grant, Helen Louise

Graves, Elizabeth<sup>A</sup>  
 Greiner, Mary Susan  
 Griffin, Marie M.

Haack, Wilhelmina Margaret<sup>A</sup>  
 Haase, Albert Paul  
 Hagerty, Jean Mason  
 Hahn, Cathryn Louise  
 Halberstadt, Elizabeth Henrietta<sup>A</sup>  
 Hale, Oron James<sup>M</sup>  
 Hall, Helen Marie<sup>A</sup>  
 Hannant, Olive Marrisco  
 Hansen, Reta Prideaux  
 Hanson, Louise Jeanette<sup>A</sup>  
 Hanson, Mildred Moore  
 Harrison, Mae<sup>A</sup>  
 Harvey, Lora Mary  
 Hartman, G. Howard<sup>A</sup>  
 Haskell, Margaret E.  
 Havlik, Mary Genevieve  
 Heaney, Genevieve  
 Heinrich, John Patrick  
 Henry, Ruth Hope<sup>A</sup>  
 Heyburn, Frances Louise  
 Hills, Carlotta<sup>A</sup>  
 Hinman, Grace Elvira<sup>A</sup>  
 Hoffland, Henry Harrison  
 Holmes, George Glenn  
 Holtzinger, Ruth Estelle  
 Hong, Anna<sup>A</sup>  
 Hood, Helen R.<sup>A</sup>  
 Howard, Helen Elena  
 Hoyt, Donald Reid  
 Hunt, Ernest R.<sup>A</sup>  
 Hutchinson, Mary Joy

Ingison, Lottie May<sup>D</sup>  
 Isbell, Raymond Floyd<sup>M</sup>

Jackson, Lillian  
 Jensen, Kai<sup>M</sup>  
 Jensen, Mary Charlotte  
 Jensen, Olive Gladys<sup>A</sup>  
 Johnsen, Pauline  
 Johnson, Dorothea Elisabeth<sup>M</sup>  
 Johnson, Marvel Rose  
 Johnson, Myrtle Dorothy  
 Johnson, Raymond Frank  
 Jones, Luella Eliza  
 Jones, Mary Gwendolen<sup>A</sup>  
 Jordan, Frances Mayes<sup>A</sup>

Kalk, Mary  
 Kelly, Kathryn  
 Kenyon, Hazel McBee  
 Kern, Charlotte Helen  
 Kettenring, Grace Katherine  
 Kilkenny, Mable Reynolds<sup>A</sup>

KinKade, Russell Wade  
 Kinne, Frances Elinor  
 Kirk, Douglas G.<sup>M</sup>  
 Knighton, Blanche  
 Knowles, Dale Isabel  
 Koenig, John<sup>A</sup>  
 Korter, Irene Lizzett  
 Kretsinger, Helen Maury  
 Kraus, Ada Maud<sup>A</sup>  
 Krumm, Hulda Emily  
 Keuchenberg, Marie Edith

LaPlant, Mary<sup>A</sup>  
 Lawler, Loretta<sup>A</sup>  
 Leaf, Helen Veva  
 Lee, Vernet Charles<sup>A</sup>  
 Leeper, Marion LeMoyné<sup>M</sup>  
 Leibst, Signe Mauren<sup>A</sup>  
 Lemon, Harry Edward<sup>M</sup>  
 Lester, Verna-May  
 Lewis, Wilma Eleanor  
 Lienkaemper, Miriam  
 Lincoln, Zaida  
 Lindholdt, Alfred Ernest  
 Lindstedt, Oscar Herman  
 Lloyd, Katherine Mary<sup>A</sup>  
 Loughead, Eleanore Marguirite  
 Low, Josephine<sup>A</sup>  
 Lunnum, Anna Joan  
 Luthy, Marion Stuart<sup>D</sup>

MacKenzie, Helen Anabel  
 McCann, Mable Ruth<sup>M</sup>  
 McCann, Helen Rosalia  
 McCarty, Ruth Elizabeth  
 McCoubrey, Arthur Martin  
 McCroskey, Jean  
 McGibbon, Eileen  
 McGovern, Foster Lincoln  
 McIlvain, Dorothy Salome  
 McIntosh, Edith Alice<sup>D</sup>  
 McKay, Estelle  
   (Sister Mary Estelle)<sup>D</sup>  
 McKeague, Florence Wilkerson<sup>M</sup>  
 McKenzie, Edward Granville  
 McNerthney, Catherine  
   (Sister Mary Margaret)<sup>A</sup>  
 McKnight, J. Alice  
 McLeod, Cleo Ruth  
 McMonagle, Alberta  
 McRae, Edwin<sup>A</sup>  
 Macfarlane, Lorna E.<sup>A</sup>  
 Macomber, Freeman Glenn  
 Macomber, Leone Faris McBride  
 Maginnis, William John<sup>M</sup>  
 Mahoney, Mary Katharine  
 Main, Clara Agnes  
 Mattox, Clifford J.<sup>A</sup>  
 Medler, Louisa Adelaide

Melby, Mildred Elin  
 Mennell, Estella Peabody<sup>A</sup>  
 Merrill, Gladys<sup>D</sup>  
 Meyer, Edward A.<sup>A</sup>  
 Meyer, Wilhelm Hugo<sup>A</sup>  
 Michie, Frances Ethel<sup>A</sup>  
 Mickelson, Paul Winfield<sup>A</sup>  
 Middleton, Maurine  
 Miley, Louise<sup>A</sup>  
 Miller, Clarice Dorothy  
 Miller, Ira Thomas  
 Miller, Lecil Chase  
 Miller, Margaret Harvey  
 Mills, Merritt Gordon  
 Miner, Eva Lee<sup>D</sup>  
 Mitchell, Dorothy<sup>A</sup>  
 Monroe, George Henry<sup>A</sup>  
 Moore, Otto Eugene  
 Moore, Sylvan Charles<sup>M</sup>  
 Morrison, Jessie Alene  
 Muns, Zola Fern  
 Murphy, Agnes Kathryn  
 Murphy, Margaret Mary  
 Myers, Thomas F.<sup>A</sup>

Nagley, Lois Muriel<sup>A</sup>  
 Nachant, Virginia Louise  
 Neerland, Ruth Christine  
 Nelson, Andrew Nathaniel  
 Neville, Jessie Elizabeth  
 Newmack, G. Nichol  
 Newman, Marguerite Lillian  
 Nixon, Ruth Marie  
 Noble, Mildred Alice

O'Brien, Mary<sup>A</sup>  
 O'Leary, Kathleen Le Nor  
 O'Leary, Mary Eileen  
 Olsen, Leah I.<sup>A</sup>  
 Orton, Helen Cook  
 Oyen, Penelope

Patch, Della June<sup>A</sup>  
 Paulson, Stina Ellida  
 Payne, Mattie Caroline  
 Peers, Rosa Frances  
 Phillips, Constance<sup>A</sup>  
 Phillips, Dorothy Myers<sup>D</sup>  
 Phillips, Olive Elizabeth  
 Phillips, Walter Thomas<sup>A</sup>  
 Pidduck, Marjorie Katherine<sup>A</sup>  
 Pillard, Ray Amile<sup>A</sup>  
 Pittendrigh, Dora  
 Plank, Faye Marie  
 Pollom, Arta-Rae  
 Pollom, Lois Fay  
 Porter, Dorothy Isabel

Potter, Donald Deuel<sup>™</sup>  
 Prescott, Nellie Taylor  
 Pretlow, Sarah Isabella  
 Proelss, Maurine  
 Puette, Raymond Vann<sup>A</sup>  
 Pursel, Adrian Dickson<sup>™</sup>

Raasch, Leonard O.<sup>A</sup>  
 Rafish, Yetta  
 Raymond, Elizabeth MacLeod  
 Reed, Genevieve E. M.  
 Reed, Helen Van Alen  
 Rhodes, Josephine Vivian<sup>™</sup>  
 Riddiford, Ruth Kathryn  
 Robb, Marian Stuart  
 Robertson, Angeline Turinsky  
 Rockwitz, Alice Emma  
 Rohowits, Edythe Katherine<sup>A</sup>  
 Rosèn, Johanna Josephine  
 Rosendahl, Ily Saima  
 Rosenquist, Oscar William<sup>™</sup>  
 Ruddell, Eva Jean  
 Rutherford, George  
 Ryan, Florence Ila

Satre, Alice<sup>A</sup>  
 Schofield, Mary Gwendolyn<sup>A</sup>  
 Schubert, Helen  
 Scofield, Susan Ada  
 Selby, Miriam R.  
 Sells, John Alexander  
 Sennes, Gertrude J.  
 Seyler, Ernestine Margaret  
 Seymour, Keith M.  
 Scott, Barbara Helen<sup>A</sup>  
 Shaffner, Mary Murchison<sup>A</sup>  
 Sharp, Mary Corts  
 Sheppard, Jessie  
 Sheridan, Helen Christine<sup>A</sup>  
 Shields, Josephine Euphemia<sup>A</sup>  
 Shultz, Celia Barbara<sup>A</sup>  
 Silva, Elizabeth McDonnell  
 Simmonds, Dorothy Pearl<sup>™</sup>  
 Simson, Louis Dewey<sup>A</sup>  
 Skeith, Anastasia Bennett  
 Skibness, Marie Bertine  
 Slavin, Jack<sup>™</sup>  
 Smith, Aileen Mary<sup>A</sup>  
 Smith, Bernice Caroline  
 Smith, Byron B.<sup>A</sup>  
 Smith, Jessie Elizabeth<sup>A</sup>  
 Snyder, Harold C.<sup>A</sup>  
 Springer, Alice Eleanor<sup>A</sup>  
 Springer, Hestell  
 Starr, Geraldine  
 Stone, Helen Blanche  
 Strevey, Tracy Elmer<sup>™</sup>  
 Struthers, Selma Violet  
 Stryker, Gretchen

Sturgis, Alice E.  
 Sullivan, Nellie  
     (Sister Mary Louise)<sup>A</sup>  
 Sutton, Elizabeth  
 Swanberg, Amy<sup>™</sup>  
 Sweet, Marie<sup>™</sup>

Tanner, Jesse A.  
 Tapping, Margaret Elizabeth  
 Taylor, Arthur Samuel<sup>™</sup>  
 Thome, Helen Elizabeth  
 Thompson, Adelle<sup>A</sup>  
 Thomsen, Esther Berniece<sup>A</sup>  
 Thomson, Robert A.  
 Toles, Martha Isabelle<sup>A</sup>  
 Townsend, Lucile Evelyn  
 Turnbull, Fred Archie  
 Turner, Alice Gertrude

Uhlmann, Martha Miller<sup>A</sup>  
 Underhill, Julia Adams<sup>™</sup>  
 Upcraft, Winfield Scott<sup>™</sup>

Van de Wetering, George<sup>A</sup>  
 Van Houten, Lois N.  
 Van Orsdall, Otie Pearl  
 Verhamme, Evelyn Maria

Waddell, Margaret<sup>™</sup>  
 Waechter, Florence  
 Wait, Thelma Catherine<sup>™</sup>  
 Walsh, Alice Beatrice  
 Watkins, Ina-Ree<sup>A</sup>  
 Waxmann, Marie Josephine<sup>A</sup>  
 Westervelt, Howard Wilson  
 Westfall, Virginia<sup>A</sup>  
 Wheeler, Beulah O.  
 Wheelihan, Harriot  
 Whitcomb, Alice Elizabeth<sup>A</sup>  
 Whitcomb, Catherine  
 White, Dorothy Elizabeth  
 White, Dorothy R.  
 Whittier, Doris Callow<sup>A</sup>  
 Widell, Hilda L.  
 Williams, Frances<sup>A</sup>  
 Williams, Mentor Lee<sup>A</sup>  
 Williams, Ruth Helen  
 Williamson, Robert Leslie  
 Wilson, Clotilde Marconnier  
 Woodbury, Lydia Alice  
 Wright, Ralph Gerald<sup>™</sup>  
 Wynstra, Wieber

Young, Elizabeth Charlene<sup>A</sup>

Zeiher, Honora Sophie  
 Ziel, Frederick Leonard<sup>A</sup>

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

Galvez, Pedro Rilloraza<sup>A</sup>

Soller, Telesforo G.<sup>A</sup>

Pascual, Eduardo Felipe<sup>D</sup>

UNIVERSITY LIFE DIPLOMA

Alway, Harry Grant<sup>A</sup>  
Anderson, Evelyn Martha<sup>A</sup>

Graybeal, Mattie Floss<sup>A</sup>  
Gyde, Sally Reeves<sup>D</sup>

Baker, Carl Oscar<sup>A</sup>  
Bates, Marie Christensen<sup>A</sup>  
Bell, Wyloha  
Bennett, Mabelle French  
Benthien, Elsie M.<sup>A</sup>  
Berst, Esther Weage<sup>D</sup>  
Bitner, Ella M.<sup>M</sup>  
Bjorkquist, Enoch Joseph<sup>A</sup>  
Bockmier, Dorothy F.<sup>A</sup>  
Bolton, Edwin L.<sup>A</sup>  
Bonner, Pearl Pauline  
Bowen, Frank Herbert<sup>A</sup>  
Breakey, Forrest Willard<sup>A</sup>  
Bringinghurst, Alice C.<sup>M</sup>  
Burkman, Joel Andrew<sup>A</sup>  
Burkman, Orpha Hampton<sup>A</sup>  
Burnham, Helen Marie<sup>A</sup>  
Burnside, Mary Frances<sup>A</sup>  
Bursell, Margaret A.<sup>A</sup>  
Byron, Margaret<sup>A</sup>

Carter, Mary Frances<sup>A</sup>  
Chamberlain, Percy I.<sup>A</sup>  
Cole, Cleo Gennette<sup>A</sup>  
Cook, Lois Ford<sup>A</sup>  
Cooper, Isabel Donkin<sup>A</sup>  
Corlett, Thirza  
Corskie, Florence Beryl<sup>M</sup>  
Crane, Lillian Alice Dean  
Creamer, Una Lillian

Dahl, Bernice Irene  
Davis, Annie Gertrude<sup>M</sup>  
Dimmitt, Lorris Myrvin<sup>A</sup>

Elyea, Winifred<sup>A</sup>  
Ericksen, Laila Genevieve  
Evanson, Theodore O.<sup>A</sup>

Faubert, Alice M.<sup>A</sup>  
France, Alda May<sup>M</sup>

Galligan, Glendon Edward<sup>A</sup>  
Gatewood, Theresa Van  
Gendron, Noella Antoinette<sup>A</sup>  
Gray, Howard B.<sup>A</sup>

Hall, Marjorie Chapman<sup>A</sup>  
Hawks, Ruth Combs<sup>A</sup>  
Hawley, Verla Slater<sup>M</sup>  
Hibbard, Myra<sup>A</sup>  
Holden, James Hector<sup>M</sup>  
Hollinger, Erma M. Morris  
Horn, Agnes Downs<sup>D</sup>  
Hubbell, Ruth Margaret<sup>A</sup>  
Hurlburt, Blanche<sup>A</sup>

Jenkins, Helena

Kangley, Helen<sup>D</sup>  
Kelley, Louise Valverde  
Kelley, Martha Eugenie<sup>A</sup>  
Kipp, Pearl V.<sup>D</sup>  
Kobler, Anna Helen<sup>A</sup>  
Kraft, Marjorie G.

Lamoreux, Harvey DeWitt<sup>A</sup>  
Larsin, Josephine<sup>A</sup>  
Leeper, Helen G.  
Lehman, Helen Bolster<sup>M</sup>  
Little, Dorothy Vernon<sup>M</sup>

McCorkill, Minnie Verdilla<sup>A</sup>  
McDonough, Otto George<sup>M</sup>  
McGill, Merrie P.<sup>M</sup>  
McKee, George M.<sup>A</sup>  
McPherson, Dorothy Vesta<sup>M</sup>  
Mason, Lela E.<sup>A</sup>  
Mathis, Madge Mary  
Metzger, Edith Brown<sup>M</sup>  
Meyer, May E.<sup>A</sup>  
Meyer, Rita<sup>M</sup>  
Miller, Elsie Myer<sup>A</sup>  
Millican, Harold A.<sup>A</sup>  
Moore, Charles Alexander<sup>A</sup>  
Mount, James Nathaniel<sup>A</sup>

Nuelson, Lucile E. Ewing

Olson, Helen Frances<sup>A</sup>  
Olson Lillian Eleanor<sup>A</sup>  
Orrell, Jessie<sup>A</sup>  
Ostrand, Hildur<sup>A</sup>

Peterson, Hazel Alberts<sup>A</sup>

Pool, William Franklin<sup>A</sup>  
 Powers, Marie Kraft  
 Price, Dessie Hall

Spear, Mildred Cushing<sup>D</sup>  
 Stixrud, Thora Louise<sup>A</sup>  
 Swift, Helen Cooper

Rasmussen, George Vincent<sup>A</sup>  
 Reeves, Joseph Austin<sup>A</sup>  
 Rice, Margaret D.<sup>A</sup>  
 Roemer, Albert John<sup>A</sup>  
 Rudolph, Evangeline<sup>M</sup>

Taylor, Henrietta Elizabeth<sup>A</sup>  
 Turner, Laura Anna<sup>M</sup>

Van Duzee, Jeannette Elizabeth<sup>A</sup>  
 Vining, Genevieve Virginia<sup>M</sup>

Settem, Clara Olive<sup>M</sup>  
 Schrock, Doris Nevin  
 Scott, Lydia Louise  
 Shafer, Lloyd N.<sup>A</sup>  
 Sharp, Mary Corts  
 Shipley, Ethelyn  
 Sloan, Besse Andrews<sup>A</sup>  
 Smith, Herndon<sup>D</sup>

Wagner, Florence Minerva<sup>A</sup>  
 Wakefield, Carol<sup>A</sup>  
 Watson, Ruth Elizabeth<sup>A</sup>  
 Watt, Elsie  
 White, Marie<sup>A</sup>  
 Whitney, Frank Fleming<sup>A</sup>  
 Wilson, Paul E.<sup>M</sup>  
 Wohlrabe, Raymond Adolph

#### HONOR GRADUATE IN THE LAW SCHOOL

Anthony Savage

This award is made upon the basis of the best record for scholarship and personality made by any member of the present graduating class during the three years of law and his name is inscribed upon the plaque presented by the honorary law fraternity of Phi Alpha Delta.

## UNDERGRADUATE SCHOLARSHIP HONORS

## FIRST JUNIOR HONORS

Ackley, Elene (L.A.)	Mahone, Mrs. Lena Louise (L.A.)
Anderson, Edith Lillian (L.A.)	Mallett, John (Engr.)
Anderson, Louise May (L.A.)	Miller, Eloise Sarah (L.A.)
Becket, Eleanor May (L.A.)	Miller, Vivian (L.A.)
Beek, John Jr. (Sci.)	Oliver, Egbert S. (L.A.)
Black, Dorothy (L.A.)	Ottenheimer, Albert Martin (L.A.)
Boyer, John F. (L.A.)	Pearson, Mabel Didricksen (L.A.)
Brewer, Vincent Robert (Edu.)	Penington, Ruth Esther (F.A.)
Corey, Mrs. Elva Florence (B.A.)	Perring, Norman C. (L.A.)
Crosby, Roy Henry (Engr.)	Salter, Esther Eileen (Sci.)
Cutler, Bernice Acors (F.A.)	Schaefer, Oscar (B.A.)
Evans, Clementine Claire (Pharm.)	Sensenig, Kathryn Viola (F.A.)
Henriot, Jane (L.A.)	Smith, A. Louise (L.A.)
Hitchings, George H. (Sci.)	Thomson, Margaret (L.A.)
Kelley, Warren Thomas (Engr.)	Thraillkill, William L. (Engr.)
Konzo, Seichi (Engr.)	Townsend, Florence Elizabeth (Educ.)
Karrer, Lawrence (Engr.)	Ude, W. W. (L.A.)
Leitner, Leopold (Engr.)	Ulbrickson, Alvin (B.A.)
McLaren, Marian Esther (L.A.)	Yoshioka, Fusaka (B.A.)
	Zillman, Lawrence John (L.A.)

## SECOND JUNIOR HONORS

Abel, George (Law)	Hayward, William S. (B.A.)
Adams, Susanna Catherine (F.A.)	Kennedy, Mary Elizabeth (L.A.)
Allen, Capitola Penches (L.A.)	Kimball, Stanley Gentis (Educ.)
Armann, Edith (L.A.)	Kinzel, Maurice William (Law)
Bale, Genevieve Georgiana (Educ.)	Lensrud, Mabel English (L.A.)
Ballaine, Wesley (L.A.)	Logan, Lorna (Jour.)
Bartlett, Louise Isabel (L.A.)	McDonald, John H. (For.)
Bentley, Galen Willard (F.A.)	McDonough, Ellen Beaudette (L.A.)
Blake, Maxine Urairie (L.A.)	Manning, Robert Sedwick (B.A.)
Bradshaw, Grace Elizabeth (Sci.)	Miley, John Donnell (Engr.)
Brown, Mrs. Lucy Sanner (L.A.)	Monteski, Gertrude V. (L.A.)
Carlson, Floyd E. (For.)	Newberry, Mrs. Amelia E. (L.A.)
Carver, Marian Esther (B.A.)	Nichols, Amelie Katherine (L.A.)
Chan, George L. (B.A.)	Pearson, Anna Katherine (Educ.)
Chapple, Guernsey P. (Engr.)	Peters, Evan (L.A.)
Crawford, Roberta Margaret (F.A.)	Phelps, Saralette (L.A.)
Daniels, Albert F. (B.A.)	Ross, Frank L. Jr., (B.A.)
Dickinson, Dorothy J. (L.A.)	Smith, Charlotte B. (L.A.)
Didzun, Oscar J. (L.A.)	Stager, Helen Elizabeth (L.A.)
Drew, Claire Cecelia (Jour.)	Swart, Gilbert (Engr.)
Du Bois, Frances G. (F.A.)	Townsend, Paul Allerton (L.A.)
Duff, Edmund Egbert (Engr.)	Travis, Virginia (L.A.)
Erickson, Phil K. (L.A.)	U'Renn, Dorothy (L.A.)
Ford, Tirey Foster (Engr.)	Van Horn, Margaret (L.A.)
Forrest, Jack (L.A.)	Wetherell, Ernest (L.A.)
Giuntoni, Julius Di Grazia (L.A.)	Whittle, William B. (L.A.)

## FIRST SOPHOMORE HONORS

Adams, Sidney Mark (Sci.)	Brown, Edward Gordon (L.A.)
Asp, Nogi (Engr.)	Campbell, Katherine P. (F.A.)
Bolster, William (Engr.)	Cluck, Jack Raymond (L.A.)
Botsford, J. Lawrence (L.A.)	Cornils, Thomas (Engr.)
Boyer, Marietta Ruth (Sci.)	Cruttenden, Viola (F.A.)
Bradley, Arvid M. (L.A.)	DeFreest, Grace H. (L.A.)

DeWitt, Ruth Evelyn (F.A.)	Newell, Richard L. (Engr.)
Dix, Florence (Sci.)	Newman, Ruth Levens (Sci.)
Edwards, William W. (L.A.)	Oliver, Marguerite J. (L.A.)
Falk, David Richard (B.A.)	Olson, Nels Kermit Hubert (Engr.)
Forbes, Evelyn Gertrude (Sci.)	Ouren, Frederica (Sci.)
Freund, Julia (L.A.)	Patzer, Sidney (L.A.)
Gates, Alice Elizabeth (L.A.)	Potter, Ruth Antoinette (Sci.)
Hoff, Ebbe Curtis (Sci.)	Ryan, Frank William (L.A.)
Hoff, Hebbel Edward (Sci.)	Schimpke, Harold (Sci.)
Johns, Loeta Lois (L.A.)	Skinner, Selby M. (Sci.)
Kassebaum, Karl F. (L.A.)	Snoke, Albert Waldo (Sci.)
Keith, Elva Ina (L.A.)	Standard, Olive Gertrude (L.A.)
Kyle, James H. (L.A.)	Stanley, Dook C. (L.A.)
Lansdown, Lois (F.A.)	Smith, Katherine Macrae (L.A.)
Loners, Harry (F.A.)	Swan, Clarice (L.A.)
Louis, Victoria F. (L.A.)	Taylor, Kyle Elden (F.A.)
Lundquist, Ellen Mae (Pharm.)	Thomas, Bertram D. (Sci.)
McCartney, Francine (L.A.)	Thorton, Marion Janet (L.A.)
March, Martha Jane (L.A.)	Warren, William Grant (L.A.)
Morgan, Helen Ethel (L.A.)	Wicker, Jessie (L.A.)
Morry, Lucile K. (L.A.)	Williams, Blanche Halym (L.A.)

## SECOND SOPHOMORE HONORS

Alexander, Phyllis (F.A.)	Hill, Way Woody (F.A.)
Allen, Anne Bayless (L.A.)	Iverson, Lyle Louis (L.A.)
Bailey, Florence Miriam (Sci.)	Jansen, Phyllis L. (L.A.)
Bell, Hazel Lamar (L.A.)	Jennings, Elizabeth (L.A.)
Blumenthal, Julius (B.A.)	Jensen, Henrietta Marie (B.A.)
Bock, Russell Samuel (B.A.)	Johns, Harold Nash (L.A.)
Bohlander, Theodore Louis (B.A.)	Johnson, Edward E. (L.A.)
Brownell, Ruth (L.A.)	Johnson, Elizabeth H. (F.A.)
Burns, Henry H. (L.A.)	Johnson, Eloise Ruth (L.A.)
Cartano, Margaret C. (L.A.)	Johnson, Ray Lloyd (L.A.)
Cavender, Fern (B.A.)	Kavanaugh, Clarence E. (F.A.)
Cavender, Phyllis (L.A.)	Kenyon, Juanita (Sci.)
Chandler, Marjorie (F.A.)	Kimura, Tadao (L.A.)
Clark, Benjamin Inglis (B.A.)	Krause, August L. (Engr.)
Corner, Juanita Helen (L.A.)	Kroetch, Gertrude C. (F.A.)
Craven, Eleanor A. (L.A.)	Kurth, Edith A. (L.A.)
De Gaberiele, Eugene Marius (L.A.)	Leonard, Gordon O. (B.A.)
Dodson, James M. (B.A.)	McArthur, Josephine Eleanor (L.A.)
Droescher, Minnie M. (Phar.)	McElroy, Richard H. (Engr.)
Engler, James G. (L.A.)	McKay, Elizabeth M. (Sci.)
Eide, Gudrun Cecelia (L.A.)	Mickelwait, Lowell P. (B.A.)
Fickel, Ruth Elizabeth (Sci.)	Mills, Orville H. (L.A.)
Fisher, Kenneth R. (L.A.)	Minuth, Esther Anna (L.A.)
Flatebo, Helga (F.A.)	Montfort, Mary Leslie, (Sci.)
Fricke, Edward Frederick (B.A.)	Olsen, Albert (L.A.)
Froula, Dave (Engr.)	Ostrom, Theodore E. (B.A.)
Garbe, Frank Arthur (L.A.)	Park, J. Howard (Engr.)
Garrison, Homer Ducat (Engr.)	Paynton, Charles S. (L.A.)
Hadsell, Robert Lee (B.A.)	Pearson, Mabel Valentyn (F.A.)
Hall, Margaret Olive (L.A.)	Peterson, William Clarence (B.A.)
Hayes, Leroy E. (B.A.)	Potter, Helen Agnes (L.A.)
Herrold, Betsey Ann (Fish)	Proffitt, Lehman Maurice (B.A.)
Hesseldenz, Dorothy F. (L.A.)	Robison, John Holt (Sci.)



Rose, Julia Florence (L.A.)	Stafford, Elizabeth (L.A.)
Rosted, Daniel Post (For.)	Stokes, Margaret Ruth (L.A.)
Sears, Edith Katherine (L.A.)	Stone, Bessie Hazel (L.A.)
Severin, Roy T. (B.A.)	Wang, Laura Katherine (L.A.)
Sidell, Irving Isadore (B.A.)	Wight, Douglas Thomas (F.A.)

## FRESHMAN HONORS

Albrecht, Herta Magdalene (B.A.)	Freed, Joseph Edward (B.A.)
Andrus, Eleanor Ruth (L.A.)	Furey, Frances Claire (L.A.)
Angus, Dulcie Alberta (L.A.)	Gaunce, Harold Wm. (Engr.)
Austin, Gertrude Evangeline (L.A.)	Gehring, Par Jerome (B.A.)
Baird, Harriet Warner (L.A.)	Ghiglione, Maybelle Maria (L.A.)
Baker, Virginia Castara (F.A.)	Gideon, Edith Margaret (Sci.)
Banton, Mary Elizabeth (Sci.)	Gilmerf, Mary Gertrude T. (L.A.)
Barbour, Dana Mills (L.A.)	Gordon, Clara Virginia (L.A.)
Barnett, Kelso Clarke (L.A.)	Gorham, Elaine Standish (L.A.)
Bass, Ernest (B.A.)	Gould, Marie Louise (L.A.)
Beam, Rene Avis (L.A.)	Gow, Paul Loudon (Sci.)
Becker, George Joseph Jr. (L.A.)	Grant, Anne Emily (L.A.)
Beeson, Paul Bruce (Sci.)	Grigg, Norval William (Engr.)
Beldon, Lois Eileen (L.A.)	Grunbaum, James Edward (F.A.)
Berge, Ansgar Randolph (Sci.)	Grunbaum, Jane Vera (L.A.)
Bergstrom, Charlotte M. (Sci.)	Gulick, Margaret (L.A.)
Bistrom, Frank Vernon (Engr.)	Harby, Sam Farkas (L.A.)
Bogle, Betty (F.A.)	Haring, Robert Clinton (Engr.)
Bonner, Robert U. (Sci.)	Hatch, Corrinne Standish (L.A.)
Bowman, Dale Clarence (L.A.)	Hicks, John Frederick Gross (Sci.)
Brandner, Henry Philip (For.)	Higuchi, Takashi (F.A.)
Brick, Hilah Raymond (L.A.)	Hinckley, Martha Ann (F.A.)
Brogren, Stanley Carl (F.A.)	Hitchman, Robert Bruce, L.A.)
Brown, Pauline (L.A.)	Hornberg, Charles Victor (Engr.)
Brown, Winston Derby (L.A.)	Howe, Doris Blossom (L.A.)
Browne, Grace Mary (B.A.)	Jackson, Inez Elizabeth (F.A.)
Butler, Dorothy Glorian (F.A.)	Jones, Elizabeth M. (F.A.)
Butt, Donald Ritchie (L.A.)	Karr, Day Payne (L.A.)
Campbell, Allen Donald (Pharm.)	Kashawagi, Shungi G. (Pharm.)
Campbell, Robert David (L.A.)	Kelez, George Bothell (L.A.)
Clay, Marjorie (F.A.)	Kelez, Ivan Marion (F.A.)
Collier, Kathleen Dorothy (L.A.)	Kelly, Edgar Andrew (Pharm.)
Condon, Robert Wilkins (For.)	Ketcham, Dorothy (L.A.)
Cooney, Juanita Mae (B.A.)	Kiely, John Roche (Engr.)
Corbett, Helen Alberta (L.A.)	Langsdorf, Gaynor H. (Engr.)
Coughlin, Margaret Mary (L.A.)	Lasater, Martha Jane (L.A.)
Currie, Eula Marie (L.A.)	Lawless, Ruth Ella (Sci.)
Dahlen, Beth May (L.A.)	Layton, Clarence Elmer (L.A.)
Davis, Lily May (F.A.)	Leedy, Virginia (B.A.)
Deering, Harold (B.A.)	Libert, Norman Francis (Pharm.)
de Ville, Pierre J. E. (L.A.)	McKenney, Margaret (L.A.)
Dexter, Glenn Edward (L.A.)	McLeod, Sarah Hammond (L.A.)
Dowler, Dorothy Virginia (L.A.)	Major, Sidney Walter (L.A.)
Duff, Marion Louise (Sci.)	Marple, Elliot (L.A.)
Dunn, Lawrence (Sci.)	Meacham, Larned Ames (Engr.)
Edlatz, Danica Lucille (F.A.)	Meany, Edmond Stephen Jr. (L.A.)
Engel, Ernest Dirck (Engr.)	Miller, Ellen Ann (L.A.)
Fernandez, Joseph (Pharm.)	Miller, Helen Grace (F.A.)
Fitch, Susan Hovey (L.A.)	Miller, Henry Augustus (B.A.)
Flanagan, George Clemens (For.)	

Miller, Hortense Hickman (Sci.)	Schoegg, Carl (B.A.)
Miller, Nancy Ann (L.A.)	Searls, Helen Elizabeth (L.A.)
Miller, Paul Warren (B.A.)	Slipper, Lorna Elizabeth (L.A.)
Mills, Eileen Elizabeth (L.A.)	Smith, Iris Marie (L.A.)
Mills, Catherine Spellman (L.A.)	Smith, Lenore Christine (Sci.)
Miyayagi, Atsushi Wendell (Engr.)	Smith, Shirley Margaret (F.A.)
Newell, Ralph Archibald (Sci.)	Snyder, Helen Verna (L.A.)
Newton, Enid Eunice (L.A.)	Stangeland, Helen Jane (L.A.)
Nicholson, Catherine J. (F.A.)	Starr, Jessie Helen (F.A.)
Ott, Anna Veronica (Sci.)	Strohl, Wellington M. (Engr.)
Padley, Willine Juliana (L.A.)	Strother, Charles Reddell (L.A.)
Palmroth, William George (For.)	Suffel, Wm. Ewart G. (L.A.)
Partridge, Edith Mae (L.A.)	Sutherland, Anette Ora F. (Sci.)
Payzant, Marion Alice (L.A.)	Tadlock, Ruth Violet (L.A.)
Pearsall, Mary Elizabeth (L.A.)	Taylor, Kathryn (L.A.)
Penick, Norman Justin (For.)	Toyota, Norio (L.A.)
Perks, Mary Alice (L.A.)	Truscott, Mrs. Lois Calvin (L.A.)
Peterson, Claire Anabel (F.A.)	VanderWerker, Edith (Sci.)
Plum, Lester Virgil (L.A.)	Waldron, Frank Xavier, Jr. (L.A.)
Rabel, Irvine B. (F.A.)	Walker, David John (L.A.)
Ramsay, Guy Reed (For.)	Westberg, Frederick H. (L.A.)
Renshaw, Edith Isabel (L.A.)	Weatherford, Marybelle (F.A.)
Rhodes, Helen Harvey (L.A.)	Wetherell, Russell (L.A.)
Richards, Marietta (L.A.)	White, Ronald Cedrick (B.A.)
Riseland, Alice E. (B.A.)	White, Wallace Wm. (Engr.)
Roberts, Roe P. (Engr.)	Wiley, Alice Mattie (L.A.)
Rosenbaum, Nathan J. (B.A.)	Williams, Randall S. (L.A.)
Rowntree, Grace (Sci.)	Williams, Ward De Witt (L.A.)
Russell, Betty (F.A.)	Willigar, Florence Mertie (Sci.)
Ryan, Vera Kathleen (B.A.)	Wirth, Henry Edgar (Sci.)
Sampson, Evelyn Mae (L.A.)	Woolpert, Dorothea Dorcas (L.A.)
Saxton, Ralph Cole, Jr. (L.A.)	Yoshioka, Hideo (Engr.)

## COMMISSIONS IN THE OFFICERS' RESERVE CORPS, UNITED STATES ARMY

## SECOND LIEUTENANT, INFANTRY

Evert Frank Arnold	Robert Thomas McNamara
Ronald Kenneth Brewer	Emery Frederick Peabody
Myron Madison Campbell	Erwin Ormand Rieger
Gustav Harras	Harry Joseph Wheaton
Charles Costello Mann, Jr.	Robert Leslie Williamson
David J. McFadden	

## SECOND LIEUTENANT, COAST ARTILLERY

Dugald MacDougall Carr	Raymond Clarence Lehde
Harry Otis Compton	Clarence Moffitt Murray, Jr.
Harry Hull Harris	Fred Harold Rhodes, Jr.
Glen Ellis Hofto	William Adam Wallace
Charles Howard Hutchison	Charles Frank Weil
Melvin Ernest Johnson	

## SECOND LIEUTENANT, AIR SERVICE

Harold Roswell Brown	Herbert Axel Landeen
Oscar Frederick Carlson	Lloyd Larsen
Paul August Jaccard	Albert Elliott Merrill
Horace L. Jennerson	

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

JUNE 14, 1926

†THE LORETTA DENNY FELLOWSHIPS

†THE ARTHUR A. DENNY FELLOWSHIPS

†FELLOWSHIPS IN THE COLLEGE OF MINES AND THE NORTHWEST EXPERIMENT  
STATION UNITED STATES BUREAU OF MINES

†THE DUPONT FELLOWSHIP

†THE EFFIE I. RAITT RESEARCH FELLOWSHIP IN NUTRITION  
COLUMBIA UNIVERSITY FELLOWSHIP IN MINING ENGINEERING AND CHEMISTRY  
Not awarded

THE SAMUEL ROSENBERG SCHOLARSHIP IN FRENCH  
Not yet awarded

THE ISABELLA AUSTIN MEMORIAL SCHOLARSHIP  
Gudrun Eide

THE GAMMA PHI BETA SCHOLARSHIP  
Ethel Ayers

THE FREDERICK AND NELSON SCHOLARSHIPS  
Harry Overholt Tinstman      Lillian Pauline Stephens  
Alternates  
John D. Cartano      Dorothy Fay Miller

THE BETA GAMMA SIGMA SCHOLARSHIP  
Vernon Mund

THE CLIMAX LOCOMOTIVE SCHOLARSHIP IN FORESTRY  
Charles H. Forward

THE VENINO SCHOLARSHIP IN MUSIC  
Mary Dawson

THE MU PHI EPSILON SCHOLARSHIPS IN MUSIC  
Catherine Hunt      Marjorie Chandler

THE BERCHER KIEFER MEMORIAL SCHOLARSHIP IN MUSIC  
Samuel Couch

THE LADIES' MUSICAL CLUB SCHOLARSHIP  
Mildred McManus (1925)  
Miriam Terry (1926)

THE PAUL KARSHNER MEMORIAL SCHOLARSHIPS  
William Thedford      Grace Hunt

PUYALLUP UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP  
Thyra Brown

CLALLAM COUNTY UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP  
Mildred Burton

THE JUDGE ALFRED BATTLE PRIZE IN PUBLIC SPEAKING AND DEBATE  
Angelo Pelligrini      William Larkin

THE E. F. BLAINE PRIZE IN ORATORY  
Awarded to the University of Oregon

## University of Washington

## THE FRATERNAL ORDER OF EAGLES PRIZE

**Lawrence Seltzer**

**Alex Kaplan**

## THE CARKEEK PRIZE IN LAW

**Not yet awarded**

## THE CARSTENS AND EARLES ESSAY PRIZES IN BUSINESS ADMINISTRATION

**John Blum**

Barclay J. Sickler

## Douglas Whitcomb

## THE CHARLES H. BEBB PRIZES IN ARCHITECTURE

**Walter Charles Wurdeman**

Richard J. Pearce

**John Villisvik**

**THE GLADDING-BEAN TERRA COTTA COMPANY PRIZES**

(Formerly The Northern Clay Company)

T. T. Matsumoto (1925)

### Frank Nagomine (1925)

Senchi Washizuka (1925)

### Paul Thiry (1926)

## Harry Loners (1926)

John Villisvik (1926)

## THE TAU SIGMA DELTA PRIZE IN ARCHITECTURE

Walter Charles Wurdeman

## THE CHARLES LATHROP PACK FOUNDATION PRIZE IN FORESTRY

Gordon W. Allen

## THE OMICRON NU PRIZE IN HOME ECONOMICS

**Christine Jessen**

**THE LEHN AND FINK GOLD MEDAL FOR PHARMACEUTICAL ESSAY**

**Marion G. Brimston**

THE AMERICAN PHARMACEUTICAL ASSOCIATION GOLD MEDAL FOR  
EXCELLENCE IN PHARMACY

## Clementine Evans

**THE AMERICAN INSTITUTE OF ARCHITECTS MEDAL FOR DISTINCTION IN DESIGN**

Walter Charles Wurdeman

## THE LINTON MEMORIAL AWARD

## Louis Fischer

## THE JUNIOR MILITARY PRIZE

## Edwin Warner Chopson

## PRIZES NOT AWARDED

## THE JUDGE KENNETH MACKINTOSH PRIZE IN DEBATE

**THE PHILO SHERMAN BENNETT ESSAY PRIZE IN POLITICAL SCIENCE**

## THE JAGGARD PRIZE IN LAW

### THE BURKE CHINA CLUB PRIZE

**THE JUDGE THOMAS BURKE PRIZES FOR EXCELLENCE IN FRENCH**

**THE N. PAOLELA GOLD MEDAL FOR EXCELLENCE IN ITALIAN**

### THE A. MERLINO PRIZE

# REGISTER OF STUDENTS—1926-1927

Aagaard, Helen, LA.....	Seattle	Allen, Doris, Bus.....	Seattle
Aalbu, Dorothy, LA.....	Everett	Allen, Edithanne, LA.....	Seattle
Abbett, Isabel, LA.....	Seattle	Allen, Edith Helen, LA.....	Seattle
Abbott, Newton Carl, Grad.....	Carnation	Allen, Erma M, FA.....	Seattle
Abeggien, Homer N, Law.....	Albia, Iowa	Allen, Flora Sofie, FA.....	Seattle
Abel, Albert, Phar.....	Seattle	Allen, Frances, FA.....	Tacoma
Abel, Dorothy L, LA.....	Montesano	Allen, Glen V, LA.....	Winthrop
Abel, George F, Law.....	Montesano	Allen, Glenn B, Bus.....	Highwood, Mont
Abel, Marian, LA.....	Aberdeen	Allen, Gordon C, For.....	Seattle
Abel, Ruth, LA.....	Montesano	Allen, Guerdon S, LA.....	Seattle
Abel, Sicely Ruth, LA.....	Montesano	Allen, Harvey S, Sci.....	Spokane
Abel, W C, For.....	Montesano	Allen, John B, LA.....	Seattle
Abella, Roman V, Engr.....	Philippines	Allen, Josephine, Sci.....	Seattle
Abella, Sebastian, LA.....	Philippines	Allen, Kathryn, LA.....	Seattle
Aber, James F, Edu.....	Seattle	Allen, Lorna J, FA.....	Aberdeen
Abernathy, William L, Bus.....	Index	Allen, Margaret Jean, LA.....	Seattle
Ablan, Federico B, LA.....	Philippines	Allen, May Belle, LA.....	Portland, Ore
Abogadlee, Maria A, Phar.....	Philippines	Allen, Merritt, LA.....	Toppenish
Abrams, Evelyn, Sci.....	Seattle	Allen, Maxine, Edu.....	Seattle
Abrams, Madeleine, LA.....	Seattle	Allen, Olmsted T, LA.....	Portland, Ore
Abry, Joseph E, Bus.....	Seattle	Allen, Richard, LA.....	Seattle
Abst, Dorothea B, Grad.....	Seattle	Allen, Russell S, Bus.....	Milltown
Acena, Casimiro, LA.....	Philippines	Allen, Stanley, LA.....	Seattle
Acena, Mena A, Engr.....	Philippines	Allen, Wendell, Sci.....	Seattle
Ackley, Elene, LA.....	Tacoma	Allen, William H, Engr.....	Seattle
Ackley, W Lee, FA.....	Vancouver	Allen, William O, FA.....	Seattle
Adair, Chester C, Engr.....	Seattle	Allison, Dorothy F, LA.....	Goldendale
Adair, Helen, LA.....	Seattle	Allison, Elton R, Sci.....	Centralia
Adami, Dorothy, LA.....	Wallace, Idaho	Allison, Marshall, Engr.....	Walla Walla
Adams, Allison M, LA.....	Nome, Alaska	Allison, William N, Engr.....	Seattle
Adams, S Catherine, FA.....	Arlington	Almquist, C G, Grad.....	Everett
Adams, Clyde B, Sci.....	Richmond Beach	Almquist, Eddie E, LA.....	Seattle
Adams, Elbertine, LA.....	Kelso	Almquist, Eugene A, FA.....	Spokane
Adams, J Gordon, Sci.....	Shelton	Alston, John F, LA.....	Everett
Adams, Joseph, LA.....	Seattle	Altergatt, Alex, Jr, LA.....	Seattle
Adams, Lola D, Bus.....	Oak Harbor	Altick, Grace M, FA.....	Seattle
Adams, Lucile L, LA.....	Nome, Alaska	Altosec, Ann, FA.....	Bellingham
Adams, Phil, For.....	Vashon Island	Alutin, Alexander N, For.....	Russia
Adams, Rosamond, Grad.....	Yakima	Amalleff, S, Grad.....	Seattle
Adams, Ruth Marjorie, Edu.....	Cheney	Ames, Anita, LA.....	Seattle
Adams, Sidney, Sci.....	Peshastin	Ames, Marshall B, Min.....	Selah
Adams, Terrel B, LA.....	China	Ames, Ralph W, LA.....	Seattle
Adjutant, Dorothy G, Bus.....	Seattle	Amsberry, Ralph, LA.....	Anacortes
Africh, Marye, LA.....	Douglas, Alaska	Amundsen, E M, LA.....	Long Beach, Calif
Agbayani, Pedro B, LA.....	Philippines	Andresen, Margret, LA.....	Port Angeles
Aguinaldo, Fred R, Min.....	Philippines	Ancheta, Andres, Sci.....	Philippines
Aguinaldo, Roman L, FA.....	Philippines	Andersen, Agnes, FA.....	Bellingham
Ahnquist, O G H, Grad.....	Everett	Andersen, Ruth M, LA.....	Seattle
Ahrens, Ludwig, Engr.....	Seattle	Andersgaard, Amber G, Sci.Comstock, Minn	
Ailshie, William K, LA.....	Seattle	Anderson, Alf G, Engr.....	Everett
Ainscough, Joseph C, Bus.....	Seattle	Anderson, Alice E, Sci.....	Seattle
Altchison, Helen, LA.....	Spokane	Anderson, Allen, Engr.....	Seattle
Altken, Hugh, LA.....	Centralia	Anderson, Andrew L, Sci.....	Hoquiam
Altken, James A, Grad.....	Vancouver	Anderson, Anton L, Law.....	Creston
Ajax, Marjorie, Phar.....	Seattle	Anderson, Bernard A, For...Dassel, Minn	
Akey, Kenneth K, Engr.....	Seattle	Anderson, Carl G, Bus.....	Seattle
Akishin, Alex, Engr.....	China	Anderson, Carletta, Sci.....	Seattle
Alberto, Alfredo A, Engr.....	Philippines	Anderson, Clarence E, Bus.....	Manzanita
Albi, Eleanor, FA.....	Spokane	Anderson, David, FA.....	Seattle
Albin, Robert, LA.....	Seattle	Anderson, Dean, Bus.....	Seattle
Albrecht, Herta M, Bus.....	Seattle	Anderson, C Ermont, LA.....	LaCenter
Alcabedas, Buenaventura U, LA.Philippines		Anderson, Esculene, LA.....	Seattle
Alderson, Thomas M, Fsh.....	Seattle	Anderson, Edith L, LA.....	Spokane
Aldrich, Berta, LA.....	Everett	Anderson, Edward C, Engr.....	Bellingham
Aldrich, Ione, LA.....	Everett	Anderson, Edwin L, Bus.....	Chinook
Aldridge, Edwin R, Bus.....	Seattle	Anderson, Eleanor L, FA.....	Seattle
Alexander, Lavenia, LA.....	Edmonds	Anderson, Eleanor, FA.....	Seattle
Alexander, Paul, LA.....	Sedro-Woolley	Anderson, Eleanor Sue, LA.....	Seattle
Alexeff, A, Engr.....	Seattle	Anderson, Elizabeth M, LA.....	Seattle
Algier, Orville K, LA.....	Skykomish	Anderson, Enoch A, Engr.....	Seattle
Alhadeff, Chas David, Fsh.....	Seattle	Anderson, Eric A, For.....	Dassel, Minn
Ali, Ashraf, Engr.....	India	Anderson, Esculene, LA.....	Seattle
Alkema, Herman, Bus.....	Seattle	Anderson, C Ermont, LA.....	LaCenter
Allen, Alleen, LA.....	Seattle	Anderson, Georgia E, LA.....	Seattle
Allen, Anna Bayless, LA.....	Olympia	Anderson, J Harold, Law.....	Seattle
Allen, Anna Florence, Jour.....	Seattle	Anderson, Harold W, Law.....	Seattle
Allen, Bruce, Bus.....	Seattle	Anderson, Helen G, Grad.....	Seattle
Allen, Capitola P, LA.....	Seattle	Anderson, Helen Marie, Sci.....	Seattle
		Anderson, Hulda, LA.....	LaGrande, Ore

Anderson, Ida B, Edu.....	Oneida
Anderson, John Adolph, Grad.....	Seattle
Anderson, John A, Bus.....	Seattle
Anderson, John E, Sci.....	Harrington
Anderson, John Herbert, Engr.....	Tacoma
Anderson, Katherine E, LA.....	Portland, Ore
Anderson, Kenneth, Bus.....	Honolulu, TH
Anderson, Kenneth R, Engr.....	Sultan
Anderson, Lary, LA.....	Seattle
Anderson, Leo, For.....	Curlew
Anderson, Leota, Grad.....	Seattle
Anderson, Logan, Bus.....	Edmonds
Anderson, Louise M, LA.....	Tacoma
Anderson, Lucilee, Sci.....	Seattle
Anderson, Margaret, FA.....	Seattle
Anderson, Margaret E, LA.....	Portland, Ore
Anderson, Robert C, LA.....	Honolulu, TH
Anderson, Ruth L, FA.....	Seattle
Anderson, Stephen E, Bus.....	Seattle
Anderson, Thayne, Bus.....	Everett
Anderson, Theodore R, Engr.....	Creston
Anderson, Theresa E, LA.....	Kent
Anderson, Virgil V, LA.....	Seattle
Andonian, Mhuran P, Bus.....	Olympia
Andre, Floyd C, For.....	Tacoma
Andresen, Margaret, LA.....	Port Angeles
Andreev, Nicholas N, Fsh.....	Seattle
Andrew, Helen, LA.....	Seattle
Andrews, Charles W, Sci.....	Seattle
Andrews, Clarence A, Bus.....	Seattle
Andrews, Emery, Grad.....	Linden
Andrews, Harriet, Sci.....	Seattle
Andrews, Joseph, LA.....	Echo, Ore
Andrews, Roy /G, Engr.....	Bellingham
Andrus, Eleanor, LA.....	Tacoma
Andrus, Margaret Percy, LA.....	Seattle
Anfin, Caroline, LA.....	Seattle
Anglen, Thomas H, Bus.....	Seattle
Angerhofer, Ardona, FA.....	Aberdeen, SD
Angerhofer, Erma, FA.....	Aberdeen, SD
Angst, Dorothy E, LA.....	Seattle
Angus, Dulcie, LA.....	Seattle
Ankele, Felice, Grad.....	Seattle
Annbell, Russell, LA.....	Tacoma
Annbai, Mary G, LA.....	Seattle
Anthony, Richard W, FA.....	Toppenish
Antonclch, Michael A, LA.....	Winslow
Antonova, Helen A, Min.....	Seattle
Anunciacion, Lucas, LA.....	Philippines
Appelgren, Fredrick W, Fsh.....	Seattle
Appleton, Marion B, LA.....	Seattle
Appy, Nellie, Grad.....	Walla Walla
Aquino, Juan P, Grad.....	Philippines
Aquino, Juan P, Grad.....	Piddig, PI
Aquino, Valentin R, LA.....	Philippines
Arai, Clarence T, Grad.....	Seattle
Arai, Hohel, Engr.....	Seattle
Arai, Tom F, Bus.....	Seattle
Arend, Harry C, Law.....	Spokane
Arentsen, Harold, Bus.....	Seattle
Arclaga, Moses, LA.....	Philippines
Arima, John K, Engr.....	Auburn
Armman, Edith E, Edu.....	Ritzville
Armistead, Helen L, LA.....	Seattle
Armstrong, Everett, Phar.....	Havre, Mont
Armstrong, Harriet E, Sci.....	Tacoma
Armstrong, Homer B, Bus.....	Seattle
Armstrong, Hubert C, LA.....	Seattle
Armstrong, Nelson B, LA.....	Bowmanville, Ont
Armstrong, Olive Dexter, Grad.....	Seattle
Armstrong, Roy A.....	Coupeville
Armstrong, Wm Grant, Law.....	Chehalis
Armstrong, Wm L, Bus.....	Havre, Mont
Arndt, Wm, LA.....	Portland, Ore
Arnell, Rupert E, Sci.....	Auburn
Arneson, Gladys, FA.....	Big Timber, Mont
Arneson, Gus, For.....	Puyallup
Arnett, Emery G, FA.....	Seattle
Arnold, Eugene K, LA.....	Renton
Arnold, Evert F, Law.....	Livingston, Mont
Arnold, Gladys M, Sci.....	Seattle
Arnold, Harry A, Bus.....	Seattle
Arnold, Olive M, LA.....	Seattle
Arnold, Winifred, FA.....	Portland, Ore
Arntson, Anthony W Jr, LA.....	Tacoma
Aronin, Anna, LA.....	Seattle
Asp, Nogi A, Engr.....	Seattle
Artus, George, Sci.....	Seattle
Ashby, Paul F, LA.....	Seattle
Asher, Adolf A, Bus.....	Seattle
Asher, Benjamin R, Engr.....	Portland, Ore
Asher, Katharine, LA.....	Portland, Ore
Ashford, Paul, FA.....	Raymond
Ashley, Wanda J, LA.....	Seattle
Ashraf, Ali, Engr.....	India
Ashton, Philip F, LA.....	Seattle
Ashton, Robert, Phar.....	Spokane
Ashwell, Leonard A, Bus.....	Seattle
Askren, Marie, LA.....	Olympia
Aspray, Ruth Muriel, Sci.....	Spokane
Aspray, Ruth Muriel, Grad.....	Spokane
Atkins, Charles Burwell, Sci.....	Butte, Mont
Atkins, Edith M, Sci.....	Bellingham
Atmore, Josephine, Sci.....	Santa Paula, Calif
Atwood, Helen M, Sci.....	Salem, Ore
Atwood, Milan M, Engr.....	Seattle
Aucourt, George, For.....	Seattle
Ault, Peggy, LA.....	Honolulu
Aumann, Dorothy, LA.....	Port Angeles
Aust, Emil, Bus.....	Pe Ell
Aust, Ruth, Edu.....	Spokane
Austin, Harold D, Law.....	Aberdeen
Austin, Helen, LA.....	Spokane
Austin, Katharine T, Sci.....	Fresno, Calif
Austin, Lucia C, LA.....	Spokane
Austin, Mary Catherin, LA.....	Seattle
Avery, Dorothea P, FA.....	Seattle
Avery, Edith, LA.....	Seattle
Avery, Madalyn, Grad.....	Wakefield, Kan
Avery, McIntosh Gertrude, LA.....	Seattle
Avitt, Helen V, LA.....	Seattle
Awender, Peter J, Bus.....	Lefor, ND
Axe, Erwin F, Bus.....	Seattle
Axelson, Willis, LA.....	Stanwood
Ayers, Dorothy E, Sci.....	Seattle
Ayers, Ethel Florence, LA.....	Olympia
Ayers, Mildred Claire, FA.....	Olympia
Ayres, Elida Frances, LA.....	Seattle
Ayres, Horace C, Engr.....	Seattle
Babcock, Jack, LA.....	Spokane
Babcock, Lola, Sci.....	Seattle
Bache, Hazel K, LA.....	Seattle
Bachman, Paul, Grad.....	Seattle
Backberg, Floyd H, Engr.....	Longview
Backland, John, Jr, LA.....	Seattle
Backstrom, Ruth, Sci.....	Hartford
Bacon, Cecil H, Jr, LA.....	Seattle
Bacon, Stephen C, Engr.....	Seattle
Bacorn, Harry D, Engr.....	Jardine, Mont
Badger, Harold R, Engr.....	Centralla
Badgley, Charles H, Bus.....	Seattle
Baer, Donald, LA.....	Seattle
Baer, George F, Engr.....	Everett
Baes, Engla B, Educ.....	Seattle
Bagby, Loretta, LA.....	Seattle
Bagle, Betty, FA.....	Seattle
Bahnsen, M D, Bus.....	Helena, Mont
Bailey, Arthur E, Law.....	Seattle
Bailey, Edward W, Engr.....	Seattle
Bailey, Henry E, Bus.....	Seattle
Bailey, Katharine A, LA.....	Seattle
Bailey, Raymond L, LA.....	Seattle
Bailey, Robert H, Engr.....	Seattle
Bailly, Wm E, Engr.....	Seattle
Bain, Florence D, LA.....	Seattle
Bain, David R, Bus.....	Seattle
Baird, Ellnor L, LA.....	Seattle

Baird, Harriet, LA.....	Seattle
Baisler, Edward M, LA.....	Seattle
Balsler, Perry E, LA.....	Seattle
Bakeman, Charles T, Engr.....	Snohomish
Baker, Athol, LA.....	Naches
Baker, Dorothy, LA.....	Seattle
Baker, Elizabeth L, LA.....	Seattle
Baker, Florence K, FA.....	Seattle
Baker, Harold V, Bus.....	Puyallup
Baker, Irene H, LA.....	White Salmon
Baker, Kenneth, LA.....	Olympia
Baker, Louisa, LA.....	Retail
Baker, Marion, FA.....	Seattle
Baker, Marion M, Sci.....	Seattle
Baker, Mary K, LA.....	Seattle
Baker, Paul Baird, LA.....	Seattle
Baker, Priscilla N, LA.....	Seattle
Baker, Virginia C, FA.....	Retail
Baker, William R, Grad.....	N Plymouth, Ida
Balcom, Maurice, LA.....	Grandview
Baldrey, Kirby H, Sci.....	Bellingham
Baldridge, Joe, Sci.....	Sedro-Woolley
Baldwin, W H, LA.....	Seattle
Bale, Genevieve G, Edu.....	Seattle
Ball, John K, Engr.....	Spokane
Ball, Frances Clare, LA.....	Seattle
Ballaine, Francis K, Engr.....	Seattle
Ballaine, Wesley C, LA.....	Bellingham
Ballard, Noel, Phar.....	Seattle
Balsinger, Helen, FA.....	Tone, Oregon
Banker, Earl, LA.....	Seattle
Banker, Grant B, Bus.....	Seattle
Banks, Louise, LA.....	Seattle
Banks, Newell J, Law.....	Centralia
Banks, Rebecca E, Grad.....	Kirbyville, Texas
Banks, William C, Grad.....	Yakima
Banta, Helen, LA.....	Seattle
Banton, Mary Elizabeth, Sci.....	Walville
Barber, Clarence A, Bus.....	Reardan
Barber, Helen, LA.....	Seattle
Barber, Helen Harriet, Bus.....	Seattle
Barberis, Edward, Bus.....	Seattle
Barbour, Dana M, LA.....	Seattle
Barclay, Maizie, LA.....	San Francisco, Calif
Barclay, William Lloyd, LA.....	Seattle
Bard, Burton E, Min.....	Seattle
Bard, Elliott E, Engr.....	Seattle
Barde, Muriel C, LA.....	Seattle
Bardon, Peter J, Grad.....	Seattle
Bare, Margaret, LA.....	Tacoma
Bargmeyer, Ernest G H, Sci.....	Montesano
Bargreen, Howard, Bus.....	Everett
Barker, Burke G, LA.....	Seattle
Barker, Carroll D, Sci.....	Seattle
Barker, Mrs Gertrude B, Educ.....	Bellingham
Barker, Loris T, Educ.....	Bellingham
Barker, Robert W, Engr.....	Seattle
Barkley, Dorothy, LA.....	Ellensburg
Barmon, Harold, Fsh.....	Seattle
Barnaby, J T, Fsh.....	Seattle
Barnes, Clifford, Sci.....	Goldendale
Barnett, Arthur G, LA.....	Seattle
Barnett, Grace K, FA.....	Bremerton
Barnett, Kelso C, LA.....	Seattle
Barnett, Mack F, Sci.....	Tacoma
Barnett, Margaret, LA.....	Haines, Alaska
Barnett, William, LA.....	Long Beach, Calif
Barnhart, Margaret, FA.....	Seattle
Barnhart, Harold E, Phar.....	Seattle
Barnhart, Thomas F, LA.....	Snohomish
Barnum, Robert S, Bus.....	Seattle
Barquist, William S, Min.....	Seattle
Barr, Eric L, Law.....	US Navy
Barr, Gordon, LA.....	Seattle
Barrett, Elsie R, LA.....	Burlington
Barrett, Frederick W M, LA.....	Seattle
Barracough, John H, Bus.....	Seattle
Bartell, Amy Ellyn, LA.....	Seattle
Bartell, Marthalice, LA.....	Elma
Bartells, Clifford A, Engr.....	Seattle
Barthell, Russell W, LA.....	Seattle
Bartholomew, Adrian, For.....	Everett
Bartine, Wesley B, LA.....	Seattle
Bartlett, Edward L, LA.....	Fairbanks, Alaska
Bartlett, Louise, LA.....	Seattle
Bartley, Bruce E, LA.....	Zillah
Bartley, Deane G, LA.....	Zillah
Bartley, Dorothy, Bus.....	Seattle
Bartolome, Gregorio F, Fsh.....	Philippines
Barton, Eleanor R, Bus.....	Boise, Ida
Barton, Howard E, Bus.....	Boise, Ida
Barton, Lorna D, Libr.....	Vancouver BC
Barron, Carolyn, Sci.....	Seattle
Barreau, Gordon, LA.....	Seattle
Bartley, J Leland, LA.....	Seattle
Bashor, Thurston C, Grad.....	Seattle
Basillides, Ruth, FA.....	Seattle
Basler, Veilton T, LA.....	Bremerton
Bassage, Harold, Grad.....	Seattle
Bass, Bonny, LA.....	Seattle
Bass, Ernest, Bus.....	Seattle
Bass, John M, Bus.....	Victoria, BC
Bassi, Agapito L, LA.....	Faquin, PI
Bassford, Lois E, LA.....	Seattle
Bastheim, Helen, LA.....	Seattle
Bates, Gertrude L, LA.....	Seattle
Bates, James W, Sci.....	Seattle
Bates, Majel I, LA.....	Seattle
Bates, Marjorie K, Educ.....	Corvallis, Oe
Bates, Ruth F, LA.....	Tacoma
Battelle, Charles N, Bus.....	Tacoma
Bauer, Harold G, LA.....	Seattle
Bauer, Henry M, LA.....	Uniontown
Baum, Catharine L, LA.....	Seattle
Baumann, Henry N Jr, Grad.....	Seattle
Baumgartner, Grace, Grad.....	Seattle
Baunsgard, Lee A, Engr.....	Seattle
Bautista, Felino, For.....	Philippines
Bautista, Raimundo, LA.....	Philippines
Bayles, Edith, LA.....	Seattle
Bayles, George M, Bus.....	Seattle
Bayliss, Lawrence, Engr.....	Seattle
Bayly, Esther R, LA.....	Monroe
Beach, Donald W, Sci.....	N Westminster, BC
Beakley, Leland I, Engr.....	Seattle
Beal, Maud L, LA.....	Seattle
Beall, Virginia, LA.....	Vashon
Beam, Rene A, LA.....	Pe Ell
Beamish, Earnest L, LA.....	Brooklyn NY
Bean, Kathryn C, FA.....	Wallace, Ida
Bean, Ruth Ida, Sci.....	Presque Isle, Maine
Beans, Margaret, Sci.....	Seattle
Bear, Ada L, LA.....	Seattle
Beardsley, Arthur S, Grad.....	Seattle
Beasley, J Lewis, Bus.....	Idaho Falls, Ida
Beatty, Donald T, LA.....	Wenatchee
Beatty, Vera A, Bus.....	La Grande, Oregon
Beaty, Eileen E, FA.....	Bremerton
Bent, Josephine A, FA.....	Renton
Bechant, Marion A, LA.....	East Sound
Beck, Robert E, Phar.....	Tacoma
Becker, George J, LA.....	Yakima
Beckes, Roger, LA.....	Bellingham
Becket, Walton D, FA.....	Seattle
Beckett, Eleanor May, LA.....	Seattle
Beckett, Ernest Edgar, LA.....	Seattle
Beckmann, Jewel, FA.....	Seattle
Beckstead, James, Bus.....	Carpinteria, Calif
Beckwith, Eleanor, LA.....	Seattle
Beckwith, Frances K, LA.....	Seattle
Bedal, Edith, LA.....	Darrington
Beebe, Dorothy, FA.....	Seattle
Beebe, Marion, FA.....	Seattle
Beeble, Burton L, Grad.....	Seattle
Beek, John Jr, Sci.....	Seattle
Beerman, Walter, Engr.....	Algona, Iowa
Beers, F T Jr, LA.....	DuPont
Beeson, Paul B, Sci.....	Seattle
Beuwkes, Reinier, Jr, Engr.....	Seattle
Bezer, Ross, LA.....	Seattle

Begley, Catherine E, LA.....	Seattle
Beggs, Margaret, LA.....	Portland, Ore
Belcher, Thelma B, LA.....	Seattle
Behan, James E, Bus.....	Seattle
Behnke, Alaska Y, LA.....	Seattle
Belase, Gertrude, Bus.....	Seattle
Bekins, Rondell, Bus.....	Seattle
Beldeen, Eileen, LA.....	Seattle
Belknap, Mae, Grad.....	Seattle
Bell, Hazel, LA.....	Seattle
Bell, Mabel, LA.....	Seattle
Bell, Marion B, Grad.....	Seattle
Bell, Mervyn F, LA.....	Seattle
Bell, Milo C, Engr.....	Seattle
Bell, Milton E, FA.....	Seattle
Bell, Raymond, Sci.....	Wrangell, Alaska
Bell, Richard Barry, LA.....	Seattle
Bell, Walter W, LA.....	Spokane
Bellamy, Tenny, FA.....	Seattle
Bellman, Barbara, LA.....	Seattle
Benítez, Pablo M, LA.....	San Nicholas, PI
Beltratin, Santiago, Engr.....	Philippines
Bender, Edwin B, Bus.....	Tacoma
Bendes, Wallace H, Bus.....	Seattle
Bendacz, Elizabeth, Bus.....	Roslyn
Benedict, Arthur H, Engr.....	Metchna Falls
Benedict, Charles E, Bus.....	Spokane
Benediktson, Herdis, LA.....	Toppenish
Benediktson, Nordis, LA.....	Toppenish
Beneker, Louise, LA.....	Seattle
Benham, Caroline, LA.....	Seattle
Benham, Merton R, LA.....	Seattle
Benlro, Antonio, LA.....	Philippines
Benner, Lawrence B, Bus.....	Oak Harbor
Bennest, Alfred F, Engr.....	Seattle
Bennett, James Carleton, Engr.....	Seattle
Bennett, Claude A, Engr.....	Chelan
Bennett, George, LA.....	Seattle
Bennett, Helen Alta, Sci.....	Chewelah
Bennett, James G, LA.....	Chinook
Bennett, John L, LA.....	Tacoma
Bennett, Lois E, FA.....	Seattle
Bennett, Raymond, LA.....	Seattle
Bennett, Willard B, LA.....	Bremerton
Bennett, William R, Engr.....	Seattle
Bennett, Wynona, LA.....	Nisqually
Bennington, Olga, LA.....	Sunnyside
Bensen, Harold, Bus.....	Bellingham
Benson, Thelma, Bus.....	Seattle
Benson, William P, Educ.....	Bellingham
Bentley, Ralph E, Engr.....	White Salmon
Benton, Alice, LA.....	Seattle
Benton, Dorothy, LA.....	Seattle
Benton, Hugh H, Jr, LA.....	Seattle
Benton, Marion, LA.....	Seattle
Benton, Paul F, Bus.....	Sumner
Benveniste, Isaac E, Phar.....	Seattle
Berelter, Catherine, Sci.....	Seattle
Berelter, Marvel, Grad.....	Seattle
Berenson, Milton H, LA.....	Everett
Berezovsky, Cyril, Engr.....	Moscow, Russia
Berg, Alice May, Sci.....	Seabeck
Berg, Claude, FA.....	Clinton
Berg, Wilbur E, Bus.....	Tacoma
Berge, A Randolph, Sci.....	Everett
Berge, Sigfred F, Engr.....	Everett
Berger, Lewis C, Bus.....	Seattle
Bergeron, Alys E, FA.....	Wenatchee
Bergh, Grace, Sci.....	Seattle
Bergh, Willard A, LA.....	Seattle
Bergman, Clifford B, Sci.....	Tacoma
Bergman, Harry, LA.....	Seattle
Bergstrom, Charlotte, Sci.....	Mukilteo
Berlin, Clarence A, Bus.....	Seattle
Berlin, Marie, LA.....	Kent
Berling, Marion, FA.....	Port Orchard
Bernardino, Alejandro, LA.....	Philippines
Bernhard, Carl, Engr.....	Seattle
Bernhard, Paul, Sci.....	Seattle
Berolaki, Edward, Law.....	Bellingham
Berry, Glenn, Engr.....	Seattle
Berry, Marguerite E, LA.....	Seattle
Berry, Ted F, LA.....	Seattle
Berryman, Mary E, FA.....	Seattle
Bertelson, Ernest B, BA.....	Albert Lea, Minn
Best, Norman, LA.....	Coeur d'Alene, Idaho
Betts, Herbert E, LA.....	Seattle
Betts, Kennedy, Law.....	Seattle
Beveridge, Jean M, LA.....	Hawaii
Beveridge, Theron D, Bus.....	Camas
Bibb, T W, Grad.....	Seattle
Bice, Forrest D, Sci.....	Seattle
Bickford, Donald, Grad.....	Centralia
Bicknell, Doreen A, LA.....	Honolulu, TH
Biddle, Mildred, Sci.....	Allyn
Biehner, Lillian, Sci.....	Bellingham
Bidlake, Florence H, Sci.....	Seattle
Bigelow, James W, Bus.....	Seattle
Biglow, Eugene A, Bus.....	Seattle
Biggar, Howard H, LA.....	Pasadena, Calif
Biggar, John H, Bus.....	Pasadena, Calif
Biggerstaff, John S, Grad.....	Portland, Ore
Bigley, John, Sci.....	South Prairie
Bjork, Nels W, Engr.....	Monroe
Bike, C Edwin, LA.....	Spokane
Bille, Harold, For.....	Tacoma
Billings, Earline, Bus.....	Tacoma
Bingham, Arthur M, Bus.....	Port Angeles
Bingham, Florine, Sci.....	Seattle
Binkley, Bruce, LA.....	Orchards
Binnings, Margaret, Sci.....	Seattle
Birchfield, Floyd, LA.....	Seattle
Bird, Byron M, Grad.....	Seattle
Bird, Frances E, Sci.....	Seattle
Bird, Virginia Carol, Sci.....	Wenatchee
Bird, Winifred W, Grad.....	River Falls, Wis
Birdseye, Story, LA.....	Spokane
Bishop, Doris, Sci.....	Colfax
Bishop, Dorothy L, Grad.....	Everett
Bishop, Edwin, Bus.....	Seattle
Bishop, Helen A, Sci.....	San Diego, Calif
Bishop, Jean L, Sci.....	San Diego, Calif
Bishop, Ronald W, Engr.....	Yakima
Bishop, T W, Phar.....	Kelso
Bishop, Lawrence A, LA.....	Seattle
Bissonnette, William A, LA.....	Okanogan
Bistrom, F Vernon, Engr.....	Seattle
Bitar, Edward C, Bus.....	Hogulam
Bitney, Leslie U, Bus.....	Aberdeen
Bittner, Frances I, LA.....	Seattle
Bittner, Hugh C, LA.....	Yakima
Bixby, Jane G, LA.....	Seattle
Black, Candace O, LA.....	Seattle
Black, Dorothy, LA.....	Seattle
Black, Douris Anne, LA.....	Spokane
Black, Evelyn, LA.....	Chicago, Ill
Black, Janet, Sci.....	Ellensburg
Black, Marion H, LA.....	Seattle
Black, Roswell, Bus.....	Sumner
Blackaller, Mary Louise, FA.....	Seattle
Blackenburg, Howard, Grad.....	Lowden
Blackburn, William F, Bus.....	Seattle
Blackstad, Eleanor, LA.....	Seattle
Blacklidge, Marjorie A, Sci.....	Mukilteo
Blacknell, L H, FA.....	Seattle
Blackwell, Bliss, LA.....	Seattle
Blackwood, Bert D, Bus.....	Seattle
Blackwood, Helen, LA.....	Omak
Blade, Frank J, Law.....	Seattle
Blade, Walter, Bus.....	La Conner
Blair, Dorothea M, LA.....	Seattle
Blair, Lawrence E, Engr.....	Bremerton
Blair, Lynette, LA.....	Seattle
Blair, Mary E, LA.....	Seattle
Blair, Ralph, LA.....	Spokane
Blair, Sara, FA.....	Seattle
Blake, Elizabeth, FA.....	Seattle
Blake, Maxine, LA.....	Seattle
Blakesley, Rhena E, FA.....	Anacortes
Blanchard, Fred C, Grad.....	Skagway, Alaska



Blanchard, Leonora, Phar.....	Seattle	Borgen, Bernice, LA.....	Seattle
Blanco, Simon J, Engr.....	Philippines	Borgeson, Anna E, LA.....	Spokane
Blando, Jose, LA.....	Philippines	Borgeson, Jennie O, LA.....	Spokane
Blando, Patricio, Law.....	Philippines	Borgeson, Teresa, LA.....	Spokane
Blankenhorn, John W, Bus.....	Bremerton	Borish, Ben, Phar.....	Seattle
Blatt, Eva, Bus.....	Seattle	Borrow, William H, For.....	Seattle
Bleakney, Catharine, Sci.....	Walla Walla	Borschell, Theron, Bus.....	Seattle
Bleakney, William, Grad.....	Walla Walla	Bosco, Ray A, Bus.....	Vancouver
Blethen, Clarence B, LA.....	Seattle	Bosworth, Mary W, Grad.....	Montclair, NJ
Blethen, Frank, LA.....	Seattle	Botsford, J Lawrence, LA.....	Seattle
Bliss, Grace B C, LA.....	Edmonds	Botsford, Sherwood, Engr.....	Seattle
Blomquist, Alice A, FA.....	Seattle	Bouck, Morley, Engr.....	Sedro-Woolley
Bloom, Clifford, Bus.....	Cromwell	Boudry, James, Sci.....	Seattle
Bloom, Edward F, LA.....	Spokane	Bourke, Edward, FA.....	Easton
Bloom, Mrs Elizabeth, Edu.Pendleton, Ore		Bouras, Frank D, Sci.....	Seattle
Bloom, Howard E, Engr.....	Marysville	Bourquet, Voltaire L, LA.....	Wenatchee
Bloom, William H, LA.....	Spokane	Boutelle, Virginia, Grad.....	Seattle
Bloomberg, Florence, Sci.....	Seattle	Boutyette, Donald M, LA.....	Seattle
Bloomfield, E Jervis, LA.....	Vancouver, BC	Bowen, Charles H, LA.....	Olympia
Bloomquist, Brandt, FA.....	Tacoma	Bowen, Edward V, Bus.....	Seattle
Blossom, Rosamond, LA.....	Seattle	Bowen, Joe E, Bus.....	Centralia
Bloxham, Mable G, FA.....	Seattle	Bowen, John, Engr.....	Seattle
Bloxhim, Virginia, FA.....	Seattle	Bowen, Mary E, LA.....	Bothell
Blue, A W, For.....	Seattle	Bower, Edyth M, Grad.....	Seattle
Blugerman, Leonide, Engr.....	Russia	Bower, Eleanor B, Educ.....	Chinook
Blum, Alan L, LA.....	Seattle	Bower, Robert S, Bus.....	Seattle
Blum, Mabel, Grad.....	Seattle	Bowles, Wallace D, LA.....	Portland, Ore
Blumentfeld, Irwin, LA.....	Seattle	Bowlin, Allan K, Bus.....	Olympia
Blumenthal, Julius, Bus.....	Seattle	Bowling, Alice, LA.....	Seattle
Boardman, Benton L, LA.....	Seattle	Bowling, Benjamin E, LA.....	Seattle
Bob, Arthur L, Bus.....	Liberty Lake	Bowman, Craig, For.....	Rodsville, Md
Bode, Arthur T, For.....	Fairmont, Minn	Bowman, C Dale, LA.....	Tacoma
Bode, Charles J, Bus.....	Seattle	Boyd, Catharine, Grad.....	Seattle
Bodenberg, Emmett T, Grad.....	Tacoma	Boyd, Dwain D, Bus.....	Seattle
Bodkin, Jack H, Bus.....	Seattle	Boyd, Elizabeth L, FA.....	Seattle
Boeing, Lois, LA.....	Seattle	Boyd, Helen, LA.....	Seattle
Boepple, Robert, LA.....	Wapato	Boyd, Jennette, LA.....	Seattle
Bogert, Geraldine, LA.....	Seattle	Boyd, Kenneth F, For.....	Charleston
Bogert, Madeline, LA.....	Seattle	Boyd, Margaret, LA.....	Seattle
Bogle, Betty, FA.....	Seattle	Boyd, Thomas D, Law.....	Seattle
Bogstad, Ruth E, LA.....	Eugene	Boyer, Edward A, Bus.....	Raymond
Bogue, Horace H, Jr, Bus.....	Seattle	Boyer, John F, LA.....	Seattle
Bogue, Jane, FA.....	Seattle	Boyer, Louis A, Bus.....	Butte, Mont
Bohannon, Henry B, LA.....	Seattle	Boyker, Maxine, FA.....	Kent
Bohart, Katherine, FA.....	Bozeman, Mont	Boyle, J Watson, Sci.....	Opportunity
Bohart, Ruby M, Grad.....	Seattle	Brachvogel, Richard I, Sci.....	Seattle
Bohart, Wm P, Sci.....	Bozeman, Mont	Bracken, Flavia, LA.....	Seattle
Bolander, Ted L, Bus.....	Seattle	Brackett, Cecil F, Bus.....	Yakima
Bohn, Blair D, Bus.....	Yakima	Brackett, Laurence, For.....	Seattle
Bohn, J Reamer, Bus.....	Seattle	Bradburn, George B, Phar.....	Seattle
Boldan, Veronica, LA.....	Seattle	Bradley, A. M, LA.....	Seattle
Boler, Ethel M, FA.....	Seattle	Bradley, Edward P, LA.....	Seattle
Bollen, Forrest A, Engr.....	Vancouver	Bradley, Norman A, Engr.....	Blairmore, Alta
Bollerslev, Charles, For.....	Seattle	Bradley, Roland, Bus.....	Selah
Bolinder, Alma M, LA.....	Waterson	Bradshaw, George T, LA.....	Seattle
Bolles, Thomas D, LA.....	Seattle	Bradshaw, Grace Elizabeth, Sci.....	Everett
Bollinger, John R, LA.....	Washoe, Mont	Brady, Anna Louise, LA.....	Seattle
Bolstad, Percy, LA.....	Seattle	Brady, Ben Z, Bus.....	Seattle
Bolster, William, Engr.....	Seattle	Brady, Bryant D, Law.....	Seattle
Bolton, Raymond, LA.....	Everett	Brady, C Ted, Bus.....	Seattle
Bomar, Richard J G, Sci.....	Seattle	Braford, Cnty Josephine, Grad.....	Seattle
Bona, H Milton, LA.....	Tillicum	Brainery, Edna, FA.....	Seattle
Bonamy, Douglas, For.....	Seattle	Brakel, Louise C, Sci.....	Seattle
Bonamy, Jack, FA.....	Seattle	Branch, Mabel, LA.....	Seattle
Boncutter, Albert Clair, LA.....	Kelso	Branchflower, Howard V, FA.....	Mt Vernon
Bond, Beatrice A, LA.....	Yakima	Brand, Leo J, LA.....	Seattle
Bondy, Elizabeth H, Grad.....	Seattle	Brandegge, Florence P, Sci.....	Seattle
Bonham, H Robelen, Bus.....	Palo Alto, Calif	Brandmeyer, Wilhelmina, LA.....	Seattle
Bonham, Kelsaw, Engr.....	Seattle	Brandner, H Phil, For.....	Seattle
Bonlie, Rena, LA.....	Carnation	Brandt, A H, LA.....	Wapato
Bonnar, Robert U, Sci.....	Seattle	Brandt, Evelyn, FA.....	Puyallup
Bonner, Alfred, Bus.....	Seattle	Brandt, George, Bus.....	Seattle
Booker, Thomas R, Jr, Bus.....	Seattle	Brandt, Kergan S, Engr.....	Seattle
Boole, Warren, LA.....	Seattle	Brandt, Ralph, LA.....	Seattle
Booth, F Carlton, Educ.....	Seattle	Brannan, Claude, Sci.....	Auburn
Booth, Laurence S, Jr, Law.....	Seattle	Brannon, Julia A, LA.....	Seattle
Booth, Willard A, LA.....	Kirkland	Bransford, Thomas L, LA.....	Portland, Ore
Booth, William, FA.....	Seattle	Brant, Dorothy, LA.....	Seattle
Borde, Ernest V, Phar.....	Glenwood	Bratnober, John E, Jr, LA.....	Seattle
Bordeen, T L, LA.....	Seattle	Bratt, Byron H, Bus.....	Mercer Island

Bratty, Donald T, LA.....	Wenatchee	Brown, Lois E, Grad.....	Seattle
Bratton, Robert, Grad.....	Seattle	Brown, Lucy Sanner, LA.....	Butte, Mont
Bray, Mary, LA.....	Seattle	Brown, Margaret Parkin, LA.....	Redmond
Breakey, Glenn M, Edu.....	Bellingham	Brown, Martell, Bus.....	Hoquiam
Brechlein, Louis, LA.....	Seattle	Brown, L May, FA.....	Cleveland, Ohio
Breen, J Robert, LA.....	Seattle	Brown, Mildred H, Sci.....	Seattle
Brehm, Ed Graham, Bus.....	Seattle	Brown, Myrl G, Sci.....	Lynden
Brehm, Jane Madelon, FA.....	Seattle	Brown, Nanzle, FA.....	Seattle
Brekke, Helen, LA.....	Seattle	Brown, Norman C, LA.....	Everett
Brender, Leonard, For.....	Leavenworth	Brown, Pansy, FA.....	Seattle
Brennan, Catherine G, FA.....	Seattle	Brown, Pauline, LA.....	Seattle
Brennen, G N, Bus.....	Seattle	Brown, Robert W, Jour.....	Seattle
Bresnan, Rose, LA.....	Charleston	Brown, Russell D, LA.....	Cold Creek
Brethorst, Marguerite J, Grad.....	Seattle	Brown, Sarah Elizabeth, Edu.....	Port Angeles
Brett, Arthur, Bus.....	Seattle	Brown, Stephen Lincoln, Sci.....	Seattle
Breull, Augusto, LA.....	Seattle	Brown, Violet L, Sci.....	Wallace, Ida
Brewer, R Kenneth, Bus.....	Spokane	Brown, Warren T, LA.....	Seattle
Brewer, Helen L, LA.....	Tacoma	Brown, William Henry, Jr, Engr.....	Selleck
Brewer, Vincent R, Edu.....	Seattle	Brown, William Henry, Fsh.....	Seattle
Brewitt, Everilda, LA.....	Tacoma	Brown, Winston Baker, LA.....	Cold Creek
Brice, Vernon V, LA.....	Seattle	Brown, William M, Bus.....	Hoquiam
Brick, Hilah Raymond, LA.....	Bend, Ore	Browne, Albert, Engr.....	Seattle
Bricker, C C, LA.....	Seattle	Browne, John Jay, LA.....	Wenatchee
Brickley, Wretha, LA.....	Seattle	Brownell, Eugene B, Sci.....	Seattle
Briggs, Clifford M, Engr.....	Bremerton	Brownell, Ruth, LA.....	Seattle
Brigham, Charlotte, Bus.....	Bellingham	Brownfield, Floyd K, LA.....	Chelan
Bright, Norah J, FA.....	Nampa	Browning, Kathleen, LA.....	Menlo
Brimston, Marlon G, Phar.....	Seattle	Brownston, Sheldon, Sci.....	La Grande, Ore
Brink, Betty A, LA.....	Portland, Ore	Brownston, Wesley, LA.....	La Grande, Ore
Brinker, Evelyn, LA.....	Seattle	Broyles, Earl, Bus.....	Spokane
Brislin, Wilma, Edu.....	Bellingham	Broyles, Margaret, LA.....	Seattle
Briscoe, Jacob W, Bus.....	Grangeville, Ida	Broz, Maybelle, Edu.....	Seattle
Britell, E P, Sci.....	Whitefish, Mont	Broz, William, Sci.....	Tacoma
Britton, Cathryn M, FA.....	Wilbur	Brueggeman, W C, Engr.....	Seattle
Brix, Herman, Law.....	Tacoma	Brunner, Elma, FA.....	Seattle
Brobeck, Lester F, Sci.....	Seattle	Brunner, Eugene, Bus.....	Seattle
Brobst, Robert Nelson, Bus.....	Bellevue	Brunson, Donald, FA.....	Anacortes
Brockman, Dorothy, FA.....	Seattle	Brunvold, Eda S, Sci.....	Seattle
Brockmann, Lilly M, FA.....	Richmond Beach	Brust, Shirley K, LA.....	Portland, Ore
Brodie, Horace D, LA.....	Seattle	Bryan, Collis C, Engr.....	Seattle
Brodnax, Nancy K, Grad.....	Dallas, Tex	Bryant, Jerome C, Bus.....	Seattle
Brody, Leon, LA.....	Seattle	Bryant, Preciosa, Grad.....	Seattle
Broeren, Lawrence T, Engr.....	Prescott, Ore	Bublitz, Ruth E, Bus.....	Seattle
Broetje, Arthur F, LA.....	Yakima	Bucey, Boyd K, Sci.....	Seattle
Brogren, Stanley C, FA.....	Seattle	Buchanan, Hubert, Bus.....	Seattle
Bromberg, Bernice, LA.....	Vancouver	Buchanan, Jack, Bus.....	Seattle
Bromley, Mercy G, Edu.....	Kent	Buck, H C, Bus.....	Seattle
Bronson, Donald, LA.....	Seattle	Buck, Margaret, Libr.....	Yakima
Brook, Mrs Alice L, Educ.....	Seattle	Buckley, N Evans, LA.....	Tacoma
Brooks, Ruth Anna, LA.....	Seattle	Buckley, Frank, Grad.....	Seattle
Brooks, Thelma, LA.....	Seattle	Buckworth, Winston B, Engr.....	Vancouver, BC
Brooks, William, Phar.....	Mukilteo	Bucy, Roy Thomas, Engr.....	Seattle
Brooks, Winston, Bus.....	Wapato	Budd, Richard N, Sci.....	Seattle
Broom, Edith, FA.....	Edmonds	Budden, F W, Grad.....	Seattle
Brossols, May C, Phar.....	Seattle	Buddress, Elmer, LA.....	Seattle
Brotherton, Esther, LA.....	Bozeman, Mont	Buedall, Anton, LA.....	Seattle
Brown, Alfred James, Sci.....	Seattle	Buenafe, Mariano, LA.....	Philippines
Brown, F Cecil, Sci.....	Port Townsend	Bugge, Erling, Engr.....	Seattle
Brown, Charles L, LA.....	Great Falls, Mont	Buhl, Frances H, Grad.....	Seattle
Brown, Clarence H, Phar.....	Port Angeles	Bullock, Cecil F, Grad.....	Seattle
Brown, Davenport J, Bus.....	Sumas	Bunje, Emil T, LA.....	Seattle
Brown, David T, Phar.....	Stanwood	Bulos, Estelle S, LA.....	Seattle
Brown, Dorothy M, Sci.....	Seattle	Bumgarner, Charles W, Bus.....	Davenport
Brown, Rdith L, Sci.....	Des Moines, Iowa	Bundy, Robert E, For.....	Seattle
Brown, Edward G, Bus.....	Seattle	Bungay, Clarence, LA.....	Spokane
Brown, Elliott J, Bus.....	Sumas	Bungay, Ellen Louise, LA.....	Spokane
Brown, Eugene M, Engr.....	Seattle	Bunge, Winifred M, LA.....	Seattle
Brown, Evelyn, LA.....	Seattle	Bunker, Abbott, LA.....	Seattle
Brown, Florence I, Bus.....	Spokane	Bunker, Evans C, Bus.....	Monvold, Calif
Brown, Florence L, Edu.....	Spokane	Bunker, Stanley, For.....	Seattle
Brown, George H, FA.....	Seattle	Buol, Elsie, LA.....	Seattle
Brown, Gerald G, Phar.....	Centralia	Burch, Bethene, LA.....	Spokane
Brown, Henry J, LA.....	Seattle	Burdick, Ila, LA.....	Seattle
Brown, Hine, FA.....	Seattle	Burdick, Don, Grad.....	Seattle
Brown, Jane, FA.....	Spokane	Burdick, Dorothy, LA.....	Seattle
Brown, John E, Fsh.....	Seattle	Burdick, Kenneth R H, LA.....	White Salmon
Brown, Katharine O'P, Sci.....	Bellingham	Burgar, Phyllis, Phar.....	Seattle
Brown, Kathryn Louise, LA.....	Seattle	Burgeson, Elma, FA.....	Seattle
Brown, Leslie J, LA.....	Seattle	Burgess, Inez A, LA.....	Seattle
Brown, Lloyd O, LA.....	Wenatchee	Burgess, Jennie P, Grad.....	Seattle

Burk, Clarence F, Engr., Carson City, Nev  
 Burkhardt, John L, LA.....Corry, Pa  
 Burlage, Henry M, Grad.....Seattle  
 Burlew, Everts P, Engr.....Manette  
 Burley, Edwin, Engr.....Seattle  
 Burmeister, Viola, FA.....Seattle  
 Burnett, Bert, Law.....Seattle  
 Burnett, Charles P, Law.....Seattle  
 Burnham, Ethel, FA.....Randolph, Nebr  
 Burns, Dorothy F, LA.....Seattle  
 Burns, Edward, LA.....Spokane  
 Burns, Eggert A, Law.....Point Roberts  
 Burns, Ethel, FA.....Seattle  
 Burns, Harry, LA.....Seattle  
 Burns, Hugo Conlin, LA.....Seahurst  
 Burns, Jessie, Edu.....Seattle  
 Burns, Lillian A, Bus.....Seattle  
 Burns, M W, Bus.....Seattle  
 Burns, Omar A, Grad.....Seattle  
 Burns, Robert E, LA.....Seattle  
 Burns, Robert, Bus.....Seattle  
 Burns, Ruth R, Sci.....Lynden  
 Burnside, Margaret A, LA.....Lewiston, Ida  
 Burpee, Margaret, Educ.....Wapato  
 Burr, Wallace M, Bus.....Seattle  
 Burrell, John E, Engr.....Seattle  
 Burroughs, A P, Law.....Irrington, NY  
 Burroughs, Dorothy A, Sci.....Seattle  
 Bursell, Betty M, LA.....Seattle  
 Bursett, Clemens A, Bus.....Seattle  
 Burton, Mildred L, FA.....Sequim  
 Bush, J Burchard, Sci.....Seattle  
 Busch, Vera, Edu.....Bellingham  
 Bushell, Donald, LA.....Seattle  
 Bussard, Ruth Elaine, LA.....Seattle  
 Busse, Charles W, Bus.....Seattle  
 Butkus, Constant, LA.....Centralia  
 Butler, J Arthur, Bus.....Seattle  
 Butler, Beatrice, LA.....Seattle  
 Butler, Claude F, Engr.....Tacoma  
 Butler, Dorothy, Edu.....Tacoma  
 Butler, Eileen A, LA.....Seattle  
 Butler, Gertrude, LA.....Burlington  
 Butler, Glorian, FA.....Wenatchee  
 Butler, Julia, Sci.....Buckley  
 Butler, Longino, LA.....Seattle  
 Butler, Mae, Phar.....Cashmere  
 Butler, Maurice, Bus.....Chehalis  
 Butler, Mildred, LA.....Tacoma  
 Butler, Paul G, LA.....Fall City  
 Butler, Richard S, Bus.....Seattle  
 Butler, Van B, Engr.....Seattle  
 Butler, Walter R, LA.....Everett  
 Butrick, Merritt, LA.....Tacoma  
 Butt, Charles N, Engr.....Seattle  
 Butt, Donald R, LA.....Seattle  
 Butt, Dorothy H, Sci.....Seattle  
 Butt, Richard V, Sci.....Seattle  
 Butterworth, Roy S, Bus.....Seattle  
 Byall, D Wayne, LA.....Seattle  
 Byers, Elizabeth, LA.....Seattle  
 Byers, Mary Frances, LA.....Everett  
 Byles, Elvin M, Engr.....Melbourne  
 Byrd, Harold, Bus.....Yakima  
 Byrkit, Gordon D, Grad.....Kansas City, Mo  
 Byrne, Ervin, LA.....Seattle  
 Byrne, Mary Elizabeth, LA.....Seattle  
 Byrnes, Robert E, Bus.....Kallispell, Mont

Cabatit, Irineo R, LA.....Philippines  
 Cable, Edgar I, LA.....Tacoma  
 Cadd, Harold F, LA.....Seattle  
 Cadd, Walter, LA.....Seattle  
 Cahill, Edward T, LA.....Seattle  
 Cahoon, Mabel, Grad.....Roswell, NM  
 Cain, Russell A, Grad.....Seattle  
 Cairney, Daniel, For.....Seattle  
 Calapini, Juan G, Engr.....Seattle  
 Calder, Mary E, Educ.....Seattle

Caldwell, Eleanor, LA.....Seattle  
 Caldwell, Jane Kearsley, LA.....Seattle  
 Calhoun, Charles E, Grad.....Seattle  
 Calhoun, Emma Jane, LA.....Seattle  
 Calhoun, Gerald A, LA.....Spokane  
 Calhoun, Grant C, LA.....Seattle  
 Calkins, Helen E, LA.....Kirkland  
 Calkins, Ransom B, Sci.....Seattle  
 Calkins, Virgil, Bus.....Cashmere  
 Callahan, Alice, LA.....Seattle  
 Callahan, Alene T, Sci.....Seattle  
 Callender, R Douglas, Bus.....Seattle  
 Callender, Lorraine, FA.....Seattle  
 Callin, Henry, LA.....Spokane  
 Callison, Henry S, Bus.....Seattle  
 Callow, Kathryn Hettie, FA.....Hoquiam  
 Callow, Margaret, LA.....Shelton  
 Callow, Russell S, Grad.....Seattle  
 Calvert, Frank, Engr.....Seattle  
 Calver, William, Jr, Bus.....Seattle  
 Cameron, E R, Engr.....Seattle  
 Cameron, H Cooper, Grad.....Seattle  
 Campbell, Allan D, Phar.....Monroe  
 Campbell, Arnold, FA.....Ferndale  
 Campbell, Clarence, Law.....Seattle  
 Campbell, Dorothy, LA.....Seattle  
 Campbell, Eldon, Bus.....Seattle  
 Campbell, Flora E, Grad.....Sherwood, Ore  
 Campbell, Freda, Libr.....Tacoma  
 Campbell, George F, LA.....Seattle  
 Campbell, Hurshal H, FA.....Asotin  
 Campbell, John Frank, Bus.....Asotin  
 Campbell, John J, LA.....Seattle  
 Campbell, Josephine M H, Grad.....Rolling Bay  
 Campbell, Lee, Bus.....Seattle  
 Campbell, Leon L, LA.....Seattle  
 Campbell, Lillian H, LA.....Everett  
 Campbell, Marian L, LA.....Providence, Utah  
 Campbell, Mary Grad.....Seattle  
 Campbell, Robert D, LA.....Puyallup  
 Campbell, A Traver, Engr.....Bremerton  
 Campbell, Una, LA.....Possession  
 Campbell, Walter B, LA.....Pasadena, Cal  
 Campbell, J William, LA.....Seattle  
 Campbell, W L, LA.....Davenport  
 Camperson, B H, Bus.....Seattle  
 Canaan, Carl, Bus.....Everett  
 Canedy, Roy E, Bus.....Seattle  
 Canel, Marie, LA.....Seattle  
 Canfield, Evelyn, LA.....Seattle  
 Canfield, Ruby Winand, FA.....Seattle  
 Cannon, Hayes, LA.....Butte, Mont  
 Canty, Phyllis M, FA.....Port Orchard  
 Capeloto, Simon, FA.....Seattle  
 Capitle, Vicente, For.....Alaminos, PI  
 Capen, Mary, LA.....Yelm  
 Capron, Marjorie K, LA.....Friday Harbor  
 Capron, Victor, Engr.....Friday Harbor  
 Carballo, Jose J, LA.....Philippines  
 Carberry, Lela G, LA.....Washtucna  
 Carberry, Margaret, LA.....Spokane  
 Cardiff, Edward S, Sci.....Yakima  
 Cardwell, Charles W, Bus.....Seattle  
 Cardwell, Elizabeth K, LA.....Pomeroy  
 Carew, James C, Engr.....Seattle  
 Carey, Charles R, Law.....Colville  
 Carlander, Gertrude, LA.....Seattle  
 Carithers, James, LA.....Onalaska  
 Carle, E W, LA.....Seattle  
 Carleton, Henry L, Engr.....Seattle  
 Carlson, A O, Bus.....Tacoma  
 Carlson, Carl R, LA.....Altosna  
 Carlson, Carl S, LA.....Ferndale  
 Carlson, David, Engr.....Spokane  
 Carlson, Evar F, Bus.....Bear Gulch  
 Carlson, Floyd E, For.....Mt Vernon  
 Carlson, Hedman O, For.....Seattle  
 Carlson, Helen E, FA.....Everett  
 Carlson, John J, Bus.....Seattle  
 Carlson, Mable, Edu.....Chinook

Carlson, Reuben C, Law.....	Tacoma
Carlson, Reuben J, Engr.....	Seattle
Carlson, Roy E, For.....	Seattle
Carlson, Kenneth S, Grad.....	Seattle
Carmichael, Herbert G, Bus.....	Walla Walla
Carmichael, Noel, Bus.....	Seattle
Carmichael, Thomas, Bus.....	Goston, Ore
Carnefax, Aubrey, Engr.....	Seattle
Carnine, Dorothy, Bus.....	White Salmon
Carothers, Kathryn, LA.....	Seattle
Carothers, Sam, LA.....	Tacoma
Carper, Theron P, Bus.....	Seattle
Carroll, Charles O, LA.....	Seattle
Carroll, Theodore B, FA.....	Seattle
Carroll, Thos W, Sci, San Francisco, Calif	
Carscadden, Helen M, Bus.....	Seattle
Carson, Everal B, LA.....	Vancouver
Carssow, Elsie L, Sci.....	Odessa
Carstens, Ernest, Bus.....	Seattle
Carstens, Leavitt, Engr.....	Richland
Cartano, Margaret C, LA.....	Seattle
Cartano, John D, LA.....	Seattle
Carter, Elizabeth Hope, LA.....	Seattle
Carter, Glenn E, LA.....	Sumner
Carter, W Hale, Jr, LA.....	Longview
Carter, Leo A, Engr.....	Seattle
Carter, Nura Dorothea, LA.....	Seattle
Carter, William Laurence, Bus.....	Kalama
Cartwright, Dorothy, Grad.....	Seattle
Cartwright, Edward D, Sci.....	Seattle
Cartwright, Vance, Grad.....	Seattle
Carver, Marlon, Bus.....	Florence, Mont
Case, Byron A, Engr.....	Seattle
Case, George B, LA.....	Wrangell, Alaska
Case, Georgia, LA.....	Seattle
Case, Jessie Irene, Bus.....	Magnolia Beach
Casc, Katherine M, LA.....	Seattle
Case, E Nydia J, Grad.....	Seattle
Case, Ruth Emmeline, Sci.....	Seattle
Casebeer, Edwin F, Bus.....	Cashmere
Casey, Dorothy E, Bus.....	Seattle
Casey, Helen L, FA.....	Seattle
Casey, Mildred L, Educ.....	Seattle
Cash, Chlotilde, LA.....	Spokane
Casler, Brannon, Bus.....	Seattle
Casper, Barry, LA.....	Seattle
Cass, Stephen B, LA.....	Seattle
Cassedy, Clayton J, LA.....	Seattle
Cassidy, Dorothy C, Grad.....	Seattle
Cassidy, Elizabeth, Bus.....	Seattle
Cassmore, Orin C, LA.....	Seattle
Castle, Harold, Phar.....	Centralia
Castillo, Ray, For.....	Tacoma
Castor, T Davis, Engr.....	Seattle
Cato, Stewart C, Bus.....	Everett
Catterson, C Verne, Law.....	Sutton, Nebr
Cauby, Dorothy, LA.....	Wenatchee
Caughlan, John G, LA.....	Seattle
Cavanaugh, Ellen, Bus.....	Seattle
Cavanaugh, Esmer D, Educ.....	Seattle
Cavender, Fern, Bus.....	Seattle
Cavender, Phyllis, LA.....	Seattle
Cavin, Jack, Bus.....	Tacoma
Cayton, Horace R, Bus.....	Seattle
Cederberg, Theodore, Educ.....	Bellingham
Cessman, Chas R, LA.....	Bellingham
Chaffin, Robert N, Law.....	Ketchikan, Alaska
Chain, Leo, Bus.....	Seattle
Challis, Henrietta, FA.....	Seattle
Chalogs, Philip, Sci.....	Seattle
Chamberlin, Waldo, LA.....	Seattle
Chambers, Edythe B, LA.....	Seattle
Chambers, Horace, Grad.....	Seattle
Chambers, Jess E, For.....	Gallipolis, Ohio
Chan, Frank, Engr.....	Swatow, China
Chanda, Alvin J, Engr.....	Seattle
Chandler, Berniece, FA.....	Seattle
Chandler, Elsie Mae, Bus.....	St John
Chandler, Marjorie, FA.....	Seattle
Chaney, Bessie F, Sci.....	Seattle
Chang, Hai Yun, LA.....	Shanghai, China
Chang, Hugh Pln, Grad.....	Peking, China
Chang, Lei-Chien, LA.....	China
Chang, Look, Bus.....	Canton, China
Chang, Tse-Sheng, LA.....	Hunan, China
Chapell, Byron S, Grad.....	Wichita, Kansas
Chapman, Clayton M, LA.....	Seattle
Chapman, Frank M, LA.....	Seattle
Chapman, Horace, Jr, LA.....	Seattle
Chapman, Merna Louise, Edu.....	Seattle
Chapman, Virginia, LA.....	Seattle
Chappellet, Henry, LA.....	Los Angeles, Calif
Chapple, Guernsey P, Engr.....	Yakima
Charbneau, Isabella, LA.....	Seattle
Charbneau, Phyllis, LA.....	Seattle
Charland, Ernest, LA.....	Seattle
Charleston, Jack L, Bus.....	Seattle
Charleston, Wm M, Law.....	Seattle
Charlesworth, Ruth, FA.....	Bellingham
Charteris, James M, Bus.....	Seattle
Chase, Dorothy G, LA.....	Edmonds
Chase, Florabelle, LA.....	Seattle
Chase, Jennie A, Sci.....	Edmonds
Chase, Loretta, FA.....	Cut Bank, Mont
Chase, Ruth, LA.....	Mt Vernon
Chastain, Maude, Edu.....	Seattle
Chutfield, Chester, LA.....	Seattle
Chatterton, Dorothy, Sci.....	Seattle
Chatterton, Katherine, Sci.....	Seattle
Chatterton, Mary J, LA.....	Seattle
Cheesman, Esther L, LA.....	Spokane
Cheesman, Hugh F, LA.....	Spokane
Cheldelin, Earl, V LA.....	Seattle
Chen, Daniel H, Bus.....	China
Chen, David H, LA.....	China
Cheng, Rao-Ku, LA.....	China
Chesebrough, H S, rad.....	W Liberty, Iowa
Chester, Helen, FA.....	Seattle
Chester, W G, FA.....	Bellingham
Chew, Eric M, Sci.....	Seattle
Chew, Richard F, LA.....	Seattle
Chichester, J Bernard, LA.....	Seattle
Chilcott, Dorothy, LA.....	Menlo Park, Calif
Child, Elizabeth, FA.....	Seattle
Childs, Herbert E, Grad.....	Donald
Chilson, George H, Engr.....	Vancouver
Chin, P S, Bus.....	Seattle
Chinella, Mary, LA.....	Seattle
Ching, George K, Bus.....	Honolulu
Chinn, Yuln Kee, Bus.....	Seattle
Chisholm, Frances E, LA.....	Santa Rosa, Cal
Chittenden, Robert A, Bus.....	Kent
Chong, Francis, Sci.....	Hawaii
Chopson, Warner, LA.....	Seattle
Christensen, Catherine P, Sci.....	Charleston
Christensen, Dorothy, LA.....	Chehalis
Christensen, Eva, FA.....	Seattle
Christensen, F A, Grad.....	Seattle
Christian, Byron H, Grad.....	Seattle
Christine, Chadwick W, Sci.....	Tacoma
Christianson, Victor, Grad.....	Everett
Christopher, Norman A, Engr.....	Seattle
Christy, Bruce V, Engr.....	Seattle
Christy, R K, Engr.....	Seattle
Chu, Tung Chi, Bus.....	China
Church, Alford, Bus.....	Snoqualmie Falls
Church, Anna E, Grad.....	Tacoma
Church, Margaret, Sci.....	Tacoma
Church, Ruth M, Edu.....	La Conner
Church, William L, Bus.....	Seattle
Churchill, Amy, LA.....	Seattle
Churchward, Philip E, Sci.....	Tacoma
Churchwell, Wm Henry, Law.....	Seattle
Chute, Leonel H, LA.....	Seattle
Cisna, Charles R, Bus.....	Bellingham
Cisna, Jack R, LA.....	Bellingham
Clague, J A, Fkh.....	Seattle
Clampett, Lyle A, Bus.....	Seattle
Clancy, Margaret P, Educ.....	Seattle
Clancy, Robert J, FA.....	Seattle

Clark, Allan A. LA.....	Seattle
Clark, Avilde Lee, LA.....	Seattle
Clark, A. M. Engr.....	Seattle
Clark, Calvin C. LA.....	Seattle
Clark, David P. LA.....	Ellensburg
Clark, Eva S. Sci.....	Seattle
Clark, Evelyn Gordon, Sci.....	Bellingham
Clark, Harry, Sci.....	South Bend
Clark, Hester, Bus.....	Seattle
Clark, A. Horace, Engr.....	Balboa
Clark, Lou Ena, Grad.....	Palmira
Clark, Lucile J. LA.....	Centralia
Clark, Marian E. LA.....	Powell, Wyo
Clark, Marjorie E. LA.....	Seattle
Clark, Robert Granger, LA.....	Bremerton
Clark, Thomas J. Bus.....	Seattle
Clark, Vernice V. LA.....	Seattle
Clark, William A. LA.....	Ellensburg
Clarke, Ellen L. Bus.....	Seattle
Clarke, George E. Law.....	Spokane
Clarke, George W. Law.....	Mercer Island
Clarke, Jean Frances, LA.....	Yakima
Clarke, Jeannette A. LA.....	Yakima
Clarke, Katherine, LA.....	Seattle
Clausen, Clifford Earl, FA.....	Seattle
Clausen, Dorothy A. LA.....	Seattle
Clausen, Jensen C. Engr.....	Seattle
Clausen, Raymond, Bus.....	Kent
Clarkson, John, Bus.....	Seattle
Clay, Charles Field, LA.....	Gig Harbor
Clay, Marjorie, FA.....	Seattle
Clayberg, Sylvester, Law.....	.....
Clayton, Walter C. Engr.....	Seattle
Clearman, Fred L. Bus.....	Longview
Clearman, Louise H. LA.....	Longview
Cleave, Arthur B. Engr.....	Columbia Falls, Mt
Clein, Lillian, Phar.....	Seattle
Cleland, Ruth E. Sci.....	Coeur d'Alene, Ida
Clem, Harold Carl, Engr.....	Tekoa
Clement, H. Delos, Bus.....	Granger
Clemmer, Francis S. FA.....	Yakima
Clemmer, Ruth, Sci.....	Yakima
Clemmons, Edward, Engr.....	Olympia
Cleveland, Graydon, Bus.....	Vane
Cleveland, Marie, FA.....	Seattle
Cleveland, Ruth A. Sci.....	Burlington
Clift, Walter F. Bus.....	Yakima
Cline, J. DeLancy, Bus.....	Bellingham
Olithero, Laura Mae, Sci.....	Seattle
Cloud, George W. LA.....	Sunnyside
Cluck, J. R. LA.....	Bothell
Clyde, Alexander, LA.....	Seattle
Clyde, Betty F. FA.....	Seattle
Clyde, Winona, LA.....	South Bend
Coale, A. Draper, Jr. Law.....	Tacoma
Coale, Elizabeth, LA.....	Tacoma
Coart, John, LA.....	Seattle
Coates, Roy, Law.....	Seattle
Coats, Alfred Freeman, LA.....	Seattle
Coates, John S. LA.....	Seattle
Coats, Robert, Min.....	Seattle
Coble, Edgar, LA.....	Seattle
Coburn, Helen, LA.....	Wenatchee
Cochran, Ida N. FA.....	Tacoma
Cochran, Neil M. Bus.....	Snohomish
Cochran, S. W. Engr.....	Seattle
Cochran, Walter M. Bus.....	Seattle
Cockburn, Christeen J. Bus.....	Seattle
Cockcroft, Ruth W. Sci.....	Hawaii
Cocking, Boyd V. LA.....	Centralia
Codding, Jack W. Phar.....	Seattle
Cody, Samuel, LA.....	Hawaii
Coffee, W. Glennon, Bus.....	Tacoma
Coffey, John J. LA.....	Seattle
Coffin, Doris, Sci.....	Seattle
Coffin, Ruth, FA.....	Seattle
Cohen, Analene, Sci.....	Spokane
Cohen, Ben, Engr.....	Seattle
Cohen, Joseph, Grad.....	Seattle
Cohen, Rose, LA.....	Seattle
Cohn, Rose M. LA.....	Seattle
Cohn, Mildred, LA.....	Spokane
Coit, Frederick P. LA.....	Big Timber, Mont
Colby, Allen Lee, Engr.....	Seattle
Colby, Lee A. Bus.....	Sunnyside
Colby, W. Harman, Bus.....	Sunnyside
Colcock, P. Bentley, Sci.....	Seattle
Cole, Clyde A. Sci.....	Seattle
Cole, Eva Marsden, Grad.....	Seattle
Colby, Lee A. Bus.....	Sunnyside
Cole, Harold C. Bus.....	Spokane
Cole, Hawley I. Bus.....	Spokane
Cole, Marcel C. LA.....	Spokane
Cole, Marjorie E. Grad.....	Seattle
Colebaugh, Helen, Grad.....	Rolfe, Ia
Coleman, Allen, Bus.....	Seattle
Coleman, Zenas Y. LA.....	Toppenish
Collett, Margaret, LA.....	Tacoma
Collett, William R. Sci.....	Tacoma
Collier, Kathleen, LA.....	Seattle
Collins, Grenold, LA.....	Pasadena, Calif
Collins, Junius L. LA.....	Seattle
Collins, Marie, FA.....	Tacoma
Collins, Mary E. LA.....	Seattle
Collins, Thelma, LA.....	Enunclaw
Collins, Wallace G. LA.....	Seattle
Collison, Harriet, Sci.....	Seattle
Colman, Andrew T. Bus.....	Boise, Ida
Colman, Isabel Susan, Grad.....	Seattle
Colman, Walter M. LA.....	Seattle
Colquhoun, Carlton P. For.....	Seattle
Combs, Harold T. Bus.....	La. Conner
Combs, Hazel A. FA.....	Tacoma
Combes, Jack, LA.....	Hoquiam
Commerce, V. Sci.....	Colville
Comoff, Agnes, Bus.....	Everett
Compau, William J. Engr.....	Seattle
Compton, Ann, FA.....	Seattle
Compton, F. M. Engr.....	Seattle
Compton, Ira D. Bus.....	Seattle
Conant, Estella, Edu.....	Seattle
Condon, Isabel R. LA.....	Seattle
Condon, Robert, For.....	Seattle
Cone, Howard M. Jr. Engr.....	Longview
Congdon, Byron, LA.....	Gebo, Wyo
Congdon, Shirley A. LA.....	Yakima
Conger, Harry M. Fsh.....	Seattle
Conger, Merritt, Bus.....	Seattle
Connell, Dorothy Margaret, LA.....	Seattle
Connell, Helen K. LA.....	Yakima
Connell, Laura M. Grad.....	Fond du Lac, Wis
Connell, Richard E. Bus.....	Seattle
Connick, Edwina, LA.....	Seattle
Connick, Janet G. LA.....	San Francisco, Cal
Connolly, B. Genevieve, Edu.....	Hensler, ND
Connolly, Zoa E. Grad.....	Seattle
Connors, Ralph T. LA.....	Vancouver
Conover, C. Norman, Jour.....	Seattle
Conrad, Georgia M. Sci.....	Seattle
Constans, Kathryn, FA.....	Seattle
Constantine, Frances, FA.....	Seattle
Constantine, Phyllis, FA.....	Seattle
Conway, Jack, LA.....	Skagway, Alaska
Cook, Arthur D. Bus.....	Chimacum
Cook, Dean L. Bus.....	Seattle
Cook, Dorothy Y. FA.....	Seattle
Cook, Eugene H. Bus.....	Madras, Ore
Cook, Flo, FA.....	Anacortes
Cook, Frank, Bus.....	Seattle
Cook, George, LA.....	Seattle
Cook, Helene, Sci.....	Seattle
Cook, Jack C. LA.....	Snohomish
Cook, Marjorie, Sci.....	Seattle
Cook, Parker E. FA.....	Seattle
Cook, Phoebe M. FA.....	Seattle
Cook, Richard Hiram, Sci.....	Bellingham
Coolidge, Margaret F. LA.....	Seattle
Coombs, Howard, LA.....	Seattle
Coon, Grace, Edu.....	Yakima
Cooney, Juanita, Bus.....	Seattle

Copenhaver, Edith, Bus.....	Seattle
Cooper, Charles, Sci.....	Seattle
Cooper, Claire, Sci.....	Seattle
Cooper, Dorothy M., LA.....	Tacoma
Cooper, Elizabeth, LA.....	Seattle
Cooper, Elizabeth Cole, Sci.....	Tampa, Fla
Cooper, Lemuel B., Engr.....	Seattle
Copenhagen, Helen, Sci.....	Seattle
Coppers, Margaret, FA.....	Falls City
Corbaley, Tom B., Bus.....	Seattle
Corbett, Helen A., LA.....	Walla Walla
Corbett, Phyllis G., LA.....	Dayton
Corcoran, James P., Engr.....	Seattle
Corey, Edith, Sci.....	Seattle
Corey, Elva F., Bus.....	Seattle
Corfield, Charles, FA.....	Kapowsin
Corliss, Webster E., Bus.....	Seattle
Cornelius, Helene, FA.....	Seattle
Cornell, Virginia B., Sci.....	Tacoma
Cornalls, Thomas, Engr.....	Tacoma
Corning, Edgar, LA.....	Seattle
Cornu, Donald, Grad.....	Seattle
Cornue, Gordon, LA.....	Selah
Cornwell, Joseph E., LA.....	Aberdeen
Corpus, Andres M., LA.....	Philippines
Cortes, Rosario T., For.....	Philippines
Cory, Floyd W., Grad.....	Seattle
Cory, Vilva K., Sci.....	Chehalis
Coshun, Janice, LA.....	Seattle
Costantino, Rosa, FA.....	Clayton
Costello, Edward B., Bus.....	Kent
Cotter, Eugene F., Engr.....	Yakima
Cotterill, Edyth, Educ.....	Clear Lake
Cotton, Betty Sue, LA.....	Seattle
Cotton, Marion L., Phar.....	Melbourne
Couch, Samuel P., FA.....	Seattle
Coughlin, Margaret, LA.....	Spokane
Coulter, Dorothy Bernice, Edu.....	Ilwaco
Courtright, Easter R., Bus.....	Spokane
Coventry, Edwin J., Grad.....	Everett
Covington, Duane M., For.....	Seattle
Cowden, Neva L., Edu.....	Seattle
Cowderoy, Ione Frances, LA.....	Seattle
Cowgill, John M., Engr.....	Stellacoom
Cowling, Merle W., LA.....	Port Angeles
Cox, Allen Howard, For.....	Seattle
Cox, Cliveden L., Phar.....	Hot Springs, Ark
Cox, Lytell Williams, LA.....	Lake Stevens
Cozzatti, Louis S., LA.....	Spokane
Craft, Doris T., LA.....	McCleary
Craig, Genevieve A., Educ.....	Longview
Craig, Eva Arlys, FA.....	Seattle
Craine, Betty Ann, FA.....	Seattle
Cram, Edwin S., LA.....	Seattle
Cram, Evelyn E., LA.....	Seattle
Cram, Jack R., LA.....	Seattle
Cramer, Dorothy M., LA.....	Bellevue
Cramond, James C., LA.....	Seattle
Crandall, Marguerite E., LA.....	Seattle
Crandell, Maud L., FA.....	Seattle
Crane, Alice, Sci.....	Seattle
Crane, Elzata G., FA.....	Seattle
Crane, Estare, LA.....	Seattle
Crapser, Anna H., Grad.....	Tacoma
Craven, Eleanor, LA.....	Butte, Mont
Crawford, Leon Charles, LA.....	Anacortes
Crawford, Marshall, Phar.....	Seattle
Crawford, Roberta M., FA.....	Seattle
Crawshaw, Lulu C., Educ.....	Seattle
Cramer, Henry, Grad.....	Seattle
Creps, Oscar L., FA.....	Seattle
Crippen, George W., LA.....	Clearwater
Crist, Kenneth M., Sci.....	Spokane
Crowley, Wm., Engr.....	Seattle
Cunningham, Chester M., Bus.....	Seattle
Curtis, Allan D., Bus.....	Seattle
Curtis, Fred J., LA.....	Seattle
Curtis, Wm L., Sci.....	Seattle
Curry, Jerome J., Bus.....	Yakima
Curtis, Elizabeth L., LA.....	Seattle
Cushing, Eugene G., LA.....	Vancouver
Cushing, John F., Bus.....	Puyallup
Cussac, Edmond F., Engr.....	Issaquah
Cutler, Bernice, FA.....	Seattle
Cutler, Emily, Sci.....	Vashon
Cutter, Glen G., Sci.....	Seattle
Cutter, Raymond, Engr.....	Seattle
Cutting, Judson, Bus.....	Seattle
Cutts, Elmer H., LA.....	Seattle
Cutts, Louise, Grad.....	Seattle
Crockett, Oliver W., Jr., LA.....	Seattle
Crombie, Besse M., Phar.....	Olympia
Crosby, Eugenia Relf, Edu.....	Seattle
Crosby, Roy H., Engr.....	Seattle
Croze, Wallace B., Bus.....	Seattle
Crosier, Kenneth I., Engr.....	Kearney, Nebr
Cross, Marguerite, LA.....	Spokane
Crothers, Muriel, LA.....	Seattle
Crottinger, Clara M., FA.....	Seattle
Crouch, Vincent F., LA.....	Grandview
Crout, Glenn E., Bus.....	Anacortes
Crouter, Maud, Edu.....	Seattle
Crow, Jane May, Grad.....	Kirksville, Mo
Crowell, John, Engr.....	Olympia
Crowell, Robert, Engr.....	Pasadena, Calif
Crowley, George, Bus.....	Butte, Mont
Crowley, Loretta, LA.....	Seattle
Croxton, Refene, FA.....	Bremerton
Crueger, Anne, LA.....	Seattle
Cruikshank, Bruce W., Phar.....	Seattle
Cruikshank, Donald R., Engr.....	Lynden
Cruikshank, Kenneth, Phar.....	Seattle
Crum, Frances, LA.....	Seattle
Cruz, Emeterio C., LA.....	Philippines
Cruzan, Leona, LA.....	Seattle
Cuanang, Louis C., LA.....	Philippines
Cull, Milda Patricia, LA.....	Seattle
Cullen, Florence W., LA.....	Seattle
Culley, Maxine M., LA.....	Walla Walla
Culver, Mary L., Edu.....	Bellingham
Culwell, Louise, LA.....	Seattle
Cummins, Florence Mae, LA.....	Seattle
Canada, Butiquio P., LA.....	Philippines
Cundiff, Velda P., Grad.....	Wenatchee
Cunningham, Claude O., Bus.....	Leavenworth
Cunningham, Marvel, Sci.....	Ellensburg
Cunningham, Robert J., Bus.....	Gibson City, Ill
Curran, Bertrend J., LA.....	Seattle
Currie, Leo, Sci.....	Montesano
Curry, Eula M., LA.....	Seattle
Curry, Lillian Ruth, LA.....	Seattle
Curry, Lynn C., Bus.....	Sedro-Woolley
Dabney, Elmer S., Edu.....	Maltby
Dagg, Helen Gertrude, LA.....	Seattle
Daggett, Annie, Sci.....	Port Ludlow
Daggett, Alice, LA.....	Cordova, Alaska
Dahl, Gilbert M., LA.....	Spokane
Dahl, Hylas L., Sci.....	Seattle
Dahlen, Beth, LA.....	Seattle
Dahlgren, Edwin H., Fsh.....	Tacoma
Dahlhjelm, Geneva M., FA.....	Seattle
Dahlhjelm, Marian, FA.....	Seattle
Dahlman, Margaret, LA.....	Seattle
Daigneault, Fred J., LA.....	North Bend
Dalley, Clarence, LA.....	Seattle
Daily, Dean C., FA.....	Hollywood, Calif
Dakserhof, Boris, Bus.....	Russia
Dalby, Milton A., LA.....	Richmond Beach
Dale, Eugene, Engr.....	Port Townsend
Dale, Wm Morris, Engr.....	Anacortes
Daly, Pat, LA.....	Seattle
Dallavo, John W., Law.....	Grand Rapids, Mich
Dalquest, John E., Engr.....	Richmond Beach
Dalton, Louise Thelma, LA.....	Seattle
Daly, Elizabeth, LA.....	Port Townsend
Daly, William, LA.....	Renton
Damerell, V Richard, Grad.....	Earlington
Dando, Ruth, LA.....	Seattle
Dang, Andrew N., Engr.....	Seattle

Daniel, Dorothy, LA.....	Alberta, Canada
Daniels, Albert S. Bus.....	Tacoma
Danielson, Marvin, LA.....	Aberdeen
Dann, William J. LA.....	Seattle
Dannemiller, Herbert, Engr.....	Mt Vernon
Danner, Clayton E. Engr.....	Kent
Dannug, Leon, LA.....	Philippines
Dannug, Regino, Engr.....	Cauayan, PI
Daquilog, Sebastian, Grad.....	Philippines
Darby, John, Bus.....	Puyallup
Darragh, James B. Jr. Engr.....	Seattle
Darrow, Willis T. LA.....	Seattle
Daubenspeck, Eloise E. FA.....	Seattle
D'Augustine, Edwyne, Bus.....	Seattle
Daum, Edna Winifred, Grad.....	Seattle
Daut, Audrey, LA.....	Seattle
David, Genevieve, LA.....	Seattle
David, Mary K. LA.....	Ontario, Ore
Davidson, Allen, LA.....	Seattle
Davidson, Barbara, Sci.....	Seattle
Davidson, E W. Engr.....	Bremerton
Davidson, Frances Jean, LA.....	Seattle
Davidson, Loren C. Jr. LA.....	Montesano
Davidson, Lorna E. LA.....	Seattle
Davidson, Violette, FA.....	Seattle
Davidson, William M. LA.....	Seattle
Davies, Anne, LA.....	Carbonado
Davies, Arwin, Engr.....	Seattle
Davies, Elizabeth, Grad.....	Spokane
Davies, Milton R. Sci.....	Seattle
Davies, Robert A. Bus.....	Tacoma
Davin, Jackson, Bus.....	Walla Walla
Davin, Virgil, LA.....	Walla Walla
Davis, Annabelle E. Bus.....	Seattle
Davis, Benjamin F. LA.....	Seattle
Davis, Byron L. Bus.....	Seattle
Davis, Catherine, LA.....	Sheridan, Wyo
Davis, Donald, Bus.....	Seattle
Davis, Charles Warren, LA.....	Seattle
Davis, George S. LA.....	Donald
Davis, Harvey, Law.....	Wenatchee
Davis, Howard S. Grad.....	Outcroft, Pa
Davis, Irene Cynthia, LA.....	Seattle
Davis, Kenneth, Law.....	Seattle
Davis, Lilly May, FA.....	Kirkland
Davis, Lyla E. LA.....	Seattle
Davis, Lydamae, LA.....	Seattle
Davis, Manima Wilson, LA.....	Seattle
Davis, Mildred A. Phar.....	Seattle
Davis, Nathaniel C. Bus.....	Seattle
Davis, Norma P. Sci.....	Ridgefield
Davis, Quentin R. LA.....	Stanwood
Davis, Ralph K. Engr.....	Seattle
Davis, Ralph S. LA.....	Davenport
Davis, Robert G. Bus.....	Seattle
Davis, R H. For.....	Anacortes
Davis, William R. Bus.....	Seattle
Davison, W Ward, Bus.....	Spokane
Dawson, Clinton, Bus.....	Seattle
Dawson, Dorothy, LA.....	Bellingham
Dawson, Eleanor G. LA.....	Seattle
Dawson, J C. Edu.....	New Denver, CO
Dawson, Lee, Engr.....	Seattle
Dawson, Marie, FA.....	Seattle
Dawson, Orcena, LA.....	Palo Alto, Cal
Dawson, William R. Engr.....	Los Angeles, Cal
Day, Donald, Bus.....	Seattle
Day, Frank, Phar.....	Bremerton
Day, George H. LA.....	Clarkston
Day, Merritt H. Bus.....	Seattle
Day, John W. Bus.....	Seattle
Deaderick, Kelly D. Law.....	Halfway, Ore
Deahl, Friend A. Bus.....	Seattle
Deakin, Fred W. FA.....	Seattle
Dean, Doris Louise, LA.....	Shelton
Dean, Ella C. FA.....	Seattle
Dean, Florence M. Sci.....	Seattle
Dean, Frederick B. Phar.....	Tacoma
Dean, Helen E. LA.....	Seattle
Dean, Jessie, Bus.....	Seattle
Dearborn, Derce, Edu.....	Ontario, Ore
Dearing, Isabelle, LA.....	Seattle
Dearinger, Helen, FA.....	Seattle
DeBruier, Franklin B. Engr.....	Seattle
Deck, Homer, Grad.....	Hillsboro, Ore
Decker, Charles V. Bus.....	Seattle
Deemer, Wayne E. FA.....	Longview
Deering, Harold, Bus.....	Missoula, Mont
De Ford, George, Law.....	Lincoln, Nebr
De Ford, William R. Bus.....	Seattle
De Freest, Grace, LA.....	Honolulu
DeGabriele, Eugene, LA.....	Roslyn
DeGarmo, Gerald, Law.....	Seattle
DeGarmo, Paul Ernest, Engr.....	Seattle
DeGraw, Cullen J. Sci.....	Seattle
DeKray, Raymond W. Law.....	Seattle
de la Cuesta, Bernardo, Min.....	Philippines
DeLacy, Emerson Hugh, LA.....	Seattle
DeLaney, John R. LA.....	Wenatchee
DeLaney, Paul, Sci.....	Wenatchee
DeLanty, William H. Bus.....	Aberdeen
DeLaurenti, Dominick, Bus.....	Renton
DeLaurenti, John, Bus.....	Renton
Delbar, Helen, LA.....	Seattle
Dell, Elwin Barnard, Edu.....	Joliet, Mont
Delmas, Toney, Bus.....	San Jose, Calif
Demarest, Helen Wyckoff, LA.....	Tacoma
Demarest, Ione E. LA.....	Tacoma
DeMary, Dorothy, FA.....	Rupert, Idaho
Deming, Meryl W. Grad.....	Seattle
Dempster, Robert P. For.....	Granger
Denhof, Sherlie P. Bus.....	Chehalis
DeNise, Dwight Dee, Engr.....	Seattle
Denman, Leslie Ward, LA.....	Bossburg
Dennis, Albert W. LA.....	Seattle
Dennis, Roy G. Bus.....	Longview
Denney, Bertha E. LA.....	Seattle
Denny, Harold M. For.....	Easton
Denney, Phillip, LA.....	Seattle
Denson, Theodore, Bus.....	Carlton, Ore
DePuy, Hiram, Engr.....	Tacoma
Derig, Will M. Law.....	Seattle
Dernberger, Roy, LA.....	Bellingham
Derwent, Jack Laurence, Bus.....	Seattle
DeSelle, John B. For.....	Everett
DeSerley, Homer Jackson, Engr.....	Seattle
DeSilvia, Ernest R. For.....	Seattle
de Soto, Alexander, Edu.....	Seattle
Devanna, Aileen Winifred, LA.....	Auburn
Dever, Ralph E. Engr.....	Aberdeen
DeVick, Agnes M. Bus.....	Seattle
Dewar, Duncan W. Bus.....	Manette
Dewar, Warren L. LA.....	Manette
Dewey, S Charles, Engr.....	Seattle
DeWitt, Cleo V. FA.....	Longview
DeWitt, Ruth, FA.....	Seattle
Dexter, Glenn E. LA.....	Seattle
Deyette, Catherine, LA.....	Seattle
Diamond, Rose, LA.....	Seattle
Dick, Bessie M. Educ.....	Seattle
Dick, Gordon Wayne, LA.....	Seattle
Dick, Miriam Russell, LA.....	Seattle
Dick, R Sherman, LA.....	Seattle
Dickey, Virginia Barbara, FA.....	Seattle
Dickey, Miriam L. LA.....	Kallispell, Mont
Dickinson, Dorothy June, LA.....	Raymond
Dickinson, George E. Min.....	Seattle
Dickinson, George L. Bus.....	Napavine
Dickinson, L W. Sci.....	Seattle
Dickson, Irene Y. FA.....	Seattle
Dickson, John C. Grad.....	Seattle
Dickinson, Thelma, LA.....	Ringside
Dickson, Belle L. Educ.....	Spokane
Dickson, William J. LA.....	Sedro-Woolley
Dickson, Virgil P. Educ.....	Omak
Didzun, Oscar J. LA.....	Seattle
Dilem, Virginia, FA.....	Seattle
Dietrich, Lotsee, FA.....	Raymond
Dietrich, Norman E. LA.....	New Orleans, LA
Diffenbacher, William, LA.....	Spokane
Dignon, Robert E. Bus.....	Seattle
Dill, Martin, Fsh.....	Seattle

Dille, Melvin, LA.....	Seattle
Dilling, Helen Mae, LA.....	Seattle
Dilling, Margaret, LA.....	Seattle
Dillon, George D, Bus.....	Seattle
Dillon, Sue, LA.....	Seattle
Dills, Leslie H, Law.....	Yakima
Dills, Ruth E, FA.....	Seattle
Dilworth, Richard L, Bus.....	Seattle
Dimalanta, Fortunato A, Bus.....	Philippines
Dimick, Clinton, Bus.....	Naches
Dingle, John H, Phar.....	Seattle
Dingie, Lella V, LA.....	Seattle
Dingle, Virginia, LA.....	Newport
Dingley, Henrietta, LA.....	Seattle
Dingwall, Archibald, LA.....	Seattle
Dirks, Clarence, LA.....	Palo Alto, Calif
Dishnow, Jay, LA.....	Seattle
Dishnow, Sylvia, LA.....	Seattle
Dialer, Marie, LA.....	Seattle
Ditlevson, L, LA.....	Opportunity
Ditmars, Tracy, Bus.....	Olympia
Dittemore, Wallace C, Engr.....	Seattle
Ditter, Bernadine, LA.....	Yakima
Ditter, Florence, LA.....	Yakima
Ditty, James, Law.....	Bellevue
Ditty, Margaret, LA.....	Bellevue
Dix, Florence, Sci.....	Seattle
Dixon, Fredricka, FA.....	Seattle
Dixon, Gordon A, FA.....	Seattle
Dixon, Wesley N, Fsh.....	Battle Ground
Dmitrieff, John T, Engr.....	Seattle
Dobbins, Frank L, Bus.....	Auburn
Dobbs, Frances E, Sci.....	Placerville
Dobson, Chas R, Bus.....	Port Angeles
Dobrin, Hilda, Libr.....	Yakima
Dobrovolsky, A N, Engr.....	Seattle
Dobson, J W, LA.....	Renton
Dodd, Gordon Bennett, Law.....	Wapato
Dodds, Gordon A, Sci.....	Seattle
Dodge, Elva Mabel, Sci.....	Portland, Ore
Dodson, Eleanor, LA.....	Bellingham
Dodson, James M, Bus.....	Seattle
Dodson, J M, Sci.....	Seattle
Dodson, Perry, Engr.....	Burlington
Doernbecher, Dorothy, LA.....	Seattle
Doheny, Geraldine, Grad.....	Seattle
Dohm, Dorothy G, LA.....	Olympia
Dohm, Dudley D, Engr.....	Olympia
Dol, Hanayo, Sci.....	Seattle
Dol, Minaji, Engr.....	Seattle
Dolan, Edmund, Bus.....	Butte, Mont
Doll, Howard B, Engr.....	Seattle
Dolphin, John J, LA.....	Seattle
Dolphin, Ruth, LA.....	Seattle
Domingo, Liberato S, LA.....	Seattle
Dompler, Beatrice, FA.....	Seattle
Donovan, Harry, Bus.....	Monroe
Donohoe, F M, LA.....	Chehalis
Donaldson, Alice, Bus.....	Seattle
Donnelly, Achsa P, LA.....	Seattle
Donohue, Douglas, Engr.....	Seattle
Donohue, Marion M, LA.....	Seattle
Donovan, Ann Gowen, LA.....	Everett
Dooley, Helen A, Grad.....	Seattle
Dooley, Helen G, LA.....	Seattle
Dooley, James, FA.....	Fall City
Doran, Marjory K, Sci.....	Burlington
Dorland, Drusilla, Grad.....	Medina
Dorman, Clifford H, Engr.....	Camas
Dormann, Helen M, Sci.....	Seattle
Dorris, Anne T, LA.....	Seattle
Dorris, William F, Bus.....	Seattle
Dorsey, David T, LA.....	Waterville
Doud, Warren, LA.....	Seattle
Douglas, Clara, FA.....	Seattle
Douglas, Foster, LA.....	Wapato
Douglas, George S, Engr.....	Seattle
Douglas, James, Bus.....	Seattle
Douglas, Neva, FA.....	Seattle
Douglas, Robert M, Bus.....	Seattle
Douglass, Don D, Bus.....	Pasco
Douglass, Edward L, Bus.....	Wenatchee
Doumani, Charles, Engr.....	Seattle
Doumit, Mitchell, Law.....	Cathlamet
Doumit, Rose, LA.....	Cathlamet
Doust, Elizabeth, LA.....	Anacortes
Dow, H Preble, Engr.....	Sunnyside
Dow, Thomas, Bus.....	Seattle
Dow, Wilbur E, Jr, LA.....	Seattle
Dowler, Dorothy, LA.....	Seattle
Downer, Burdette, Engr.....	Kersey, Colo
Downer, John M, Phar.....	Hawaii
Downie, Charles A, Bus.....	Seattle
Downie, Grace Elizabeth, LA.....	Seattle
Downing, Evelyn, LA.....	Mt Vernon
Doyle, Margaret, Phar.....	Seattle
Doyd, Warren D, LA.....	Davenport, Ia
Doyle, John W, Sci.....	Spokane
DraGoo, Cornelia M, LA.....	Seattle
Drake, Betty Dolores, LA.....	Seattle
Drake, James D L, For.....	New York, NY
Drake, Virginia, LA.....	Long Beach, Calif
Drake, Fenton, Fsh.....	Seattle
Drake, Francis Edmund, Bus.....	Selah
Drake, Lucille, FA.....	Fall City
Dranga, Melvin, LA.....	Seattle
Draper, Dorothy E, LA.....	Seattle
Dray, Monte H, Bus.....	Auburn
Drees, Kathryn June, LA.....	Seattle
Dremolski, F J, For.....	Coupeville
Dremolski, Louis A, For.....	Coupeville
Drew, Claire, Jour.....	Seattle
Drew, John Terrance, Bus.....	Seattle
Driscoll, Anna Marie, Sci.....	Kallispell, Mont
Driscoll, Charles, Bus.....	Seattle
Driscoll, Edwin U, Law.....	Seattle
Drumheller, James, LA.....	Seattle
Drumheller, Thomas Jesse, LA.....	Walla Walla
Drury, Irving, LA.....	Ketchikan, Alaska
Drury, Omer C, Engr.....	Seattle
Dryer, John S, Bus.....	Yakima
Drysdale, C E, Engr.....	Everett
DuBois, Frances G, FA.....	Seattle
DuBois, Margaret S, FA.....	Seattle
DuBois, Jeanette, Sci.....	Vancouver
Duckworth, Bernice, Bus.....	Seattle
Dudley, Dorothy H, Sci.....	Caldwell, Ida
Dudley, James, LA.....	Seattle
Dudley, Mary Potter, LA.....	Aberdeen
Duell, Mildred M, LA.....	Chehalis
Duett, Chester L, Bus.....	Seattle
Duff, Alec, LA.....	Seattle
Duff, Edmund E, Engr.....	Renton
Duff, Marian L, Sci.....	Renton
Duffy, Edwin H, LA.....	Seattle
Duffy, Harold Joseph, Fsh.....	Seattle
Dugan, Francis T, LA.....	Seattle
Dugan, Guy B, LA.....	Camp Lewis
Dugan, James, Law.....	Seattle
Duggan, Fred W, Engr.....	Spokane
Dumo, Mariano E, LA.....	Philippines
Dun, Kwei, LA.....	China
Dunbar, Helen, LA.....	Vashon
Duncan, Charles A, LA.....	Seattle
Duncan, John A, Jr, Sci.....	Seattle
Duncan, Margaret E, LA.....	Seattle
Duncan, Margaret M, Sci.....	Custer
Duncan, Marian, FA.....	Seattle
Dunham, Earline, FA.....	Seattle
Dunlop, Henry A, Grad.....	Seattle
Dunks, William, Bus.....	Butte, Mont
Dunlap, Margaret, LA.....	Pe Ell
Dunn, Edward B, Bus.....	Seattle
Dunn, Gertrude J, FA.....	Seattle
Dunn, Lawrence, Sci.....	Seattle
Dunn, Lucy, FA.....	Seattle
Dunn, Yenchuen Yih, Grad.....	China
Dunning, Guy E, Law.....	Seattle
Dunseath, Clifford, Bus.....	Tacoma
Dunton, Marjorie, Libr.....	Olympia
DuPuis, Frederick J, LA.....	Seattle
Durand, Helen M, LA.....	Everett



D'Urbal, John, Grad.....	Spokane
Durham, Howard, LA.....	Bellingham
Durkee, K M, Engr.....	Seattle
Durning, Katherine, FA.....	Seattle
Durrant, Dudley A, LA.....	Snohomish
Durrwachter, Hilda, Edu.....	Seattle
Durrwachter, Irma, Edu.....	Seattle
Duryee, Schuyler L, Engr.....	Medina
Dusenberry, Inez M, LA.....	Bozeman, Mont
Duvall, Lois Irene, LA.....	Seattle
Dwight, Charles L, LA.....	Seattle
Dwire, Gertrude, Edu.....	Minot, ND
Dwyer, Mary Agatha, LA.....	Rosalia
Dwyer, Robert G, LA.....	Redmond
Dyer, Douglass, Sci.....	Seattle
Dykeman, John K, LA.....	Seattle
Dykeman, Lola, Sci.....	Seattle
Eager, Lawrence O, Sci.....	Seattle
Eager, Thomas H, Engr.....	South Bend
Eagleson, Helen J, LA.....	Boise, Ida
Eakin, Hattie, Grad.....	Bellingham
East, Marguerite, LA.....	Vancouver
Easter, Charles W, LA.....	Seattle
Easter, Edward K, LA.....	Seattle
Eastwood, Louise, LA.....	Seattle
Easum, Ruth L, Grad.....	Seattle
Eaton, Margaret, FA.....	Seattle
Ebbinghouse, Sherman, LA.....	Seattle
Ebbley, Norman, Jr, Engr.....	Seattle
Eby, Roger I, Engr.....	Spokane
Eccles, David W, LA.....	Spokane
Echols, Albert J, LA.....	Seattle
Ecker, Anthony J, Engr.....	Clayton
Eckern, Edwin H, LA.....	Seattle
Eckert, Donald M, Engr.....	Seattle
Eckmann, Ansel C, Law.....	Seattle
Eckmann, Lloyd F, LA.....	Seattle
Edades, Victorio C, Grad.....	Philippines
Edgall, Dwight, Engr.....	Leham
Edlitz, Danica, FA.....	Seattle
Edline, Dorothy, Sci.....	Seattle
Edmiston, Elsie S, LA.....	Douglas, Alas
Edmondson, Dorothy, LA.....	Santa Barbara Cal
Edmondson, Ted J, LA.....	Denver, Colo
Edris, Frances C, Grad.....	Seattle
Edris, Ruth L, LA.....	DeLand, Florida
Edris, Louise L, LA.....	Cheney
Edris, Roy W, Bus.....	DeLand, Fla
Edwards, Frank, Jr, LA.....	Seattle
Edwards, Gertrude D, LA.....	Seattle
Edwards, Helen, LA.....	Tacoma
Edwards, James B, Engr.....	Seattle
Edwards, Pauline, LA.....	Seattle
Edwards, Thelma L, Grad.....	Seattle
Edwards, Warren C, LA.....	Everett
Edwards, Wilburn, Bus.....	Oakdale
Edwards, William W, LA.....	Seattle
Eernisse, Frederick A, Sci.....	Tacoma
Egan, James, Bus.....	Spokane
Eggen, Edmond, Bus.....	Dumdee, Ill
Efinger, William L, LA.....	Seattle
Ehrhardt, Dorothy, LA.....	Clarkston
Ehrlichman, Hannah E, LA.....	Seattle
Ehmsen, Temple V, Bus.....	Seattle
Eichhorn, George T, FA.....	Seattle
Elde, Gudrun C, LA.....	Seattle
Elfert, Dorothy, FA.....	Seattle
Elfert, O Jean, Sci.....	Seattle
Elgeman, Frank J, Bus.....	Missoula, Mont
Elkenbary, Callista, FA.....	Seattle
Elkenbary, Edna, LA.....	Seattle
Ekholm, Carl G, Sci.....	Sandpoint, Idaho
Elam, James, Jr, Bus.....	Spokane
Eldridge, Alice J, LA.....	Victoria, BC
Eldridge, Eugene, LA.....	Seattle
Elford, Elizabeth M, LA.....	Seattle
Eliassen, Ellert, Engr.....	Seattle
Eliassen, Edwin R, Bus.....	Poulsbo
Eljenholm, Richard D, For.....	Seattle
Elledge, Lela, Grad.....	Seattle
Ellerbeck, Karl H, Engr.....	Seattle
Ellingsen, Carl, Bus.....	Yakima
Ellington, Evelyn, FA.....	Des Moines
Ellington, Maxine, LA.....	Chehalis
Elliott, Helen, LA.....	Seattle
Elliott, Helen N, Grad.....	Seattle
Elliott, Mary E, LA.....	Seattle
Elliott, Richard C, Sci.....	Tacoma
Elliott, Stanley M, LA.....	Kirkland
Ellis, Katherine, LA.....	Waterville
Ellis, Muriel S, LA.....	Seattle
Ellis, Norma B, FA.....	Seattle
Ellis, Ward, FA.....	Seattle
Elmore, Ann, LA.....	Seattle
Elmore, Mary, LA.....	Seattle
Elton, M B, Engr.....	Spokane
Elwell, Fred H, Sci.....	Kelso
Elwell, Margaret, LA.....	Olympia
Embree, Mary J, LA.....	Tacoma
Emery, E G, Engr.....	Seattle
Emery, Margaret O, LA.....	Napavine
Emig, John W, Engr.....	Leavenworth
Empey, Margaret O, LA.....	Spokane
Enbom, Arthur W, LA.....	Wapato
Eng, Arthur G, Bus.....	Seattle
Eng, Oscar, LA.....	Seattle
Eng, R T, Sci.....	Canton, China
Engdahl, Donald, Bus.....	Spokane
Engdahl, Karl E, Bus.....	Spokane
Engel, Ernest D, Engr.....	Seattle
Engel, Helen, LA.....	Seattle
England, Olga, FA.....	Seattle
Engle, Robert E, Bus.....	Coupeville
Engler, James G, LA.....	Seattle
Engmann, Sirl F, FA.....	Seattle
Engstrom, Elton, Law.....	Wrangell, Alaska
Engstrom, Gustaf A, FA.....	Seattle
Engstrom, Louie A, LA.....	Granite Falls
Engstrom, Stanley, Engr.....	Everett
Engvolsen, Olene B, For.....	Port Townsend
Ennis, Mercedes, FA.....	Seattle
Eppstein, Isadore, LA.....	Tacoma
Epton, J Wiltsie, Sci.....	Seattle
Erickson, Alfonso, LA.....	Seattle
Erickson, Allen L, Bus.....	Tukwila
Erickson, Alice S, Sci.....	Seattle
Erickson, Alwyn J, Fsh.....	Seattle
Erickson, Archie M, Engr.....	Deep River
Erickson, Gilbert, Bus.....	Seattle
Erickson, Gustave, Engr.....	Friday Harbor
Erickson, Harold M, Sci.....	Portland, Ore
Erickson, Lenard E, Bus.....	Seattle
Erickson, Leonard L, Bus.....	Seattle
Erickson, Lloyd E, LA.....	Seattle
Erickson, Jewell A, LA.....	Seattle
Erickson, Phil K, Journ.....	Seattle
Erickson, Roosevelt, LA.....	Everett
Erlanger, Katherine Brown, Educ.....	Tacoma
Erlenborn, Franz J, Bus.....	Seattle
Ernst, Eleanor, LA.....	Seattle
Erving, Elizabeth, Sci.....	Red Lodge, Mont
Erving, Taina, Bus.....	Winlock
Estby, Walter, Sci.....	Auburn
Estey, Emily S, LA.....	Mercer Island
Estes, Dorothy, FA.....	Seattle
Ethel, Garland O, Grad.....	Seattle
Estepa, Sotero, Grad.....	Philippines
Estill, Robert, Sci.....	Seattle
Etherington, Thomas J, Grad.....	Elma
Etherton, Ernest A, Engr.....	Seattle
Euchner, Vesta, LA.....	Seattle
Euler, Donald, Engr.....	Seattle
Evans, Bessie M, Grad.....	Olympia
Evans, Catherine, FA.....	Seattle
Evans, Clementine, Phar.....	Seattle
Evans, Dorothy C, LA.....	Seattle
Evans, Irene, Bus.....	Bellingham
Evans, John R, Bus.....	Seattle
Evans, Lacey H, Grad.....	Vancouver, BC
Evans, Margery C, Grad.....	Kapowsin

Evans, Milton J, Bus.....	Seattle	Fish, Vynor S, LA.....	Ellensburg
Evans, Robert G, Engr.....	Grandview	Fisher, Folsom, LA.....	Hoquiam
Evans, Ruth, LA.....	Seattle	Fisher, Grace, Sci.....	Seattle
Evans, Thelma, LA.....	Vancouver	Fisher, Kenneth R, LA.....	Seattle
Evenson, Justin C, Bus.....	Seattle	Fisher, Lloyd H, Engr.....	Seattle
Evenson, W E, Law.....	Seattle	Fisher, Maier T, Bus.....	Edwall
Everett, Lester D, LA.....	Camas	Fisher, Mary A, FA.....	Seattle
Everton, Lily G, Grad.....	Olympia	Fisher, Paul M, FA.....	Denver, Colo
Ewing, Elsie, LA.....	Great Falls, Mont	Fisk, Roy T, Sci.....	Prosser
Faget, Melvin, LA.....	Los Angeles, Cal	Fitch, Hereford, Law.....	Tacoma
Fahay, Florence, FA.....	Seattle	Fitch, Susan, LA.....	Tacoma
Fahay, Philip B, LA.....	Seattle	Fitz, Olive D, LA.....	Seattle
Falconer, Maynard C, Engr.....	Tacoma	Fitzgerald, Elizabeth, Phar.....	Seattle
Falk, David, Bus.....	Boise, Ida	Fitzgerald, Florence H, Sci.....	Seattle
Falk, Julius B, LA.....	Seattle	Fitzgerald, John, LA.....	Seattle
Falkovich, Oleg C, Engr.....	Musk, Russia	Fitzgerald, Louis, Bus.....	Vancouver
Faller, Howard E, Bus.....	Seattle	Fitzgerald, Vernon J, Grad.....	Spokane
Farish, Henry G, Bus.....	Vancouver, BC	Fitzgerald, Wayne A, Bus.....	Spokane
Farmer, Dorothea V, LA.....	Seattle	Fitzharris, Edward J, LA.....	Seattle
Farmer, Wesley E, LA.....	Seattle	Fitzhenry, Evelyn M, LA.....	Seattle
Farnalls, Margaret, Sci.....	Halkirk, Can	Fitzsimmons, Jean F, LA.....	Tacoma
Farnham, Ruth, LA.....	Spokane	Fitzmaurice, Bertrand T, Sci.....	Seattle
Farrar, Elizabeth, LA.....	Seattle	Fitzpatrick, May, Bus.....	Seattle
Farrar, Newell, LA.....	San Francisco, Cal	Fjarlie, Aagot J, LA.....	Arlington
Farrell, Glenn M, LA.....	Camas	Flagler, C W, Sci.....	Spokane
Farrington, Elizabeth, FA.....	Seattle	Flahaut, Martha R, Lib.....	Seattle
Farwell, Stanley, Bus.....	Maine	Flaherty, Maurice G, Grad.....	Seattle
Fasken, Elaine, LA.....	Cashmere	Flaig, Erna, LA.....	Spokane
Faulkner, Elizabeth M, LA.....	Bellingham	Flanagan, Ada M, LA.....	Seattle
Fawcett, John, LA.....	Rochester, Minn	Flanagan, George C, For.....	Seattle
Featherston, George FA.....	Spokane	Flanagan, John C, Engr.....	Seattle
Featherstone, Harriet, LA.....	Wallace, Ida	Flanders, Winona, FA.....	Seattle
Featherstone, John A, Sci.....	Wallace, Ida	Flanley, Mabel G, Grrad.....	Seattle
Fee, Margaret, FA.....	Seattle	Platebo, Helga, FA.....	Seattle
Feek, Charles, LA.....	Clinton	Flavin, Ruth, Educ.....	Tacoma
Feek, Edward O, LA.....	Seattle	Fleming, Alexander, Engr.....	Seattle
Felipe, Eduardo V, For.....	Philippines	Fleming, Glenn B, LA.....	Friday Harbor
Felipe, Servando V, Engr.....	Philippines	Fleming, James P, Bus.....	Seattle
Fellows, Hollis A, LA.....	Seattle	Fleming, Robert E, LA.....	Seattle
Felmley, Marion, Bus.....	Seattle	Fletcher, Blanche, FA.....	Seattle
Felton, Earnest F, LA.....	Kansas City, Mo	Fletcher, Charles M, Engr.....	Chewelah
Fenton, Elizabeth, LA.....	Seattle	Fletcher, George G, Phar.....	Seattle
Fenton, Henry R, Bus.....	Seattle	Fletcher, James R, Engr.....	Seattle
Ferguson, Gordon, Phar.....	Everett	Fletcher, James V, LA.....	Seattle
Ferguson, Jack, For.....	Inglewood, Cal	Fleishman, Wilfed, Bus.....	Seattle
Ferguson, Lois G, Sci.....	Seattle	Fligg, Claude M, Engr.....	The Dalles, Ore
Ferguson, Marion, FA.....	Seattle	Flint, Dorothy J, LA.....	Seattle
Ferguson, A Ronald, Phar.....	Yakima	Flint, Binar, Sci.....	Seattle
Ferguson, Roy R, Bus.....	Alderwood Manor	Flint, Floyd, LA.....	Seattle
Ferguson, William H, LA.....	Bellingham	Fleming, Louise E, Grad.....	Greenville, NC
Ferre, Edna M, FA.....	Seattle	Floberg, Victor A, Engr.....	Tacoma
Ferrell, Robt S, LA.....	Portland, Ore	Flood, Frances, Sci.....	Bremerton
Ferrera, Fernando, Sci.....	Philippines	Flodin, Carl R, Engr.....	Spokane
Ferris, Noel, Bus.....	Stanwood	Flohr, L Carlos, Engr.....	Seattle
Ferriss, Marion O, Sci.....	Seattle	Flood, George E, Law.....	Seattle
Ferry, Frances, FA.....	Seattle	Flood, William H, LA.....	Tacoma
Fesenmaier, Athvleen M, LA.....	Seattle	Florence, Eldo, Phar.....	Hoquiam
Felton, Rhoda M, Bus.....	Spokane	Flournoy, Albert G, Fsh.....	Seattle
Fickel, Doris, LA.....	Everett	Flower, Alan, LA.....	Mabton
Fickel, Ruth E, Sci.....	Everett	Flynn, Frances M, Edu.....	Bremerton
Fickel, Mary Louise, FA.....	Seattle	Flynn, Madeline, LA.....	Spokane
Field, Mary L, FA.....	Centralia	Flyzik, Kathleen E, LA.....	Olympia
Field, Mary M, LA.....	Seattle	Fohn, Walter F, LA.....	Seattle
Field, Rnth B, LA.....	Leavenworth	Fones, Norman, Bus.....	Seattle
Field, William Bus.....	Cordova, Alaska	Foley, Maurice P, Sci.....	Maple Valley
Fields, Cecil R, Phar.....	Seattle	Follett, Floyd K, FA.....	Seattle
Fields, Elsie, LA.....	Seattle	Folsom, Morrill, LA.....	Lakota Beach
Finch, Marguerite, LA.....	Seattle	Folsom, Myrna L, Bus.....	Toppenish
Findlay, Dorothy, LA.....	Seattle	Folts, Frances, Sci.....	Seattle
Findleton, James A, Bus.....	Seattle	Fonacier, Guillermo C, LA.....	Philippines
Fingland, G H, Min.....	Victoria, BC	Foote, Leon R, Grad.....	Billings, Mont
Finlay, Bryson J, LA.....	Seattle	Foott, William H, Engr.....	Portland, Ore
Finlon, Arthur, Fsh.....	Seattle	Forbes, Evelyn, Sci.....	Seattle
Finnigan, Frances, LA.....	Bellingham	Forcum, P L, Engr.....	Seattle
Finneth, Karen D, Sci.....	Brush Prairie	Ford, Edwin G, Jr, LA.....	Seattle
Fischer, Louis, Grad.....	Seattle	Ford, T Foster, Engr.....	Tacoma
Fiscus, Louis R, LA.....	Seattle	Ford, Gertrude C, Brad.....	Trenton, Nebr
Fiset, Louise, LA.....	Seattle	Ford, Melva L, LA.....	Tacoma
Fish, Fred, Bus.....	Seattle	Forde, G K Elliott, LA.....	Spokane
		Fordon, John V, Bus.....	Seattle

Fordyce, Philip, LA.....	Seattle	Friderici, Hazel E, LA.....	Seattle
Foreman, Doris A, Educ.....	Yakima	Friedman, Abe, LA.....	Seattle
Forler, Marian, FA.....	Seattle	Fries, Edward S, Sci.....	Bowling Green, O
Forman, Albert, Bus.....	Spokane	Friese, Norval A, FA.....	Snohomish
Forman, Raymond, LA.....	Wapato	Friese, Virginia F, LA.....	Edmonds
Forney, Cordella, FA.....	Longview	Frink, Phillip F, Engr.....	Seattle
Forney, Orthel, LA.....	Mondovi	Frink, Robert A, LA.....	Vancouver
Forsell, Martin J, Grad.....	Seattle	Frisbie, Chester C, LA.....	Parker
Forsgren, Wallace O, Sci.....	Ellisport	Frisell, Howard, LA.....	Stanwood
Forster, F E, Grad.....	Seattle	Frissell, Howard, Bus.....	Seattle
Forsythe, Katherine, Sci.....	Seattle	Fritch, Barbara L, FA.....	Seattle
Fortin, Jean, LA.....	Bordeaux, France	Fritts, Stella M, FA.....	Seattle
Fortune, Jean B, Sci.....	Port Angeles	Friszell, Don, FA.....	Seattle
Foss, Carl L, Grad.....	Seattle	Frodle, Donald H, Sci.....	Port Angeles
Fosse, Nelda J, Bus.....	Stevenson	Frohman, Clyde, Bus.....	Puyallup
Fossen, Neal, LA.....	Spokane	Frolov, Boris A, Engr.....	Seattle
Foster, Albert O, Bus.....	Tacoma	Frost, Dorothy, FA.....	Bellingham
Foster, David, FA.....	Richmond Beach	Frost, Dorothy Martha, LA.....	Spokane
Foster, Elizabeth, LA.....	Cathlamet	Frost, Harriet, LA.....	Spokane
Foster, Florence, LA.....	Seattle	Frost, Helen, LA.....	Long Beach, Cal
Foster, Gertrude, Sci.....	Omak	Frost, Leona King, FA.....	Seattle
Foster, Robert A, Bus.....	Olympia	Froude, Paul, Sci.....	Seattle
Foster, Wilma, LA.....	Bellevue	Froude, Ruth, LA.....	Seattle
Fouts, Marcia, Sci.....	Seattle	Froula, Dave, Engr.....	Seattle
Fouts, Margaret, Sci.....	Seattle	Froula, Eva, Bus.....	Seattle
Fowler, Earl F, LA.....	Seattle	Froula, Olivia, Bus.....	Seattle
Fowler, H E, Grad.....	Bellingham	Fry, Irene, LA.....	Des Moines
Fowler, Wallace E, Bus.....	Tacoma	Fry, Iva, Edu.....	Hoquiam
Fowlkes, Florence V, LA.....	Seattle	Frye, Elizabeth A, Sci.....	Seattle
Fowlkes, Julia, LA.....	Seattle	Fryer, B R, Fsh.....	Mesa, Ariz
Fox, Alta C, LA.....	Devils Lake, ND	Fryer, Lucia E, FA.....	Seattle
Fox, Bernard A, Bus.....	Spokane	Frykholm, Frances, FA.....	Seattle
Fox, Joseph S, LA.....	Seattle	Fuchek, Linus C, Engr.....	Buckley
Fox, Kenneth, Engr.....	Snohomish	Fue, Hazel, LA.....	Kent
Fox, William J, Jr, FA.....	Seattle	Fujii, Yoshito, LA.....	Seattle
Foye, Laurence V, Bus.....	Seattle	Fukao, Paul, FA.....	Honolulu
Fralsher, Ethelwynne, Sci.....	San Fernando, Cal	Fukuda, Masaaki, Bus.....	Japan
Fragen, Nathan, Engr.....	Seattle	Fulford, Dorothy R, Bus.....	Seattle
France, Muriel, LA.....	Montesano	Fuller, Elizabeth A, LA.....	Aberdeen
Francis, Arthur D, Engr.....	Tacoma	Fuller, Frances O, Edu.....	Park Rapids, Minn
Francis, Jack A, LA.....	Seattle	Fuller, Richard E, Grad.....	Seattle
Francisco, Leland, Engr.....	Chehalis	Fuller, Robert H, FA.....	Seattle
Frank, Elizabeth, LA.....	Spokane	Fuller, Romig C, LA.....	Portland, Ore
Franco, Maurice J, LA.....	Seattle	Fullington, Lloyd A, For.....	Johnson, Vt
Frank, Beth, Bus.....	Seattle	Fulseth, Rubena, FA.....	Aberdeen
Franke, Elizabeth L, LA.....	Ralston	Fulp, Hazel E, LA.....	Kent
Franke, Kathleen, Educ.....	Snohomish	Fulton, David J, Grad.....	Pomeroy
Franklin, Alice M, LA.....	Denver, Colo	Fulton, Donald P, Engr.....	Everett
Franklin, Charles W, Law.....	Naches	Fulton, Inez Bakeman, FA.....	Seattle
Franklin, Ruthmary, Sci.....	Hoquiam	Fulton, Lois M, Grad.....	Asotin
Franks, Ernest, Engr.....	Seattle	Fulton, Omer T, Bus.....	Ellensburg
Fraser, Donald R, LA.....	Yakima	Funk, Clara M, FA.....	Olympia
Fraser, Edna M, Educ.....	Bellingham	Funk, Dawson M, FA.....	Walla Walla
Fraser, Frank, Grad.....	Bellingham	Funk, Joseph T, Bus.....	Seattle
Fraser, John W, FA.....	Seattle	Furey, Frances Clara, LA.....	Wenatchee
Fraser, Lincoln W, Phar.....	Libby, Mont	Furgeson, Carey, LA.....	Seattle
Fraser, Mary, Bus.....	Seattle	Furgeson, Clarice M, FA.....	Seattle
Fraser, Russell E, LA.....	Davenport	Furgeson, Leora, Sci.....	Sumner
Frayn, Mort, LA.....	Seattle	Furuya, Kimi, FA.....	Seattle
Frazier, James W, LA.....	Seattle	Furuya, Masa, FA.....	Seattle
Frederick, Paul J, Bus.....	Seattle		
Frederickson, Lela, Bus.....	Seattle		
Frederickson, Oscar W, Bus.....	Tacoma		
Freed, Gladys, Sci.....	Soap Lake	Gabbert, John T LaMar, LA.....	Seattle
Freed, Joseph E, Bus.....	Seattle	Gabbett, Eleanor, Sci.....	Port Townsend
Freeman, Fred W, Jr, Bus.....	Puyallup	Gabrielson, Carl, Grad.....	Puyallup
Freeman, Freda, Bus.....	Bellingham	Gaches, Beatrice, LA.....	Mt Vernon
Freeman, Janette, LA.....	Seattle	Gaedke, Marie, LA.....	Seattle
Freeman, Jack, LA.....	Aberdeen	Gaffner, Haines Bell, Engr.....	Seattle
Freeman, Trunette A, Educ.....	Centralia	Gaffney, Ruth A, LA.....	Seattle
Freese, Madeline V, FA.....	Everett	Gage, Florence, FA.....	Seattle
Freiberg, Bernice, LA.....	Spokane	Gaine, Juanita June, FA.....	Seattle
French, Dorothy P, Bus.....	Vancouver	Gaines, Donald, LA.....	Seattle
French, Ray T, LA.....	Okanogan	Gale, Evelyn, FA.....	Seattle
French, William P, Engr.....	Seattle	Galima, Leo C, LA.....	Philippines
Freund, Julia, LA.....	Seattle	Gallinger, Edythe Mildred, FA.....	Seattle
Freyd, Bernard, Grad.....	Seattle	Galloway, R L, Bus.....	Seattle
Friborg, Arnold E, Sci.....	Seattle	Galob, Elizabeth E, Sci.....	Seattle
Friday, Paul D, LA.....	Seattle	Galt, Donald S, Engr.....	Seattle
Frick, Wesley V, Sci.....	Dayton	Galt, Byron H, Engr.....	Seattle
Fricke, Edgar F, Bus.....	Seattle	Galura, Toribio P, LA.....	Seattle
		Galvin, Vincent, Bus.....	Seattle

Gambee, Margaret R, LA.....	Seattle	Gezelius, Carl V, Min.....	Northport
Gamble, Bonnie Lou, LA.....	Seattle	Ghiglione, Maybelle, LA.....	Seattle
Gamble, Robert W, LA.....	Spokane	Gibb, Minnie, Sci.....	Aberdeen
Gamble, Theodore, LA.....	Seattle	Gibbon, W L, Law.....	Seattle
Gamer, Alice E, Sci.....	Seattle	Gibbs, Wm W, LA.....	Seattle
Gammlem, Thoralf, LA.....	Seattle	Giblin, Arthur A, LA.....	Tacoma
Gammell, John, Engr.....	Burton	Gibson, J Rodney, Bus.....	Toppenish
Gandy, Ellen, LA.....	Spokane	Gibson, Jessie E, Grad.....	Spokane
Gandy, J E, Law.....	Spokane	Gibson, Leslie, LA.....	Seattle
Gange, Melville, LA.....	Tacoma	Gibson, Scott K, Engr.....	Seattle
Gant, Guilla A, LA.....	Seattle	Gideon, Edith, Sci.....	Winslow
Garbe, Frank A, LA.....	Chehalis	Giers, Carl, LA.....	Tacoma
Garborg, Ruth M, FA.....	Seattle	Gierrin, LA.....	Seattle
Garden, Kathryn L, LA.....	Charleston	Gilbert, Harold S, Bus.....	Seattle
Gardner, Carl L, LA.....	Seattle	Gilbert, Henrietta, Sci.....	Tacoma
Gardner, Hal W, LA.....	Olympia	Gilbert, Sanford M, Engr.....	Seattle
Gardner, Stanley L, LA.....	Spokane	Gilbertson, Alma C, Edu.....	Snohomish
Gardner, J Herbert, Bus.....	Seattle	Gilkey, Mabel G, LA.....	Juneau, Alas
Gardner, Ruth, LA.....	Seattle	Gill, Edward C, Bus.....	Seattle
Garesche, Gladys M, Grad.....	Victoria, BC	Gill, George B, Engr.....	Seattle
Garland, Bob R, Bus.....	Seattle	Gill, Kenneth H, Bus.....	Snohomish
Garman, Roger H, Sci.....	Seattle	Gill, L Presley, Bus.....	Seattle
Garner, Louella, LA.....	Seattle	Gilleland, Mary R, Edu.....	Seattle
Garrecht, Caroline, LA.....	Spokane	Gillen, Charlotte G, FA.....	Seattle
Garred, Ward, Bus.....	Coulee	Gillespie, Margaret R, LA.....	Hogulam
Garrett, Alice, LA.....	Seattle	Gillet, Jessie Madelene, FA.....	Seattle
Garrett, Elton, Jour.....	Ellensburg	Gillette, Mildred B, Phar.....	Seattle
Garretson, Zelma, LA.....	Cosmopolis	Gilley, Robert W, LA.....	Portland, Ore
Garrison, Homer D, Engr.....	Seattle	Gillies, Eva Blanche, LA.....	Sumas
Garrison, Virginia, LA.....	Everett	Gillhouse, Rachel A, Bus.....	Seattle
Garrott, Jean, LA.....	Seattle	Gillings, Bertha, Sci.....	Omak
Garvey, Bert A, Bus.....	Omaha, Nebr	Gilmartin, Autumn, LA.....	Seattle
Garvey, Velma, Phar.....	Seattle	Gilmer, Mary Gertrude, LA.....	Seattle
Garvin, Clifford R, Engr.....	Seattle	Gilmore, Helen, LA.....	Seattle
Gaskill, Vesta, LA.....	Seattle	Gilmore, Josephine L, Sci.....	Seattle
Gaston, Robert D, Bus.....	Seattle	Gilmore, Kenneth, LA.....	Seattle
Gates, Alice E, LA.....	Seattle	Gilmore, Robert H, LA.....	Seattle
Gates, Duane U, Bus.....	Hogulam	Ginger, Grace M, LA.....	Seattle
Gates, Mary M, Edu.....	Arlington	Gingrich, Esther Marie, Edu.....	Spokane
Gates, Robert N, For.....	Seattle	Ginnever, Edward P, FA.....	Seattle
Gaul, Henry C, Bus.....	Seattle	Giovanini, Frank, Engr.....	Roslyn
Gauley, E Phyllis, Bus.....	Seattle	Giroux, Eugene, Sci.....	Seattle
Gaunce, Harold W, Engr.....	Seattle	Giuntoni, Julius D, LA.....	Deer Lodge, Mont
Gavin, H O, LA.....	Seattle	Glanville, Arthur T, Grad.....	Seattle
Gavin, Thomas Jay, LA.....	Seattle	Glasgow, M Joyce, FA.....	Tacoma
Gow, La Mar, Sci.....	Seattle	Glass, Robert, Engr.....	Auburn
Gow, J Wilson, Bus.....	Seattle	Glass, Sam N, LA.....	Seattle
Gayler, Anne R, LA.....	Birmingham, Ala	Gleason, Richard F, LA.....	Castle Rock
Gayler, Ernest, LA.....	Bremerton	Gleason, Robert J, Engr.....	Seattle
Gearry, Vertis H, For.....	Lake Charles, La	Gleason, Zelta, LA.....	Auburn
Gedmin, Ludmila, Phar.....	Seattle	Glenn, Wesley S, Law.....	Seattle
Gechan, John William, Sci.....	Tacoma	Glerup, Marius J, Bus.....	Spokane
Geer, Horace G, Bus.....	Tacoma	Glesin, Dora, LA.....	Seattle
Geer, Willard, Edu.....	Attalla	Glick, Helen Dorothy, LA.....	Tacoma
Gehring, Par J, Bus.....	Seattle	Glickman, Abe Edward, LA.....	Seattle
Geibel, Fred, Bus.....	Bremerton	Glickman, Diana, LA.....	Portland, Ore
Geier, Richard J, Engr.....	Windermere, Fla	Glickman, Louis, LA.....	Seattle
Geisness, John, LA.....	Port Angeles	Glotfelty, Gertrude, Bus.....	Spokane
Gellermann, Mildred W, Edu.....	Chelan	Glover, Augusta, Sci.....	Kekaha, TH
Gemmell, Nina E, LA.....	Tacoma	Lloyd, C H, Bus.....	Puyallup
Genauer, Sam, LA.....	Seattle	Godefroy, Charles A, Engr.....	Spokane
Genther, Benicia, Sci.....	Bellingham	Godefroy, William, Grad.....	Seattle
Genung, Edwin B, Jr, LA.....	Seattle	Godfrey, Nellie, Sci.....	Seattle
George, Dorothy A, Sci.....	Seattle	Godfrey, Xellis W, Engr.....	Lake Stevens
George, Evaline Beryl, LA.....	Seattle	Godsey, Bess H, LA.....	Bellevue
George, Flavius J, LA.....	Seattle	Goeltz, Henrietta M, Sci.....	Salt Lake City U
George, Harry, LA.....	Seattle	Goering, Elmer, Law.....	Monroe
George, Mary M, LA.....	Seattle	Goettling, Gladys W, Educ.....	Seattle
George, Ruth Marie, Sci.....	Seattle	Goff, Earl W, Engr.....	Chelan Falls
Georgetta, Clel, Law.....	Asotin	Goggin, George T, LA.....	Seattle
Gerbelt, Maribeth, Grad.....	Seattle	Goings, Dwight Delton, Bus.....	Seattle
Gerdon, Earle J, LA.....	Seattle	Goldberg, Mary, FA.....	Seattle
Gerhardt, Karl E, LA.....	Aberdeen	Goldberg, Sophia, FA.....	Seattle
German, Harold R, Phar.....	Ritzville	Goldblatt, Alfred, LA.....	Portland, Ore
Germaey, Louise, Grad.....	Seattle	Goldblatt, Helen, LA.....	Portland, Ore
Gerriets, Bertha L, LA.....	Mt Vernon	Goldblatt, Hilda S, LA.....	Chehalis
Gerry, Marlon, LA.....	Seattle	Golden, Constance, Bus.....	Bremerton
Gerth, Louise H, Sci.....	Seattle	Goldsmith, Mary E, LA.....	Portland, Ore
Gershon, Perry R, LA.....	Seattle	Goncharoff, Leonid, Bus.....	Russia
Gerschell, A F, LA.....	Seattle	Gonzales, Deogracias, LA.....	Libacasa, PI
Gettelman, Eugene, Sci.....	Portland, Ore	Gonzales, Jose, LA.....	Philippines

Goach, John, Phar.....	Seattle	Gray, Edith, LA.....	Spokane
Good, Lydia May, LA.....	Mt Vernon	Gray, Emanuel A, Grad.....	Seattle
Goodsell, Julia, Sci.....	Chelan	Gray, Everett, FA.....	Everett
Goodwin, Shirley, LA.....	Seattle	Gray, Donald J, Sci.....	Seattle
Goodwin, Thomas K, Fsh.....	Spokane	Gray, Fluvia C, FA.....	Puyallup
Goodwin, William N, LA.....	McKenna	Gray, Helen E, FA.....	Seattle
Goon, John L, Bus.....	Seattle	Gray, John M, Engr.....	Chimacum
Goore, John, Engr.....	Tacoma	Gray, E Louis, LA.....	Seattle
Gorboritzky, J J, Engr.....	Seattle	Gray, Mary Anne, LA.....	Viola, Ida
Gordon, Blanche, LA.....	Seattle	Gray, Virginia H, LA.....	Seattle
Gordon, Clair, Grad.....	Seattle	Graybill, Anita, Grad.....	Tacoma
Gordon, Clara V, LA.....	Seattle	Greathouse, Forest, Sci.....	Tacoma
Gordon, Jean, LA.....	Lake Stellacoom	Grebe, Enid A, Educ.....	Spokane
Gorham, Elaine, LA.....	Snohomish	Greely, Cyril R, LA.....	Great Falls
Gorham, Elizabeth, LA.....	Seattle	Greely, Dorothy, Bus.....	Ridgefield
Gorham, Harlan W, Bus.....	Snohomish	Greely, Myril J, Law.....	Great Falls, Mont
Gorham, Helen M, LA.....	Snohomish	Green, Allen, Engr.....	Enumclaw
Gorham, Sarah, LA.....	Seattle	Green, Alexander C, Bus.....	Vancouver
Gorman, Mary H, Sci.....	Auburn	Green, Betty, LA.....	Seattle
Goris, Jean, Grad.....	Belgium	Green, Elizabeth G, FA.....	Ansonia, Conn
Gorow, Frank T, Sci.....	Tacoma	Green, Ellsworth, LA.....	Seattle
Gorrell, W Genevieve, LA.....	Seattle	Green, E Norman, Engr.....	Bothell
Gorton, Samuel H, Edu.....	Tacoma	Green, Kathleen M, Edu.....	Tacoma
Gosa, Earl H, LA.....	Seattle	Green, Mamie J, LA.....	Seattle
Gose, J Gordon, Law.....	Walla Walla	Green, Marvel, Sci.....	Seattle
Goss, E Lyle, LA.....	Sumner	Green, Jennie A, LA.....	Seattle
Goss, Worth, Sci.....	Seattle	Green, Lloyd, Bus.....	Seattle
Goudie, G E, Engr.....	Seattle	Green, Paul F, Grad.....	Seattle
Gould, Alex, LA.....	Seattle	Green, Thomas M, Jr, Law.....	Seattle
Gould, Clara W H, Libr.....	Vancouver, BC	Greenberg, Abe Arthur, Phar.....	Seattle
Gould, Marie Louise, LA.....	Seattle	Greenberg, Dorothy, FA.....	Seattle
Gould, Vernon R, LA.....	Seattle	Greenberg, Eloise, FA.....	Seattle
Gourlay, Arthur C, Bus.....	Seattle	Greenblatt, Belle W, LA.....	Seattle
Gow, Henry P, Engr.....	Seattle	Greene, P George, Bus.....	Seattle
Gow, Paul L, Sci.....	Seattle	Greene, Norma, Bus.....	Battle Ground
Gowen, F Joyce, Grad.....	Seattle	Greene, Rachel, Sci.....	Seattle
Gowen, Sylvia, LA.....	Seattle	Greenough, Joe W, LA.....	Spokane
Grace, Elizabeth B, LA.....	Seattle	Greenstone, Charles Robert, LA.....	Seattle
Grady, Mary Alice, Sci.....	Seattle	Greenstreet, Charlotte, LA.....	Seattle
Graef, Edward L, FA.....	Seattle	Greenwalt, Oliver, Sci.....	Yakima
Grafft, Clark F, LA.....	Everett	Greenwell, Catherine M, LA.....	Seattle
Graham, Carroll, Bus.....	Sunnyside	Greenwell, Joseph L, Jr, Sci.....	Seattle
Graham, Elizabeth, LA.....	Bellingham	Greenwich, Al, Fsh.....	Seattle
Graham, Frederick A, Phar.....	Bellingham	Greenwood, Lucile, LA.....	Seattle
Graham, Gordon D, Engr.....	Seattle	Greer, Edward Young, Edu.....	Seattle
Graham, Harriet M, Sci.....	Seattle	Greig, William T, Bus.....	Cashmere
Graham, Jean, Bus.....	Boise, Idaho	Greger, William, Bus.....	Everett
Graham, John, Jr, FA.....	Seattle	Gregg, Dorothy Dean, FA.....	Chehalis
Graham, John Ellis, LA.....	Bellingham	Gregg, Ralph, Sci.....	Seattle
Graham, Phyllis, LA.....	Seattle	Gregg, Vincent, Engr.....	Seattle
Graham, Violet, LA.....	Los Angeles, Cal	Gregory, J C, Engr.....	Seattle
Grahn, Clarence A, Bus.....	Seattle	Gregory, J Mary, Sci.....	Bothell
Grahn, Edgar R, Sci.....	Berkeley, Calif	Gregory, Mercer, LA.....	Seattle
Grahn, T Raymond, Bus.....	Seattle	Gregory, Robert V, Bus.....	Bellingham
Grainger, Iris, FA.....	Seattle	Greiner, Don F, Bus.....	Seattle
Gran, John R, Engr.....	Seattle	Gridasoff, Leonid, Engr.....	Seattle
Granberg, Wilbur J, LA.....	Tacoma	Griep, Elmer F, Engr.....	Seattle
Grandjean, Margaret, LA.....	Seattle	Griep, Harold G, Engr.....	Arlington
Granger, Francis H, Sci.....	Yakima	Griep, Kenneth, LA.....	Fruitland, Ida
Granston, Ray, Engr.....	Seattle	Grier, Elizabeth, Sci.....	Seattle
Granston, Allan E, Min.....	Revelstoke, BC	Grier, Mary Catharine, Sci.....	Seattle
Granstrom, Allan E, Min.....	Revelstoke, BC	Grier, Lammie S, Sci.....	Seattle
Grant, Frank Warren, Bus.....	Everett	Griffin, Edwin L, LA.....	Tacoma
Grant, Helen L, Grad.....	Seattle	Griffin, Hortense, Sci.....	Seattle
Grant, Jennie, LA.....	Seattle	Griffin, J H, Jr, Bus.....	Los Angeles Cal
Grant, John L, LA.....	Alaska	Griffin, Mildred, Sci.....	Seattle
Grant, Laura Ethel, FA.....	Seattle	Griffin, Queenie J, LA.....	Seattle
Grant, Leslie R, Bus.....	Victoria, BC	Griffin, Roy W, Bus.....	Anacortes
Grant, Ruth A, Grad.....	Seattle	Griffin, Wynn L, FA.....	Seattle
Grant, Samuel W, Phar.....	Seattle	Griffiths, Francis P, Sci.....	Seattle
Grant, Vernon H, Engr.....	Seattle	Grigg, Norval William, Engr.....	Seattle
Grant, Wells Harold, Sci.....	Seattle	Griggs, Horace H, Jr, LA.....	Bellingham
Grant, Will P, Bus.....	Seattle	Griggs, J H, Educ.....	Yakima
Grantham, Marguerite, Bus.....	Seattle	Griggs, James O, LA.....	Yakima
Grass, Lorette B, Edu.....	Tacoma	Grigsby, Melvin C, LA.....	Ketchikan, Alaska
Grauman, Helen G, Grad.....	Seattle	Grimes, Nancy Virginia, LA.....	Tacoma
Grasser, Melvin W, Bus.....	Seattle	Grimson, Harry, LA.....	Seattle
Graves, Aleece, LA.....	Juneau, Alaska	Grimson, Christine, LA.....	Seattle
Graves, Katherine, Libr.....	Seattle	Grindell, Virginia, LA.....	Seattle
Graves, Phillip, Bus.....	Richmond Highlands	Grinstein, Sidney, LA.....	Seattle
Graves, Virginia S, FA.....	Seattle	Grisdale, Geo M, For.....	Shelton

Grisdale, Joseph C, LA.....	Shelton	Hagglund, Paul, Sci.....	Port Blakeley
Grismore, John Thomas, FA.....	Oakland, Cal	Hagist, Alfred C, LA.....	Seattle
Gritman, Lorene, LA.....	Spokane	Haglund, Ivar, LA.....	Seattle
Gritsch, Anton H, LA.....	Seattle	Hahn, Genevieve K, Sci.....	Seattle
Gritsch, Ernest A, Bus.....	Seattle	Hahn, Louise, Bus.....	Seattle
Grocock, Frances B, Sci.....	Seattle	Haines, Frances, LA.....	Seattle
Grogan, Wm W, For.....	Seattle	Haines, Harold H, LA.....	Selah
Groff, Margaret, FA.....	Seattle	Hainsworth, Roderick L, For.....	Seattle
Gross, Marjorie Graves, LA.....	Edmonds	Halbert, Margarite F, FA.....	Wenatchee
Groth, Lester A, LA.....	Seattle	Hale, Eleanor B, FA.....	Seattle
Grothe, Reginald O, Fsh.....	Seattle	Hale, Warren W, Sci.....	Portland, Ore
Grove, Clare, LA.....	Alaska	Hall, Annabell, FA.....	Seattle
Grove, Leon C, Grad.....	Seattle	Hall, Bradford, FA.....	Lowden
Groves, George W, F.....	Seattle	Hall, Calvin S, Jr, LA.....	Seattle
Grubb, Vesta, FA.....	Seattle	Hall, Earl W, Bus.....	Seattle
Grubbs, Margaret, LA.....	Tacoma	Hall, Esther, LA.....	Seattle
Gruber, Foster M, FA.....	Walla Walla	Hall, Frances W, Sci.....	San Francisco, Calif
Gruber, Lloyd O, Fsh.....	Seattle	Hall, Fred G, LA.....	Seattle
Gruenberg, Marguerite, LA.....	Seattle	Hall, Gladys, Sci.....	San Francisco, Calif
Grummett, Edith H, Sci.....	Seattle	Hall, John I, Bus.....	Hanaville
Grunbaum, Arthur, LA.....	Seattle	Hall, Lawrence, LA.....	Ketchikan, Alaska
Grunbaum, Helen, LA.....	Seattle	Hall, Lillias, LA.....	Seattle
Grunbaum, James B, FA.....	Seattle	Hall, Lura F, Sci.....	Everett
Grunbaum, Jane, LA.....	Seattle	Hall, Margaret, LA.....	Seattle
Guberlet, Muriel, Grad.....	Seattle	Hall, Ruth V, LA.....	Seattle
Guernsey, Charles E, Bus.....	Seattle	Hallander, Philip W, Bus.....	Portland, Ore
Gulang, Pedro, Edu.....	Philippines	Hallander, Robert, Bus.....	Portland, Ore
Guider, Richard, Bus.....	Seattle	Hallberg, Albert W, Bus.....	Seattle
Gulbeault, Ethel B, LA.....	Seattle	Haller, Theodore, Engr.....	Seattle
Guiland, Floyd H, LA.....	Yakima	Hallett, John L, Engr.....	Seattle
Guilick, John D, Bus.....	Seattle	Hallowell, Russell, LA.....	Redondo
Guillen, Filemon, Edu.....	Philippines	Hallstrom, Charles W, Law.....	Seattle
Guistine, Morris V, LA.....	Seattle	Hallstrom, Eddie W, LA.....	Seattle
Guilmont, John J, LA.....	Seattle	Hallum, Jerome D, Bus.....	Seattle
Guilmont, Robert Patrick, LA.....	Seattle	Halse, George C, For.....	Vancouver, BC
Guilick, Margaret, LA.....	Seattle	Halsey, Theodore F, LA.....	Seattle
Gulliksen, Harold, Grad.....	Seattle	Halvarson, Thure, Engr.....	Seattle
Gulliksen, Olive M, LA.....	Everett	Halverson, Norman M, Bus.....	Seattle
Gummer, Ada, LA.....	Seattle	Halverson, Thelma, LA.....	Tacoma
Gunderson, Fred J, Bus.....	Alaska	Hamblen, Ruth, LA.....	Seattle
Gunderson, Marion Angus, Engr.....	Bothell	Hamilton, Grace, FA.....	Seattle
Gunn, Helen V, Bus.....	Anacortes	Hamilton, Rachel E, Grad.....	Echo, Ore
Gunnell, Archie, LA.....	Roslyn	Hamley, Charles L, LA.....	Belleveue
Gunnell, Mary B, FA.....	Seattle	Hamley, Frederick G, LA.....	Belleveue
Gurian, Ted, Bus.....	Portland, Ore	Hamlin, Margaret, LA.....	Seattle
Gurney, Magdalene, FA.....	Seattle	Hamlin, Phyllis, LA.....	Seattle
Gustafson, Helen, LA.....	Seattle	Hamman, Roy, Bus.....	Seattle
Gustafson, Ragnar W, Bus.....	Rochester	Hammer, Gunda, Grad.....	Seattle
Gustafson, Rudolph O, For.....	Vancouver	Hammer, Karl B, Engr.....	Seattle
Gustanoff, A L, Engr.....	Seattle	Hammock, Jim, Engr.....	Seattle
Gustavson, Emil G, Law.....	Seattle	Hammond, Allen O, Grad.....	Seattle
Gustin, Helen Enid, LA.....	Monroe	Hammond, Richard N, For.....	Longview
Guth, Earl, Phar.....	Seattle	Hanasus, Fumi A, Bus.....	Seattle
Guth, Louise H, Sci.....	Seattle	Hand, Roger E, LA.....	Seattle
Gutherless, L Edward, Bus.....	Seattle	Handy, Virginia S, Educ.....	Cheney
Guthrie, Elton F, LA.....	Seattle	Haner, Norman W, Engr.....	Wickersham
Guthrie, Katherine V, FA.....	Vashon	Haner, Victor C, Engr.....	Wickersham
Guttormsen, George, Law.....	Everett	Haney, Gerald A, Bus.....	Seattle
Guttormsen, Harold, LA.....	Everett	Haney, Wayne, LA.....	Seattle
Guyer, Dorothea, Edu.....	Seattle	Hang, John M, Educ.....	Bellingham
Gwinn, Ernest, Engr.....	Seattle	Hanigan, Henry, LA.....	Cathlamet
Gyde, James E, Law.....	Wallace, Ida	Hanigan, May R, LA.....	Cathlamet
		Hankins, John H, Bus.....	Seattle
		Hanks, Josephine, FA.....	Seattle
Haapala, V Theo.....	Winlock	Hanley, John J, Grad.....	Cottonwood, Idaho
Haase, Edna L, Sci.....	Seattle	Hanley, Kathryn B, LA.....	Seattle
Hack, George F, LA.....	Seattle	Hanley, Leland, Bus.....	Spokane
Hackett, Clara A, LA.....	Tacoma	Hanley, Myron V, Bus.....	Seattle
Hackman, Fred M, LA.....	Everett	Hanley, M Veronica, LA.....	Seattle
Hackney, Devere, Phar.....	Centralla	Hanley, Robert R, LA.....	Wenatchee
Haddad, Anwar, Engr.....	Seattle	Hanna, J Craig, LA.....	Ontario, Cal
Haddock, Boyd, Bus.....	Earlington	Hanna, Evans A, Bus.....	Wenatchee
Haddon, Joseph E, Sci.....	Bremerton	Hanna, Ralph W, LA.....	Yelm
Haddon, Lawrence, Bus.....	Bremerton	Hannum, Margaret L, LA.....	Mabton
Hadley, Elsie Jane, Bus.....	Seattle	Hans, Bernard W, LA.....	Seattle
Hadsell, Robert L, Bus.....	Everett	Hanschel, Violet, FA.....	Seattle
Haffner, Edward R, Bus.....	Seattle	Hansen, Augusta, Edu.....	Pentwater, Mich
Hagen, Evelyn, LA.....	Bellingham	Hansen, Carl C, Engr.....	Seattle
Hagerty, Don W, Bus.....	Browning, Montana	Hansen, Carl M, Engr.....	Spokane
Haggard, Josephine, LA.....	Maple Falls	Hansen, Helen A, LA.....	Snohomish
Haggett, Dorothy, Grad.....	Seattle	Hansen, George F, Bus.....	Seattle

Hansen, Inga M, LA.....	Port Angeles
Hansen, Julius, LA.....	Manson
Hansen, Nancy J, LA.....	Everett
Hansen, Ralph B, Engr.....	Seattle
Hansen, Wenonah S, LA.....	Seattle
Hanson, Alice C, Grad.....	Seattle
Hanson, A George, Sci.....	Enumclaw
Hanson, Charles F, Bus.....	Enumclaw
Hanson, Corrine, FA.....	Seattle
Hanson, Elsie L, Bus.....	Seattle
Hanson, Glenn, LA.....	Wapato
Hanson, H A Fsh.....	Seattle
Hanson, Harold M, LA.....	Everett
Hanson, Helen, FA.....	Seattle
Hanson, Hilda, LA.....	Seattle
Hanson, James R, Bus.....	Havre, Mont
Hanson, O B, Grad.....	Seattle
Hanson, Orville C, Engr.....	Mount'n Iron, Minn
Hanson, Paul W, FA.....	Ketchikan, Alaska
Hanson, Raymond A, Bus.....	Concordia, Kan
Harbeck, Mrs Alice I, Grad.....	Seattle
Harby, Horace, LA.....	Seattle
Harby, Sam, LA.....	Seattle
Harden, Mabel Z, FA.....	Seattle
Hardin, Margaret Homer, Sci.....	Seattle
Hardy, Martha, LA.....	Seattle
Haring, Robert, Engr.....	Seattle
Harley, C Frederick, Bus.....	Seattle
Harley, Katrina J, FA.....	Seattle
Harley, Mrs Laura P, Bus.....	Seattle
Harley, Violette L, LA.....	Seattle
Harmon, Edward Bentley, Grad.....	Seattle
Harmony, Harold A, Engr.....	Seattle
Harman, M, Elizabeth, LA.....	Seattle
Harney, Gerald E, Engr.....	Seattle
Harras, Gustav, Bus.....	Walla Walla
Harriger, Ralph, Phar.....	Ridgefield
Harriman, Harriett, LA.....	Long Beach, Cal
Harrington, R Emmett, Bus.....	Seattle
Harrington, Geraldine, Sci.....	Seattle
Harrington, Mona A, LA.....	Coupeville
Harrington, Paul G, For.....	Seattle
Harrington, Sarah C, FA.....	Sunnyside
Harris, Charles H, Bus.....	Seattle
Harris, Clinton J, Bus.....	Bellingham
Harris, David M, Sci.....	Seattle
Harris, Eleanor, LA.....	Seattle
Harris, Ernest A, For.....	Central Point, Ore
Harris, Frances V, Bus.....	Seattle
Harris, Gertrude, FA.....	Seattle
Harris, Helen, LA.....	Seattle
Harris, Helen Louise, FA.....	Seattle
Harris, Irene, Sci.....	Ogden
Harris, Isabel, LA.....	Seattle
Harris, John D, Bus.....	Seattle
Harris, John F, LA.....	Seattle
Harris, John H, Jr, Bus.....	Seattle
Harris, Leland S, Grad.....	Seattle
Harris, Lewis, Sci.....	Everson
Harris, Marguerite, LA.....	Seattle
Harris, Marie, LA.....	Clarkston
Harris, Peggy Jane, FA.....	Seattle
Harris, Raymond D, Engr.....	Seattle
Harris, Richard B, Jr, For.....	Seattle
Harrison, Aldine M, LA.....	Tacoma
Harrison, Charles H, LA.....	Seattle
Harrison, Dick, Bus.....	Seattle
Harrison, Elizabeth, Educ.....	Seattle
Harrison, Helen B, FA.....	Seattle
Harrison, Orpha H, FA.....	Seattle
Harrison, Richard, Bus.....	Seattle
Harron, Louise, LA.....	Yakima
Harsch, Alfred E, Law.....	Yakima
Harsh, Orlena, LA.....	Yakima
Harshman, Agnes, Grad.....	Seattle
Hart, Dorothy J, FA.....	Seattle
Hart, Edith L, LA.....	Seattle
Hart, Harold H, LA.....	Issaquah
Hart, Harry L, Engr.....	Seattle
Hart, Harvey, Bus.....	Longview
Hart, Helen T, Grad.....	Spokane
Hart, James P, LA.....	Seattle
Hart, Virginia, FA.....	Seattle
Hartge, Lena A, Grad.....	Seattle
Hartie, George, Bus.....	Seattle
Hartley, Catherine, Bus.....	Salem, Ore
Hartley, Edwin, Bus.....	Los Angeles, Calif
Hartley, Edythe L, LA.....	Vancouver, BC
Hartley, Zelma, FA.....	Hamilton, Mont
Hartline, Jack R, LA.....	Rainier
Hartman, Jeannette, FA.....	Seattle
Hartnagel, Nelson, For.....	Seattle
Hartnagel, Robin N, Bus.....	Seattle
Hartnett, Bob, Bus.....	Seattle
Hartnett, Charles R, Sci.....	Seattle
Hartney, Margaret, LA.....	Seattle
Hartwell, William G, LA.....	Colville
Hartwig, Floyd, LA.....	Seattle
Hartwig, James, Bus.....	Seattle
Harvey, Elsie J, LA.....	Walla Walla
Harvey, Nellie, Libra.....	Seattle
Harvey, Raymond, Bus.....	Seattle
Harwood, F Barton, Fsh.....	Seattle
Hashimoto, Shizuo, Engr.....	Toppenish
Hastert, Louise, FA.....	Aberdeen
Hastings, Constance K, FA.....	Seattle
Hastings, Jessie, FA.....	Seattle
Hatch, Corinne, LA.....	Spokane
Hatch, George E, LA.....	Seattle
Hatch, Orville C, Law.....	Seattle
Hathaway, Earl M, Engr.....	Tacoma
Hathaway, Leslie, FA.....	Seattle
Hauck, Floyd, Engr.....	Seattle
Hauff, Harold A, Engr.....	Seattle
Haug, John, Edu.....	Bellingham
Haugen, Olga J, LA.....	Seattle
Haus, B William, LA.....	Seattle
Haven, Jean, LA.....	Everett
Havighorst, Maryellen, FA.....	Granger
Havland, William I, Bus.....	Seattle
Hawes, Emily J, LA.....	Spokane
Hawkins, Hazel M, LA.....	Everett
Hawkins, L Harold, Sci.....	Bellingham
Hawkins, Jessie K, LA.....	Seattle
Hayashitani, Yutaka, FA.....	Seattle
Haydon, I Albert, Bus.....	Taft, Colorado
Hayes, Bob, LA.....	Seattle
Hayes, Elizabeth G, Bus.....	Seattle
Hayes, Leroy E, Bus.....	Bellingham
Hayes, Margaret, Phar.....	Seattle
Hayes, William M, LA.....	Seattle
Haynes, Charles G, For.....	Everett
Haynes, Nathaniel, Engr.....	Seattle
Hayes, Loyal B, LA.....	Longview
Hawley, Edna T, Grad.....	Seattle
Howard, Allen J, Sci.....	Seattle
Hayward, Alma Ruth, FA.....	Seattle
Hayward, Stanton B, LA.....	Bremerton
Hayward, William S, Bus.....	Seattle
Hazel, George R, Bus.....	Seattle
Hazelquist, Svare E, Engr.....	Hoquiam
Hazen, Margaret, LA.....	Snobomish
Hazen, Oliver M, LA.....	Snobomish
Head, Pauline, FA.....	Seattle
Headrick, Francis L, FA.....	Seattle
Heaney, Marvin G, Bus.....	Butte, Mont
Hearty, Alleen, FA.....	Seattle
Heath, Lawrence, Bus.....	Spokane
Heaton, William D, Jr, Bus.....	Spokane
Hebenstreit, Carl, LA.....	Seattle
Hecht, Ruth, FA.....	Seattle
Hedgcock, Howard W, LA.....	Seattle
Hedges, Elizabeth, FA.....	Waterville
Hedges, Robert, LA.....	Waterville
Hedreen, Carl A, Sci.....	Seattle
Heer, Ralph W, Bus.....	Seattle
Hegdahl, Doris, LA.....	Seattle
Hegg, Agnes Constance, FA.....	Aberdeen
Hegg, Arnold, Sci.....	Aberdeen

Heglund, Ellen, Sci.....	Seattle
Heilman, Robert, Jr, LA.....	Spokane
Helman, Milton, Bus.....	Seattle
Helno, Vivian Esther, LA.....	Seattle
Helnz, Bertrum T, LA.....	Chelan
Helnz, Robert L, FA.....	Los Angeles, Cal
Helse, Irvin F, Grad.....	Valdez, Alaska
Helberg, Robert, Engr.....	Aberdeen
Helbner, Verna, LA.....	Pasadena, Calif
Helliesen, Ruth, LA.....	Seattle
Helphrey, Mary Frances, Bus.....	Spokane
Hemb, Edwin, Bus.....	Dundee, Ill
Hemeke, Verlie, Sci.....	Everett
Hemphill, Elizabeth, Edu.....	Seattle
Hempstead, William E, Bus.....	Seattle
Hemrich, Walter A, Bus.....	Seattle
Hendee, Vivian, LA.....	Seattle
Henderson, Elizabeth, LA.....	Wilkinsburg, Pa
Henderson, Jessie C, LA.....	Seattle
Henderson, Lawrence B, Bus.....	Seattle
Hendricks, John E, FA.....	Chehalis
Hendrickson, Harold M, Engr.....	Seattle
Hendrickson, Wallace, LA.....	Salem, Ore
Henke, Harry, Jr, Law.....	Seattle
Henning, Burt T, Bus.....	Seattle
Henriot, Richard L, LA.....	Seattle
Henry, Cordia John, For.....	Charleston
Henry, Florence, LA.....	Tacoma
Henry, Vincent A, LA.....	Yakima
Henriot, Jane, LA.....	St Louis, Mo
Henry, George B, Law.....	Seattle
Hensler, Lovette, FA.....	Seattle
Hensley, Mercedes H, FA.....	Seattle
Heppenstall, Harold, LA.....	Seattle
Hepperle, Charlotte, FA.....	Dubuque, Ia
Herbert, G A, Grad.....	Seattle
Herbsman, Virginia, Bus.....	Seattle
Herdlick, Jared A, Mines.....	Seattle
Hergert, W Dick, Fsh.....	Seattle
Herman, Helen, FA.....	Ritzville
Hermann, Ida M, LA.....	Seattle
Hermann, Rex Allen, LA.....	Seattle
Hermans, Thomas G, Grad.....	Puyallup
Herod, Mignon, FA.....	Zillah
Herold, Edmund H, Bus.....	Seattle
Herren, Naomi E, LA.....	Aberdeen
Herrold, Betsy Ann, Fsh.....	Ilwaco
Herron, J C, FA.....	Seattle
Hertsche, Marjorie, LA.....	Portland, Ore
Herttua, Vivian M, LA.....	Castle Rock
Hertz, Stuart B, LA.....	LaCenter
Herzog, Harold A, Bus.....	Frances
Hessian, Howard, LA.....	Seattle
Hessler, Mattie, Grad.....	Seattle
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Heuser, Herbert M, Engr.....	Seattle
Hewett, Marvin C, LA.....	Seattle
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Hiatt, Kemp O, LA.....	Seattle
Hibbs, Helen, LA.....	Seattle
Hicker, Eugene, Sci.....	Seattle
Hicklin, Wendell C, For.....	Mabton
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Hicks, Esther, Educ.....	Grandview
Hicks, J F G, Jr, Sci.....	Portland, Ore
Hicks, Martha L, Grad.....	Salem, Ore
Hicks, Retha A, LA.....	Tacoma
Hicks, Victor, Grad.....	Salem, Ore
Hieber, Charles G, LA.....	Willbur
Hidalgo, Miguel, Bus.....	San Fernando, PI
Higgins, Frank L, LA.....	Merced, Cal
Higgins, Kathryn, FA.....	Seattle
Higuchi, Takashi, FA.....	Japan
Hile, Gerald D, LA.....	Seattle
Hilke, Mary E, FA.....	Seattle
Hill, Anne K, FA.....	Seattle
Hill, Arthur R, Bus.....	Seattle
Hill, Elmer A, LA.....	Seattle
Hill, Harriet, FA.....	Seattle
Hill, Iiah J, Bus.....	Naselle
Hill, John B, Law.....	Seattle
Hill, Julius C, Bus.....	Seattle
Hill, Martha E, LA.....	Seattle
Hill, Raymond J, Bus.....	Zillah
Hill, Virgil, Bus.....	Zillah
Hill, Way W, LA.....	Seattle
Hillebrecht, Elsa L, Phar.....	Bellingham
Hillman, Belle, LA.....	Seattle
Hillyer, Theo T, LA.....	Yakima
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Hilzinger, Julia M, Educ.....	Seattle
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Hinckley, Martha, FA.....	Seattle
Hinderer, Winfred E, LA.....	Seattle
Hinde, Edward J, Engr.....	Ridgefield
Hine, Marie L, LA.....	DuQuoin, Ill
Hing, Lily, FA.....	Portland, Ore
Hing, Peter, Engr.....	Portland, Ore
Hing, Ruth, LA.....	Portland, Ore
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Holden, Frances, LA.....	Yakima
Holden, Gordon C, LA.....	Seattle
Holden, Harold, Law.....	Seattle
Holden, Helen B, FA.....	Yakima



Holden, Margaret E, LA. Idaho Falls, Ida  
 Holden, Ruth M, LA. Seattle  
 Holden, William S, LA. Idaho Falls, Ida  
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 Holgate, Charles G, For. Seattle  
 Holland, Alfred M, Phar. Aberdeen  
 Holland, Harriette, FA. Portland, Ore  
 Holland, Noramae, LA. Huston, Idaho  
 Holloway, Audrey V, Sci. Deer Park  
 Holley, Luther, LA. Los Angeles, Cal  
 Hollowell, Rebecca, LA. Seattle  
 Holman, Alice, LA. Seattle  
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 Holmes, Earl M, Law. Seattle  
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 Holmes, G Glenn, Grad. Silver Creek  
 Holmes, Harlan B, Grad. Seattle  
 Holmes, John H, LA. Seattle  
 Holmes, Lionel, LA. Seattle  
 Holmes, Merton, Sci. Centralia  
 Holmes, Robert A, LA. Longview  
 Holmlund, Elof, LA. Aberdeen  
 Holmquist, Anna W, Sci. Lynden  
 Holstrom, John Engr. Seattle  
 Holtsman, Noel E, LA. Vancouver  
 Holt, George A, For. Tacoma  
 Holt, Sarah M, Sci. Deer Lodge, Mont  
 Holte, Lenore, LA. Seattle  
 Holtz, Lillian, LA. Tacoma  
 Holway, Arrlitta D, Sci. Seattle  
 Holway, Theodore W, Sci. Seattle  
 Homburg, George, Engr. Odessa  
 Homer, Dick B, Grad. Seattle  
 Hone, Walton M, Bus. Seattle  
 Hood, John S, Sci. Bellingham  
 Hoof, Clifford E, LA. Bellingham  
 Hooker, Hoarry, LA. Seattle  
 Hooper, Ronald, FA. Seattle  
 Hope, Malfrid A, Sci. Seattle  
 Hopkins, Agnes, LA. Seattle  
 Hopkins, Alden G, Bus. Hartford  
 Hopkins, R Bruce, FA. Seattle  
 Hopkins, Eugenia, FA. Seattle  
 Hopkins, Pauline, LA. Seattle  
 Hopkins, Vera A, FA. Hartford  
 Hopper, Cecil, Engr. Sedro-Woolley  
 Horn, Erling, Engr. Seattle  
 Horn, Carlyle E, Bus. Seattle  
 Horn, Margaret, Sci. Everett  
 Horn, Tory, Engr. Seattle  
 Hornberg, Charles V, Engr. Newcaste  
 Hornbuckle, Stanley, LA. San Jose, Cal  
 Horning, Allan E, Engr. Anchorage, Alaska  
 Horning, Fred F, Grad. Seattle  
 Horowitz, Charles, Law. Seattle  
 Horowitz, Meyer, LA. Seattle  
 Horsfall, Frank L, Jr, LA. Seattle  
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 Horst, Flora M, FA. Seattle  
 Horst, J Hazel, Grad. Seattle  
 Horstman, Elizabeth, LA. Port Angeles  
 Hoshino, Helen, Phar. Pendleton, Ore  
 Hoska, Helen, FA. Tacoma  
 Hostetter, John, Sci. Seattle  
 Hotta, Harry, Engr. Seattle  
 Hough, Francis G, Fsh. Seattle  
 Hough, Ted S, Phar. Snoqualmie  
 Houk, Theodore, Sci. Centralia  
 House, E W, Grad. Quaker City, Ohio  
 Houston, Alice S, Grad. Sherman, Cal  
 Houston, Evelyn L, Sci. Seattle  
 Houston, Leroy W, Bus. Sumner  
 Houx, Mary L, LA. Longview  
 Hoverson, Edwin, LA. Seattle  
 Hoverson, Julius C G, LA. Bellingham  
 Hovind, Harold A, FA. Spokane

Howard, Edwin L, Bus. Stanwood  
 Howard, Mildred A, LA. Stanwood  
 Howard, Ophelia, FA. Anchorage, Alaska  
 Howard, Oscar, Jr, Engr. Joyce  
 Howard, C Wesley, Sci. Lyman  
 Howatt, Alice I, FA. Yakima  
 Howay, Jack, LA. Seattle  
 Howe, Doris, LA. Seattle  
 Howe, Laurence, LA. Waterville  
 Howell, Iras, FA. Seattle  
 Howes, Gertrude, FA. Sheridan, Wyo  
 Howlett, Robert F, Bus. Seattle  
 Hoxsie, Richard C, LA. Huntington Bch, Cal  
 Hrushka, Michael, LA. Seattle  
 Hsieh, Chi-Tai, Bus. China  
 Hsung, Tse Yung, LA. Hunan, China  
 Huang, Shih Chun, LA. China  
 Hubbard, Coy, LA. Endicott  
 Hubbard, Arelina, LA. Auburn  
 Hubbard, Ora, Bus. Kliekitat  
 Hubbard, Ruth M, LA. Auburn  
 Hubbell, Leslie, LA. Spokane  
 Hubbert, May, Sci. Omak  
 Huber, Lester F, LA. Seattle  
 Hubert, Margaret, LA. Butte, Mont  
 Hubley, Ruth, LA. Pasadena, Cal  
 Huddle, Joe A, Engr. Harrington  
 Hudson, Chester A, LA. Seattle  
 Hudson, Lois E, LA. Yakima  
 Hudson, Roberts D, LA. Yakima  
 Hudson, Ruth, FA. Seattle  
 Hue, Ruth, Sci. Pasco  
 Huey, Robert A, FA. Tacoma  
 Huff, Edyth B, LA. Yakima  
 Huff, Elizabeth H, LA. Monroe  
 Huff, Frederick, LA. Seattle  
 Huff, Warren C, For. Bellingham  
 Huffaker, Rosalind, LA. Seattle  
 Huffins, Sherman, LA. Seattle  
 Hughes, L Elwyn, Bus. Bryn Mawr  
 Hughes, James B, Engr. Spokane  
 Hughes, Joseph L, Law. Wenatchee  
 Hughes, Katherine, Sci. Bellingham  
 Hughes, Kirby E, Bus. Seattle  
 Hughes, Lillian O, FA. Spokane  
 Hughes, Margaret C, LA. Tacoma  
 Hughes, Martha E, LA. Tacoma  
 Hughes, Mary A, FA. Seattle  
 Hughes, Owen P, LA. Gig Harbor  
 Huhta, Elmer, LA. Hoquiam  
 Hulet, Howard F, Bus. Seattle  
 Huletz, Edward A, LA. Seattle  
 Huletz, Helen M, LA. Seattle  
 Hull, Bernard, FA. Snohomish  
 Hull, Hazel, LA. Seattle  
 Hull, Ronald E, Bus. Yakima  
 Hullin, Albert E, Bus. Seattle  
 Hulshouser, Margery, LA. Selah  
 Hultgren, Elart F, LA. Sprague  
 Hulvey, John H, Educ. Table Grove, Ill  
 Humes, J Donald, Engr. Tacoma  
 Humes, Tom R, LA. Seattle  
 Humphries, J Orville, LA. Spokane  
 Humphrey, Bernedine M, LA. Seattle  
 Humphrey, John D, Sci. Mabton  
 Humphrey, Omar J, Jr, Bus. Seattle  
 Hunbuckle, Stanley O, Bus. San Jose, Calif  
 Hunner, Richard C, Bus. Spokane  
 Hunner, Wesley L, Bus. Spokane  
 Hunt, Beatrice, LA. Kennedydale  
 Hunt, Frances C, LA. Tacoma  
 Hunt, George, Bus. Spokane  
 Hunt, Ruby H, LA. Kennedydale  
 Hunter, Agnes L, Sci. Seattle  
 Hunter, Campbell, Grad. Seattle  
 Hunter, Charles D, Jr, Sci. Tacoma  
 Hunter, Fred, LA. Spokane  
 Hunter, Keith, Bus. Seattle  
 Hunter, Max, Sci. Seattle  
 Hunter, Robert T, LA. Tulalip

Hunter, S C, Engr.....	Seattle	Jacinto, Victorino N, LA.....	Philippines
Huntington, Virginia, LA.....	Palo Alto, Calif	Jacinto, Vincente, Sci.....	Philippines
Hurd, Elliott B, Bus.....	Seaside, Ore	Jack, Blance Lenore, LA.....	Seattle
Hurd, Guy Wakefield, Edu.....	Puyallup	Jack, Malcolm, Engr.....	Raymond
Hurd, John Henry, LA.....	Seattle	Jack, William M, LA.....	Wenatchee
Hurd, Raymond C, Bus.....	Puyallup	Jackson, Anna Frances, Bus.....	Artesia, NM
Hurlbut, Clarence W, Sci.....	Bellingham	Jackson, Delfer H, Bus.....	Poulsbo
Hurlbut, Frances, LA.....	Thompson Falls, Mont	Jackson, Earl William, LA.....	Ridgefield
Hurlbut, Harold C, Engr.....	Seattle	Jackson, K Elizabeth, Sci.....	Seattle
Hurley, George S, LA.....	Seattle	Jackson, Harold O, Bus.....	Portland, Ore
Hurley, James D, LA.....	Spokane	Jackson, Inez E, FA.....	Anacortes
Hurley, Nora F, FA.....	Seattle	Jackson, Julia, LA.....	Black Diamond
Hursey, Lucile, LA.....	Seattle	Jackson, Kirby E, Grad.....	Nashville, Tenn
Hurst, Ray, Engr.....	Seattle	Jackson, Lola Mae, LA.....	Port Gamble
Hurst, Rea Ruth, LA.....	Spokane	Jackson, Paul J, LA.....	Seattle
Hurwitz, Simon, FA.....	Seattle	Jackson, Kathleen M, Sci.....	Seattle
Husband, William, LA.....	Centralia	Jackson, Roy E, Law.....	Portland, Ore
Husted, Donald, Law.....	Longview	Jackson, Sidney H, LA.....	Oroville
Hutcheson, Betty, LA.....	Gray Harbor	Jackson, Virginia, LA.....	Seattle
Hutcheson, Hugh E, Engr.....	Rosalia	Jacobs, Lillian F, LA.....	Lewiston, Mont
Hutcheson, James M, LA.....	Montesano	Jacobs, Marguerite, LA.....	Seattle
Hutchings, G Kelth, LA.....	Spokane	Jacobs, Maxine, LA.....	Helena, Mont
Hutchings, Thelma, LA.....	Seattle	Jacobs, Nita Margaret, LA.....	Seattle
Hutchins, Lewis R, LA.....	Seattle	Jacobs, Winifred E, Sci.....	Seattle
Hutchinson, George Wilfred, For.....	Seattle	Jacobsen, Agnes, LA.....	Idaho Falls, Ida
Hutchinson, Helen Margery, LA.....	Seattle	Jacobsen, Bernhard, LA.....	Seattle
Hutchinson, Joan, FA.....	Seattle	Jacobsen, Beth, LA.....	Seattle
Hutchinson, Nell, FA.....	Seattle	Jacobsen, Marie, Sci.....	Ellensburg
Hutson, Elizabeth Ann, LA.....	Seattle	Jacobsen, Ruth, LA.....	Long Beach, Cal
Hutson, Helen, LA.....	Seattle	Jacobson, Duncan A, Sci.....	Everett
Hutton, Evelyn I, LA.....	Dayton	Jacobson, Lester E, Engr.....	Seattle
Hwang, Louise, FA.....	Seattle	Jacobson, Mary E, FA.....	Seattle
Hyatt, Doris Eveline, FA.....	Everett	Jacobson, Sam S, LA.....	Seattle
Hyland, Marianne F, LA.....	Seattle	Jaeger, Ethel F, Grad.....	Seattle
Hyland, Mary, FA.....	Seattle	Jaeger, Julius P, Grad.....	Seattle
Hyllengren, Henry, Bus.....	Seattle	Jaeger, Paloma, Sci.....	Honolulu
Hyndman, Beryl K, Jour.....	Victoria, BC	Jaggard, R Kline, LA.....	Seattle
Hynes, Philomena L, Edu.....	Seattle	Jahr, Paul B, Bus.....	Spokane
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Igelsrud, Iver, Sci.....	Seattle	James, Alfred D, LA.....	Seattle
Ihle, Thilda, Educ.....	Newfadden, Minn	James, E Flora, Bus.....	Seattle
Iino, Mitsuo, LA.....	Japan	James, Frank, Jr, LA.....	Seattle
Inouye, Matsana F, Sci.....	Seattle	James, Jack Ryon, Bus.....	Seattle
Imberg, Richard, Bus.....	Seattle	James, Ruth Carolyn, FA.....	Seattle
Impola, John, Jour.....	Cathlamet	James, Winifred, LA.....	Seattle
Imus, H Jerard, Law.....	Kalama	Jamieson, C Ivan, Bus.....	Bellingham
Ines, Narciso Y, LA.....	Philippines	Jamieson, Rita, FA.....	Seattle
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Ingersoll, Agatha, LA.....	Everson	Janeck, Elizabeth F, Sci.....	Yakima
Ingersoll, Oliver R, Law.....	Everson	Janisch, W Dorothy, LA.....	Seattle
Ingersoll, Russell R, LA.....	Seattle	Jansen, Phyllis, LA.....	Seattle
Ingham, Thomas R, Sci.....	Olympia	Jansen, William, For.....	Seattle
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Inskip, A, For.....	McKeesport, Pa	Janson, Erland, Bus.....	Seattle
Ireland, Cornelia S, LA.....	Portland, Ore	Janson, Paul K, LA.....	Seattle
Ireland, Darrel, Bus.....	Seattle	Javatta, Fermin, LA.....	Philippines
Ireland, Gertrude G, LA.....	Seattle	Jayne, Dorothy, FA.....	Olympia
Irwin, Archie, Engr.....	Custer	Jeffery, Harold B, Engr.....	Seattle
Isaac, Elizabeth, LA.....	Seattle	Jeffries, Mary, FA.....	Gallen, Mich
Isaacson, Suzanne E, LA.....	Aberdeen	Jenkins, Lester P, Bus.....	Seattle
Isaminger, Gertrude, LA.....	Seattle	Jenkins, Louise, LA.....	Seattle
Isenhardt, George Boyd, Sci.....	Seattle	Jenkins, Raymond, LA.....	Van
Ishigami, Hana, Bus.....	Bremerton	Jenks, Theodore C, Bus.....	Seattle
Isoom, M D, Bus.....	Seattle	Jennelle, Jack J, Jr, Bus.....	Seattle
Itomitsu, Seiriu, Engr.....	Honolulu	Jenner, Evalene, Engr.....	Arlington
Ivanoff, Nicholas N, Bus.....	Seattle	Jenner, Melvin A, Engr.....	Arlington
Ivarson, Osello, FA.....	Seattle	Jennerson, H L, Engr.....	Seattle
Ivers, Henry T, Law.....	Seattle	Jennings, Elizabeth, LA.....	Seattle
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Iverson, Lyle L, LA.....	Seattle	Jensen, Carl D, Sci.....	Seattle
Iverson, Edward K, Bus.....	Stanwood	Jensen, J Ebbe, Engr.....	Spokane
Iverson, Fred U, Bus.....	Seattle	Jensen, Ellen Marie, Sci.....	Bellevue
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Ives, Luella A, YA.....	Seattle	Jensen, Frederick Henry, Engr.....	Auburn
Izette, Wilma F, Sci.....	Oak Harbor	Jensen, G, Engr.....	Seattle
		Jensen, George G, Engr.....	Bellevue
		Jensen, Gertrude C, LA.....	Raymond
		Jensen, G Leslie, Engr.....	Clearbrook
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Jacinto, Rafael U, LA.....	Philippines		

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Jensen, Margaret Irene, LA.....	Emmett, Ia
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Jensen, Oge Folden, FA.....	Lisabuela
Jensen, Sidney, LA.....	Seattle
Jensen, Theodore, Phar.....	Seattle
Jensen, Thomas, Edu.....	Seattle
Jenson, Marian, LA.....	Seattle
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Jessen, Christine, Sci.....	Seattle
Jessup, James S, LA.....	Bremerton
Jessup, Paul, LA.....	Bellingham
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Jewell, Ray B, Bus.....	Granite Falls
Jewett, Elsie K, Sci.....	Vancouver
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Johnson, Arnold W, Bus.....	Seattle
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Johnson, Cecil W, Engr.....	Seattle
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Johnson, Duer D, Engr.....	Seattle
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Johnson, Grace A F, LA.....	Seattle
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Johnson, Mildred E, Bus.....	Seattle
Johnson, Mildred Emmelyne, FA.....	Seattle
Johnson, Mildred O, Edu.....	Spokane
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Johnson, Raymond G, Engr.....	Seattle
Johnson, Richard Leo, Bus.....	Seattle
Johnson, Robert E, LA.....	Seattle
Johnson, Robert W, LA.....	Everett
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Johnson, Roy W, Bus.....	Puyallup
Johnson, Russell Arnold, LA.....	Seattle
Johnson, Selma J, Bus.....	Richmond Beach
Johnson, Selma O, Bus.....	Seattle
Johnson, Sloane, Bus.....	Vancouver, BC
Johnson, Stanley, For.....	Seattle
Johnson, Verner W, Grad.....	Seattle
Johnson, C Vinston, LA.....	Wakefield, Nebr
Johnson, Virginia C, FA.....	Seattle
Johnson, Wilber, Bus.....	Seattle
Johnson, Willard Carroll, Bus.....	Tacoma
Johnsone, Charles R, LA.....	Ellensburg
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Johnston, Charles H, Bus.....	Klamath Falls, Ore
Johnston, Daniel Harvey, Grad.....	Seattle
Johnston, Henry, LA.....	Seattle
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Johnston, Margaret, LA.....	Seattle
Johnston, Marjorie Dean, FA.....	Seattle
Johnston, Max V, Engr.....	Seattle
Johnston, William R, Sci.....	Seattle
Johnstone, Florence M, Bus.....	Seattle
Johnstone, Harriet R, Grad.....	Seattle
Johnstone, Nita C, LA.....	Seattle
Jolley, Irving, Sci.....	Seattle
Jolliff, Louis, Engr.....	Olympia
Jolly, Elma M, LA.....	Seattle
Jones, Bernice, LA.....	Seattle
Jones, Carol L, FA.....	Honolulu
Jones, Catherine, LA.....	Seattle
Jones, Charlotte A, FA.....	Seattle
Jones, Dorothy A, FA.....	Dayton
Jones, Edwin V, Bus.....	Spokane
Jones, Elisabeth S, Sci.....	Seattle
Jones, J Edwin, Engr.....	Bellingham
Jones, Elizabeth Dorothea, Sci.....	Seattle
Jones, Elizabeth M, FA.....	Seattle
Jones, Elton B, LA.....	Camas
Jones, Genevieve, Grad.....	Yakima
Jones, Hannah, Educ.....	Seattle
Jones, Ivor, Phar.....	Seattle
Jones, Jane Elizabeth, FA.....	Seattle
Jones, Juliette V, Sci.....	Seattle
Jones, Keith F, Bus.....	Winthrop
Jones, Leola Grace, Sci.....	Seattle
Jones, Mildred Elinor, LA.....	Waterville
Jones, Ralph P, LA.....	Seattle
Jones, Richard F, Bus.....	Wenatchee
Jones, Robert A, LA.....	Mt Vernon
Jones, Wilfred, Edu.....	Sunnyside
Jones, Winifred Olwen, LA.....	Seattle
Jordan, Andrew A, LA.....	Seattle
Jordan, John Stanley, LA.....	Seattle
Jordan, Llewellyn S, LA.....	Seattle
Jordan, Paul, Bus.....	Sacramento, Cal
Jorgensen, Betty, FA.....	Seattle
Jorgensen, Paul S, Phar.....	Naches
Joseph, H Burton, For.....	Seattle
Joseph, Jean, Bus.....	Seattle
Joseph, Ruth, FA.....	Seattle
Joslyn, Ruth, LA.....	Seattle
Joubert, E R, LA.....	Seattle
Jourdan, Harry, LA.....	Seattle
Judkins, John R, Bus.....	Seattle
Judson, Elizabeth, FA.....	Seattle
Joyce, R W, Engr.....	Seattle
Judd, Marie, LA.....	Tacoma
Judkins, D H, For.....	Seattle
Judkins, Malcolm F, Engr.....	Seattle
Judy, Edrie R, Sci.....	Seattle
Jue, Alex, FA.....	Seattle
Jue, Willard G, Phar.....	Seattle
Jule, Walter William, Bus.....	Seattle
Jusselt, Alfred, LA.....	Wilkeson
Just, Elsa, LA.....	Seattle
Juvet, Isabel, Bus.....	Poulsbo
Kachlein, George, Jr, LA.....	Tacoma
Kaetz, Aaron G, Grad.....	Seattle
Kahn, Philip, Engr.....	Seattle
Kahn, Helen, Grad.....	Seattle
Kahn, Fred, Jr, LA.....	Oakland, Cal

Kaiser, Gladys G, Sci.....	Seattle
Kaiser, James George, For.....	Mukilteo
Kalenina, Charles O, Law.....	Hoquiam
Kalin, Isadore, Bus.....	Spokane
Kamb, Floyd, LA.....	Mt Vernon
Kamps, Charles Allen, Bus.....	Post Falls, Ida
Kanaya, Toshiji, Sci.....	Seattle
Kane, Cecelia, FA.....	Auburn
Kane, Kathleen, FA.....	Seattle
Kane, Margaret M, Jour.....	La Center
Kanno, Kinji, Engr.....	Seattle
Kao, Tai Yu, Sci.....	China
Kaplan, Alex, LA.....	Seattle
Karlsen, Eric, Sci.....	Spokane
Karlsen, Robert, Bus.....	Spokane
Karr, Leighton, LA.....	Seattle
Karr, Payne, LA.....	Seattle
Karrer, Lawrence E, Engr.....	Seattle
Karschner, Warner M, Grad.....	Puyallup
Kasch, Mary A, LA.....	Anacortes
Kashivagi, S G, Phar.....	Seattle
Kassebaum, Karl F, LA.....	Seattle
Kasson, Dorothy T, LA.....	Tacoma
Katayama, Elmer, Bus.....	Seattle
Katz, Leo, LA.....	Seattle
Katzmiller, Rosalie D, LA.....	Seattle
Kauter, John, LA.....	Seattle
Kaufman, Bert S, LA.....	Concrete
Kaufman, Doris, Sci.....	Seattle
Kaufman, Florence, Sci.....	The Dalles, Ore
Kaynor, Gilbert, LA.....	Ellensburg
Kearns, Mary M, Sci.....	Spokane
Keeler, E C, Engr.....	Seattle
Keene, Mildred Y, Educ.....	Seattle
Kehrli, Walter M, LA.....	Kent
Kellholtz, Ralph, Engr.....	Seattle
Keith, Elva, LA.....	Seattle
Keith, Ted, Engr.....	Battle Ground
Kelez, George B, LA.....	Seattle
Kelez, Marion, FA.....	Seattle
Kelleher, Marion J, LA.....	Seattle
Keller, Harold C, Bus.....	Tacoma
Keller, Jack D, LA.....	Seattle
Kelley, Albert H, LA.....	Seattle
Kelley, Blanche, FA.....	Seattle
Kelley, Curtis, Grad.....	Seattle
Kelley, Louise Valverde, Grad.....	Everett
Kelley, Thomas I, Engr.....	Seattle
Kelley, Warren Thomas, Engr.....	Fall City
Kellogg, Genevieve F, LA.....	Seattle
Kellogg, Harold E, Bus.....	Seattle
Kellogg, Marian, LA.....	Hoquiam
Kellogg, Martin V, Bus.....	Seattle
Kellogg, Orlo B, Law.....	Seattle
Kellogg, Ruth, LA.....	Seattle
Kelly, Edgar, Phar.....	Seattle
Kelly, Emmet P, Engr.....	Seattle
Kelly, Eugene A, LA.....	Walla Walla
Kelly, Evelyn Lavene, Sci.....	Seattle
Kelly, Georgia, LA.....	Seattle
Kelly, Jack Michael, Engr.....	Seattle
Kelly, Jean Mary, LA.....	Tacoma
Kelly, Virginia, LA.....	Walla Walla
Kemp, L Maurine, FA.....	Oto, Ia
Kemper, Phyllis J, Edu.....	Seattle
Kendler, Helen, LA.....	Seattle
Kennedy, Don W, Bus.....	Seattle
Kennedy, Elizabeth, LA.....	Seattle
Kennedy, Joseph, Jr, LA.....	Tacoma
Kennedy, Kathryn, LA.....	Seattle
Kennedy, Marion E, LA.....	Seattle
Kennedy, Patricia Lou, FA.....	Seattle
Kennedy, Peter James, LA.....	Fe Ell
Kennedy, Wesley M, Engr.....	Seattle
Kenny, J B, Engr.....	Victoria, BC
Kent, Omer James, LA.....	Walla Walla
Kent, Ramon L, Engr.....	Seattle
Kenyon, Ethel Mae, LA.....	Kirkland
Kenyon, Juanita, Sci.....	Bremerton
Kenyon, Margaret T, Sci.....	Bremerton
Keplinger, Laurence M, Law.....	Bellingham
Keppel, James L, Sci.....	Seattle
Keppler, Leonard G, Phar.....	Bellingham
Kergan, Phyllis, LA.....	Seattle
Kernohan, Frank, LA.....	Bremerton
Kerns, Homer, Engr.....	Seattle
Kerns, Ray, Phar.....	Seattle
Kerr, William, Bus.....	Seattle
Kerrigan, George, LA.....	South Bend
Kerrigan, Leslie W, LA.....	Seattle
Kerry, Albert S, Jr, LA.....	Seattle
Kerschner, Cleo, Fsh.....	Centerville, Iowa
Kerzie, August F, Engr.....	Seattle
Kessler, Rhea, FA.....	Seattle
Ketcham, Dorothy, LA.....	Seattle
Ketcham, Edward K, LA.....	Seattle
Kettenbach, Wilhelmina, FA.....	Spokane
Kettenring, Elizabeth E, Bus.....	Vancouver
Kettenring, Fred M, Jr, Mines.....	Vancouver
Kettenring, Robert L, Engr.....	Seattle
Khoroff, V, Engr.....	Seattle
Kibbe, Merle H, FA.....	Bellingham
Kieber, Donna, FA.....	Portland, Ore
Kidd, Wm R, For.....	Seattle
Kidder, Eleanor, LA.....	Boise
Kieburz, John R, For.....	Seattle
Kiehl, Harold E, Bus.....	Livingston, Mont
Kiehlbauch, Howard, Sci.....	Sweet Grass, Mont
Kielpinsky, Joseph T, LA.....	Camas
Kienast, Vera, LA.....	Bellingham
Kienholtz, Edward G, Edu.....	Marysville
Kilgas, Carl A, Bus.....	Puyallup
Kilgore, Carleton V, LA.....	Seattle
Kilkenny, William P, Bus.....	Heppner, Ore
Kilkenny, Rose, FA.....	Heppner, Ore
Kilborn, L E, Bus.....	Everett
Killen, Evelyn F, LA.....	Seattle
Killen, Francis G, LA.....	Lowell
Kilworth, Ruth J, LA.....	Seattle
Kilworth, Wesley, LA.....	Seattle
Kim, Teh Soor, Engr.....	Korea
Kimball, Orrin H, LA.....	Seattle
Kimball, Rosalie L, LA.....	Seattle
Kimball, Stanley G, Educ.....	Methow
Kimball, William A, LA.....	Tacoma
Kimball, William B, Jr, LA.....	Seattle
Kimmel, Evelyn, LA.....	Spokane
Kimpe, William A, Sci.....	Seattle
Kimura, Tadao, LA.....	Seattle
Kindred, Grace, FA.....	Seattle
King, Eloise D, Sci.....	Green River, Utah
King, Esther, LA.....	Seattle
King, Esther E, Grad.....	Vancouver, BC
King, Harold G, Law.....	Walla Walla
King, Jean Paul, LA.....	Tacoma
King, Robert M, LA.....	Seattle
King, Waldo T.....	Green River, Utah
Kingman, Gerben, Engr.....	Oak Harbor
Kingman, M Keith, LA.....	Chelan
Kingston, George R, Sci.....	Seattle
Kingston, Ray M, LA.....	Seattle
Kingston, Ross N, LA.....	Seattle
Kinkade, Ward N, LA.....	Forsyth, Mont
Kinkad, J Calvin, Engr.....	Toledo
Kinne, Orris I, Bus.....	Selah
Kinney, Gladys V, Bus.....	Seattle
Kinsey, Darius, Jr, Engr.....	Seattle
Kinsey, Doris, FA.....	Seattle
Kinsey, Helen E, LA.....	Seattle
Kinsey, Ronald C, LA.....	Seattle
Kinzel, Maurice W, Law.....	Seattle
Kinzie, John A, LA.....	Poland
Kirk, Charles G, LA.....	Seattle
Kirk, Paul R, Bus.....	Tacoma
Kirker, Ruth, LA.....	Toppenish
Kirkham, M Bernice, Grad.....	Seattle
Kirklin, Harold, Sci.....	Seattle
Kirklin, Lee I, Educ.....	Seattle
Kirkpatrick, Dahl J, For.....	Randle
Kirner, John F, Bus.....	Sequim
Kirsch, John, Bus.....	Seattle
Kirsch, Lucille B, Bus.....	Everett

Kirshner, Gussie, Sci.....Seattle  
 Kirshner, Ora, LA.....Portland, Ore  
 Kiser, Rufus W, For.....Wenatchee  
 Kistler, Daniel D, Grad.....Everett  
 Kitayama, Hideo, FA.....Seattle  
 Kittell, George H, Libr.....Seattle  
 Kizer, Edith, LA.....Spokane  
 Klamke, Alexis G, Sci.....Seattle  
 Klavon, Marion, Bus.....Roslyn  
 Klein, Helen, FA.....Seattle  
 Kleinlein, Esther, Sci.....Seattle  
 Kleinlein, Max, Fsh.....Seattle  
 Kleinlein, Oscar K, Engr.....Seattle  
 Kleinlein, Vera, LA.....Seattle  
 Klemme, Marvin, For.....Bessie, Okla  
 Klemptner, Ellen, LA.....Seattle  
 Klingner, Cecelia P, LA.....Port Townsend  
 Klorin, Mark, LA.....Harbin, China  
 Klocke, Sylvia, LA.....Lynden  
 Klose, Hildegard, LA.....Missoula, Mont  
 Kloth, Marian J, FA.....Seattle  
 Klumpp, Lloyd E, Bus.....Seattle  
 Knapton, Florence M, Sci.....Seattle  
 Knapp, George E, Engr.....Harrington  
 Kneeland, Earlene, LA.....Shelton  
 Knight, Annalou, LA.....Seattle  
 Knight, Homer, FA.....Welser, Idaho  
 Knipe, E Edward, LA.....Burlington  
 Knowles, Chad, Bus.....Seattle  
 Knowlton, Charlotte J, Edu.....Seattle  
 Knox, Edith Patricia, FA.....Vancouver  
 Knox, Rozella, LA.....Portland, Ore  
 Knudsen, Arthur, Fsh.....Seattle  
 Knudsen, John T, Phar.....Spokane  
 Knutsen, Clarence M, Bus.....Everett  
 Knutson, Mary Louise, LA.....Seattle  
 Koda, Katsuhiko, Engr.....Seattle  
 Kobe, Susumu, Grad.....Japan  
 Koch, Edwin, LA.....Seattle  
 Koch, Gertrude C, FA.....Portland, Ore  
 Koch, Samuel, Grad.....Seattle  
 Kochevar, Dorothy L, LA.....Enumclaw  
 Koehne, Marion Priscilla, Sci.....Seattle  
 Koen, Josephine Roycroft, Edu.....Prosser  
 Koenigh, John F, Phar.....Tacoma  
 Koenigsberg, Leo M, Law.....Seattle  
 Koopp, Iris, LA.....Seattle  
 Koester, Anthony C, LA.....Sunnyside  
 Koitabashi, Chika, FA.....Seattle  
 Koller, R A, Engr.....Vancouver, BC  
 Kolleen, Lawrence, Fsh.....Seattle  
 Kolstad, M Beatrice, Sci.....Seattle  
 Kolstad, Claire, LA.....Seattle  
 Kolstad, Leo S, Sci.....Seattle  
 Kondo, Tokuo, Bus.....Seattle  
 Konzo, Seichi, Engr.....Tacoma  
 Kopika, Irja, FA.....Seattle  
 Koppang, G A, Bus.....Kalispell, Mont  
 Korin, Herman James, Sci.....Seattle  
 Kortman, F Ellard, Forr.....Seattle  
 Kossiakoff, Ivan T, Engr.....Seattle  
 Koth, Everett, Sci.....Odessa  
 Krætz, Earl, Bus.....Arlington  
 Kraft, Edwin A, Grad.....Seattle  
 Krakenberg, Myra, FA.....Kirkland  
 Kramer, Arthur, Engr.....Ritzville  
 Kramer, Emily J, Grad.....Seattle  
 Kramer, Ferdinand, LA.....Ritzville  
 Krangnes, Bert, Sci.....Mt Vernon  
 Kranzoff, Harry, FA.....Seattle  
 Kraus, Leroy, Bus.....Vancouver  
 Krause, August L, Engr.....Seattle  
 Kravik, Knut E, LA.....Everett  
 Kreger, G H, Engr.....Tacoma  
 Kreidler, Dorothy, LA.....Seattle  
 Kreidler, Myron, FA.....Tacoma  
 Krelshar, Dennis, FA.....Seattle  
 Kretschmar, Luella L, Grad.....College Place  
 Kretsinger, Helen M, LA.....Seattle  
 Krieger, Henry, Bus.....Seattle  
 Kriegel, W, Engr.....Seattle

Kroetch, Gertrude C, FA.....Spokane  
 Krogh, Alice Elizabeth, LA.....Seattle  
 Krogstad, John, LA.....Seattle  
 Krogstad, Ralph, LA.....Seattle  
 Krom, David M, LA.....Aberdeen  
 Kropp, Henry, J, LA.....Seattle  
 Krouse, Marjorie A, FA.....Seattle  
 Krueger, Harold A, Sci.....Wausau, Wis  
 Kruse, Lloyd John, FA.....Seattle  
 Kuehner, Vera Mae, LA.....Seattle  
 Kugler, Louise, FA.....Seattle  
 Kuhfuss, Helen, Sci.....Wenatchee  
 Kullberg, Jule, FA.....Seattle  
 Kunde, Norman F, Sci.....Minneapolis, Minn  
 Kuniholm, Eugene, Sci.....Seattle  
 Kuntze, Emmet L, Bus.....Seattle  
 Kurokawa, Fumi, LA.....Seattle  
 Kurosaka, Yasu, FA.....Seattle  
 Kurtzer, Laverne E, LA.....Seattle  
 Kushi, Makie, FA.....Seattle  
 Kuwahara, Tohrak, Sci.....Japan  
 Kuykendall, Jerome K, LA.....Pomeroy  
 Krushelnitzky, Vladimir, Grad.....Seattle  
 Kwapil, Dorothy L, LA.....Seattle  
 Kwapil, Richard, Bus.....Seattle  
 Kviatkovsky, Boris V, Engr.....Russia  
 Kyle, James H, LA.....Seattle  
 Kynell, Hurben, Bus.....Anacortes

LaBrache, Wendell C, LA.....San Francisco, Cal  
 LaChapelle, Paul A, LA.....Los Angeles, Cal  
 Lackey, Natella M, LA.....Seattle  
 Lackstrom, Elmer, LA.....Seattle  
 LaFarge, Charles A, LA.....Seattle  
 Lafranchi, Vincent, Engr.....Seattle  
 LaFromboise, Clarence, Grad.....Enumclaw  
 Lager, Maxwell G, Sci.....Ironwood, Mich  
 Lahey, Arthur L, For.....Snoqualmie Falls  
 Laidlaw, Lucile, LA.....Puyallup  
 Laigo, Robert, Sci.....Philippines  
 Lake, Clark B, Engr.....Seattle  
 Lake, Florence, LA.....Spokane  
 Lake, Lucile, LA.....Spokane  
 Lamb, B V, Grad.....Seattle  
 Lamberton, Bertha, Sci.....Seattle  
 Lambert, Jack Warren, LA.....Sumas  
 Lamont, Vivian, Grad.....Seattle  
 LaMontagne, Frances, LA.....Kirkland  
 Lamoreux, Dorothy, FA.....Seattle  
 Lamping, Rolland D, Fsh.....Seattle  
 Lamprey, Headlee, Engr.....Seattle  
 Lamson, Robert, Engr.....Tacoma  
 Lancour, A Harold, LA.....Seattle  
 Landauer, Joseph, Bus.....Seattle  
 Landech, Mabel, Sci.....Blaine  
 Landech, Violet, FA.....Blaine  
 Landon, Herbert, LA.....Seattle  
 Landon, L E, Sci.....Tacoma  
 Landraf, Carl H, Engr.....Little Rock  
 Landreth, Harold D, LA.....Beardan  
 Landstrom, Lorraine, LA.....Seattle  
 Lane, W Byron, Law.....Seattle  
 Lane, Edna, FA.....Wilson Creek  
 Lane, Herbert J, Bus.....Aberdeen  
 Lane, Paul, Sci.....Vancouver  
 Lane, William C, LA.....Seattle  
 Lang, Howard M, FA.....Seattle  
 Lang, Joseph W, Engr.....Yakima  
 Lang, Paul Minor, Sci.....Seattle  
 Lange, Bernice, Engr.....Seattle  
 Lange, Dayma, Grad.....Coulee  
 Lange, Lulu, LA.....Mandon, ND  
 Lange, Ted W, LA.....Wenatchee  
 Langdon, Bess D, FA.....Clarks Fork, Ida  
 Langford, Fred T, Engr.....Spokane  
 Langosy, Alajandro, LA.....Philippines  
 Langridge, Ellen G, Bus.....Olympia  
 Langridge, Robert T, LA.....Olympia  
 Langsdorf, Gaynor H, Engr.....Vancouver

Lanken, Nicolas, Engr.....	Siberia
Lanonette, Louis A., Bus.....	Seattle
Lanser, Marie, LA.....	Seattle
Lant, J Glen, Engr.....	Bellingham
Larcom, Lyle, Sci.....	Seattle
Larkin, Edward J, Bus.....	Aberdeen
Larkin, Lucretia, Grad.....	Seattle
Larkin, William J, Engr.....	Seattle
Larned, Grant, LA.....	Seattle
Larrick, Lewis, Sci.....	Enid, ND
Larsen, Alf M, Bus.....	Seattle
Larsen, Lloyd, Engr.....	Portage
Larsen, Louis, Sci.....	Lynden
Larsen, Ruth, LA.....	Seattle
Larsen, Vernon, For.....	Alderwood Manor
Larson, Dave R, Bus.....	Seattle
Larson, Eleanor, LA.....	Seattle
Larson, Esther, LA.....	Seattle
Larson, Harriet, LA.....	Seattle
Larson, Ilene, LA.....	Seattle
Larson, Marjorie, LA.....	Spokane
Larson, Norman F, Engr.....	Port Townsend
Larson, Oza J, LA.....	Seattle
Larson, Richard C, Bus.....	Seattle
Larson, Virgil L, Engr.....	Los Angeles, Cal
Larson, Wilbur, FA.....	Seattle
Lasater, Jane, LA.....	La Center
Lesnier, Evelyn L, LA.....	Seattle
Lassek, Arthur M, Sci.....	Seattle
Lasselle, Evangeline, FA.....	Aberdeen
Lathonen, J Allison, Bus.....	Aberdeen
Latta, Robert N, Bus.....	Seattle
Laube, DeLora L, LA.....	Seattle
Laube, Florence, LA.....	Seattle
Laubscher, Ruth, LA.....	Seattle
Lauder, Don, Bus.....	Seattle
Lauer, C E, Sci.....	Seattle
Lauri, W A, Sci.....	Seattle
Lauzon, Romuald K, For.....	Lowell
Lavers, Theodore, Engr.....	Seattle
LaVigne, Dorothy, LA.....	Seattle
LaVille, Ralph L, Sci.....	Seattle
LaVine, Gladys, LA.....	Seattle
Lawless, Ruth, Sci.....	Seattle
Lawrence, Charles W, Grad.....	Seattle
Lawrence, Ednah, LA.....	Frosser
Lawrence, Julia, Sci.....	McIntosh, SD
Lawrence, Walter A, LA.....	Tacoma
Laws, Charles H, LA.....	McCormick
Lawshe, Dorothy, FA.....	Seattle
Lawson, Donald C, Bus.....	Tacoma
Lawson, Sara, LA.....	Seattle
Lawton, Ruth M, FA.....	Seattle
Lawwill, Donn F, Law.....	Montesano
Layton, Clarence B, LA.....	Tacoma
Layton, Edwin G, Sci.....	Tacoma
Layton, Mildred, Sci.....	Tacoma
Lea, Richard, LA.....	Seattle
Lea, William O, Bus.....	Seattle
Leach, Grace B, FA.....	Seattle
Leach, Shirley W, Bus.....	Olympia
Leaf, Karl, Sci.....	Seattle
Leak, Gladys, Sci.....	Seattle
Leahy, Lester, Phar.....	Wenatchee
Leak, Lloyd, Bus.....	Tacoma
Leake, Althea, LA.....	Seattle
Leamon, D Thomas, LA.....	Seattle
Learned, Allan M, LA.....	Hadlock
Leas, Donald R, LA.....	Index
Leathers, L Arthur, LA.....	Vancouver
Leavitt, Maxwell D, LA.....	Seattle
Leavitt, Juanita, Bus.....	Seattle
LeBlond, Nedra, LA.....	Seattle
LeCompte, Geo A, Sci.....	Shelton
LeCompte, M, Bus.....	Seattle
Ledlerle, Charles, Jr, Bus.....	Sedro-Woolley
LeDoux, Donald R, For.....	Tacoma
Lee, Arthur L, Fah.....	North Bend
Lee, S Allen, Bus.....	Vancouver, BC
Lee, Benjamin, Bus.....	Portland, Ore
Lee, Sam, Sci.....	Seattle
Lee, Frank Andrew, Grad.....	Seattle
Lee, Gladys, Edu.....	Goldendale
Lee, James E, LA.....	Seattle
Lee, John H, LA.....	Chelan
Lee, Judith, Grad.....	Seattle
Lee, R Leo, Phar.....	Colfax
Lee, Robert, FA.....	Hawaii
Lee, Virginia J, FA.....	Seattle
Lee, Yone Ming, Bus.....	Seattle
Leebhoft, Herbert, LA.....	Seattle
Leech, Paul, Bus.....	Los Angeles, Cal
Leedy, Virginia, Bus.....	Wenatchee
Lees, Morrison Jane, LA.....	Seattle
Lefohn, Edith Eunice, LA.....	Seattle
Legg, Audrey, LA.....	Seattle
Lehde, Constance, LA.....	Seattle
Lehner, Frank E, For.....	Spokane
Lehman, Arnold J, Grad.....	Seattle
Leib, Rachel S, Sci.....	Seattle
Leldy, Eugene, Bus.....	Toppenish
Leledecke, Margene, FA.....	Kent
Leighton, Roy S, Bus.....	Seattle
Leighly, Earl, Bus.....	Seattle
Leik, Mary Frances, Edu.....	Seattle
Leike, Helen C, Bus.....	Seattle
Leissler, Frederick, FA.....	Lake Forest Park
Leitch, Marjorie, FA.....	Seattle
Leithead, Robert C, Engr.....	Seattle
Leland, Ruth A, LA.....	Seattle
Lemcke, Agnes, LA.....	Seattle
Lemenager, Ray, Bus.....	Seattle
Lemick, Michael, Bus.....	Kellogg, Ida
Lemon, Doris, Sci.....	Waterville
Lemp, Catherine, LA.....	Boise, Ida
Lenau, Reburn D, Sci.....	Spokane
LeNeve, Nina, Sci.....	Seattle
Lenfest, Coburn, Sci.....	Shohomish
Lennox, Duncan S, Bus.....	Honolulu
Lensrud, Mabel, LA.....	Seattle
Leon, Albert H, Phar.....	Seattle
Leon, Gordon H, Sci.....	Seattle
Leonard, S Leo, LA.....	Seattle
Leong, Stephen, LA.....	Portland, Ore
Lepper, Mildred E, Bus.....	Seattle
Lermond, Helen, LA.....	Seattle
Leah, Anna Viola, LA.....	Ellisport
Leslie, Anna, LA.....	Seattle
Leslie, Gladys, LA.....	Seattle
Leslie, Marian, LA.....	Spokane
LeSourd, Francis A, Bus.....	Seattle
Lester, Edith F, FA.....	Seattle
Lester, Louise M, LA.....	Seattle
Letson, Charles F, Engr.....	Arlington
Lev, Lester L, Law.....	Los Angeles, Cal
Levinson, Sol, Phar.....	Seattle
Levitin, Abe, Engr.....	Seattle
Levitin, Isaac, Bus.....	Seattle
Levitin, Joseph, Engr.....	Russia
Levitin, Morris, Engr.....	Seattle
Levy, Carolyn, LA.....	Seattle
Levy, Harold P, LA.....	Seattle
Levy, Leah B, LA.....	Seattle
Levy, Leah Fay, FA.....	Seattle
Levy, Richard R, Bus.....	Seattle
Lewis, Adelaide, LA.....	Seattle
Lewis, Charles H, Phar.....	Seattle
Lewis, Clarke R, For.....	Seattle
Lewis, Clyde L, LA.....	Raymond
Lewis, Edward M, Engr.....	Seattle
Lewis, Elleen, Grad.....	Seattle
Lewis, Hannah W, LA.....	Portland, Ore
Lewis, Hunter C, Grad.....	Seattle
Lewis, John A, Bus.....	Seattle
Lewis, John Baker, LA.....	Seattle
Lewis, Lloyd, Engr.....	Seattle
Lewis, Louise E, LA.....	Seattle
Lewis, Mercedes, LA.....	Tacoma
Lewis, Myra W, Sci.....	Seattle
Lewis, Norman, LA.....	Spokane
Lewis, Palmer G, Engr.....	Seattle
Lewis, Porter, LA.....	Seattle

Lewis, Ruth, L.A.	Seattle
Lewis, Spencer L, Bus.	Seattle
Lewkowitz, Dorothy, FA.	Spokane
Leyman, Garnett, FA.	Seattle
Leymon, Margaret, L.A.	Seattle
Libbee, Frances, FA.	Seattle
Libby, Annie E, Sci.	Kelso
Libert, Norman F, Phar.	Spokane
Liebes, George, Jr, Bus.	Seattle
Liersay, J L, L.A.	Seattle
Lignell, Bina, Sci.	Seattle
Lillquist, Elma C, L.A.	Seattle
Lind, Anna R, L.A.	Mt Vernon
Lind, Carita C, L.A.	Seattle
Lind, Helga C, L.A.	Seattle
Lindahl, Martin L, Grad.	Mt Vernon
Lindberg, Caroline, L.A.	Tacoma
Lindberg, Fred E, FA.	Seattle
Lindblad, Emil C, Bus.	Bellingham
Lindblom, Roy E, Grad.	Seattle
Linde, Carl A, Engr.	Puyallup
Linderman, Paul B, L.A.	Bellingham
Lindgren, Bert E, Fsh.	Woodinville
Lindh, Alton J, Sci.	Seattle
Lindh, Nels G, For.	Sultan
Lindholm, Beulah, Sci.	Seattle
Lindholm, George F, L.A.	Tacoma
Lindley, William, L.A.	Olympia
Lindman, Bertram H, Engr.	Seattle
Lindsay, Ralph, For.	Olympia
Lindsey, Flavilla C, L.A.	Seattle
Lindsey, Joaquin, For.	Stanwood
Lindstrom, O William, Bus.	Tacoma
Lindstrom, Hilding C, Phar.	Seattle
Ling, Sarah E, Sci.	Omak
Ling, Setek, Fsh.	China
Link, Milton A, Bus.	Seattle
Linn, Vernon, Bus.	Sumas
Linse, Sadie E, Sci.	Yakima
Linsley, Jane, L.A.	Du Pont
Linton, Geraldine, L.A.	Seattle
Llavlille, Clyde W, L.A.	St John
Lippa, Clara M, L.A.	Seattle
Lippincott, Crispin, L.A.	Seattle
Lippmann, Edith, L.A.	Seattle
Elston, Thomas R, Sci.	Orillia
Litchfield, Wallace H, FA.	Seattle
Litsey, Virginia, L.A.	Seattle
Littlefield, Lena, Grad.	Seattle
Little, Herbert, Grad.	Seattle
Lively, Morris U, Grad.	Seattle
Lively, Philip M, Bus.	Portland, Ore
Livewley, Ethel W, L.A.	Seattle
Llewellyn, Fred W, Bus.	Seattle
Lloyd, Edna B, Educ.	Seattle
Loan, Clarence W, Phar.	Seattle
Lockard, Louise, L.A.	Seattle
Locke, Clara B, Jour.	Everett
Lockwood, James B C, Bus.	Seattle
Lockwood, Marie, L.A.	Seattle
Loder, Adelaide F, L.A.	Sheridan, Wyo
Loe, Elsie, L.A.	Seattle
Loe, Walter, Bus.	Seattle
Lofgren, Frederick V, Grad.	Seattle
Lofgren, Theo A, Engr.	Seattle
Logan, Florence L, Grad.	Seattle
Logan, Lorna, L.A.	Seattle
Logan, Marjorie, Sci.	Seattle
Logg, Florence M, Phar.	Seattle
Lohman, Robert W, Engr.	Seattle
Lohse, Dorothy E, Bus.	Seattle
Lohse, Louise, L.A.	Seattle
Loken, Clarice, FA.	Seattle
Lombard, Eunice, L.A.	Yakima
Lombardine, Estelle, L.A.	Seattle
Loncke, Bertha, Bus.	Sumner
Loncke, Madeleine, Bus.	Sumner
London, Jessie, L.A.	Seattle
Lonergan, Thyra M, Grad.	Seattle
Loners, Edwin, Engr.	Seattle
Loners, Harry, FA.	Seattle
Long, James G, Sci.	Seattle
Long, Kathyrine, L.A.	Seattle
Long, Lewis, L.A.	Seattle
Long, Margaret, L.A.	Seattle
Long, Robert E, L.A.	Spokane
Long, Stanley B, Law.	Chehalis
Longenbaugh, May M, L.A.	Seattle
Lonheim, Alton M, L.A.	Seattle
Lonon, David, L.A.	Longview
Lonon, Joseph, L.A.	Kelso
Loosaroff, Victor, Fsh.	Seattle
Lopp, Alice M, Sci.	Seattle
Lopp, Ellen K, L.A.	Seattle
Lopp, Mary, L.A.	Seattle
Lorah, E A, Engr.	Seattle
Lorah, James R, Grad.	Seattle
Lord Helen E, L.A.	Olympia
Lord, Marion, Sci.	Yakima
Lord, Robert B, L.A.	Mt Vernon
Lorer, Joe M, Bus.	Clarkston
Loring, Amelia, L.A.	Stevenson
Lormor, Larline, FA.	Seattle
Loucks, Arthur B, L.A.	Seattle
Louge, Dick W, Sci.	Seattle
Lough, Sydney, Jr, Engr.	Seattle
Louie, Stanley, Phar.	Seattle
Love, Ione, FA.	Snohomish
Love, Vernon, Bus.	Sultan
Lovegren, Lloyd, FA.	High Point
Lovell, Edward, Sci.	Richmond, Va
Lovering, Eleanor A, Bus.	Seattle
Lovering, Marian, L.A.	Seattle
Loving, Eleanor, Sci.	Camp Lewis
Loving, Lucille, Sci.	Burlington
Loving, Marianne, L.A.	Camp Lewis
Lowman, V C, Grad.	Seattle
Lowary, T A, Bus.	Polson, Mont
Lowe, Carl M, L.A.	Arlington
Lowenstein, Bernard, Bus.	Seattle
Lowrie, Ruth, Sci.	Seattle
Lowry, Edmund, Bus.	Chehalis
Lowry, Franklin N, Educ.	Spokane
Lowry, James K, Bus.	Seattle
Lowry, Lewis, Engr.	Seattle
Lucas, Clarence, Fsh.	Seattle
Lucas, Eustaquio L, Engr.	Philippines
Lucas, Marcelo M, Bus.	Philippines
Lucas, Marian, Sci.	Victoria, BC
Lucas, Oscar C, Sci.	Seattle
Lucht, William, Jr, Law.	Spokane
Lucken, Dorothy, Sci.	Minneapolis, Minn
Lucker, John T, Grad.	Salem, Ore
Luckerath, Carl, Law.	Seattle
Ludington, Kathryn, L.A.	Wenatchee
Ludwig, E F, Engr.	Seattle
Ludy, Phyllis, Sci.	Seattle
Luff, Elmo, Sci.	Olympia
Lukes, Janet, L.A.	Seattle
Lum, Jackson, Bus.	Shanghai, China
Lumang, Dominador, Sci.	Philippines
Lumbard, Roy M, L.A.	Seattle
Lund, Curtis W, Engr.	Seattle
Lund, Esther, L.A.	Spokane
Lund, Florence, L.A.	Seattle
Lund, John G, Law.	Seattle
Lund, Paul N, L.A.	Spokane
Lund, Robert E, Bus.	Spokane
Lunde, Alfred, Sci.	Douglas, ND
Lunde, Helen, Sci.	Poulsbo
Lunde, Margarette L, FA.	Seattle
Lundkvist, Lyllis D, FA.	Seattle
Lundstrom, Herbert F, Engr.	Seattle
Lundy, Oliver, Educ.	Richardson
Lunn, Lois, FA.	Seattle
Lunnum, Knut, For.	Silvana
Lurie, Manuel A, Law.	Seattle
Luse, Vera M, Grad.	Spokane
Lutey, W Glen, L.A.	Seattle
Luttermann, Byron, L.A.	Seattle
Luthans, Rudolph C, For.	Scribner, Neb
Lutz, Helen, FA.	Seattle

Lux, Lillian E L, FA.....	Wenatchee
Lycargus, Leo A, Engr.....	Hawaii
Lyman, Byron, LA.....	Seattle
Lynch, Elizabeth, LA.....	Seattle
Lynch, Herbert C, LA.....	Yakima
Lynch, Margaret J, LA.....	Yakima
Lynch, Patricia G, Jour.....	Seattle
Lynch, Theodora R, LA.....	Seattle
Lynn, Austin, Bus.....	Seattle
Lyons, Ann M, LA.....	Walla Walla
Lyons, Mary, FA.....	Seattle
Lyons, Mary L, FA.....	Walla Walla
Lyst, Miriam, FA.....	Elwood, Ind
Lytel, Richard E, FA.....	Yakima
Lytie, Frankie A, LA.....	Tacoma
McAfee, Irene, Grad.....	Georgetown Mills, BC
McAllister, Charles, LA.....	Seattle
McAllister, Geraldine, LA.....	Seattle
McAlpine, Evelyn, LA.....	Seattle
McAnally, Carrie, LA.....	Yakima
McAneny, John, Engr.....	Seattle
MacArthur, Archie A, Grad.....	Seattle
MacArthur, Kenneth R, LA.....	Seattle
McAssey, Daille, Sci.....	Seattle
McAtee, Margaret, LA.....	Seattle
Macaulay, John F, LA.....	Chicago, Ill
McAuley, Martha, LA.....	Yakima
McAuley, William, Bus.....	Seattle
McArthur, Wendell, Phar.....	Seattle
McCabe, Anne R, Sci.....	Wayna, Ore
McCabe, Julian C, Forr.....	Tonasket
McCall, Lillian G, LA.....	Seattle
McCallum, Donald A, LA.....	Seattle
McCallum, Donald S, LA.....	Sumner
McCunn, J J, Bus.....	Edmonds
McCanne, Gertrude, FA.....	Seattle
McCargar, Amy, LA.....	Seattle
McCargar, Ruth, FA.....	Seattle
McCart, Thelma, Bus.....	Port Angeles
McCarthy, Corrine E, LA.....	Kelso
McCartney, Francine, LA.....	Seattle
McCarty, Kenneth, Bus.....	Seattle
McCauley, Mary Ambrose, FA.....	Aberdeen
McClain, Dorothy, FA.....	Seattle
McClane, R W, Engr.....	Port Townsend
McClarren, D W, Engr.....	Seattle
McClarren, Ralph H, Engr.....	Seattle
McClarty, Bert J, Bus.....	Olympia
McClary, Harold W, For.....	Seattle
McCleary, John, LA.....	Olympia
McClellan, Hortense, Journ.....	Seattle
McClelland, Martha, LA.....	Tacoma
McClelland, Victor, FA.....	Seattle
McClung, Edwin H, For.....	Bellingham
McClure, Willard, FA.....	Seattle
McComas, Stanley, For.....	Anacortes
McConnell, Wm E, Grad.....	Millwood
McConahay, Lalia B, LA.....	Seattle
McCormick, Grace, Sci.....	Pinehurst
McCormick, Mary, Bus.....	Pinehurst
McCormick, C Thelma, LA.....	Portage
McCormick, Wilda, Bus.....	Seattle
McCoun, Frank, Min.....	Waitsburg
McCoun, Harold E, Engr.....	Tacoma
McCoy, Douglas, LA.....	Seattle
McCoy, Kenneth M, Bus.....	Spokane
McCracken, George, Bus.....	Seattle
McCrary, J E, LA.....	Seattle
McCrery, Lester L, LA.....	Dayton
McCulloch, Allen James, Phar.....	Orting
McCulloch, Ralph, Bus.....	Kent
McCutchan, Jack V, LA.....	Keokuk, Iowa
McCush, George, Law.....	Bellingham
McDermott, Paul, LA.....	Pateros
MacDonald, Aristelle, FA.....	Seattle
MacDonald, Cecelia, LA.....	Seattle
MacDonald, Charlotte, LA.....	Seattle
MacDonald, Donald Neal, FA.....	Seattle
MacDonald, Ellis, Sci.....	Vancouver
MacDonald, Eudora, FA.....	Seattle
McDonald, Frederick A, Sci.....	Seattle
McDonald, Georgene, LA.....	Seattle
MacDonald, Howard D, Engr.....	Seattle
MacDonald, Jeannette A, LA.....	Seattle
McDonald, John H, For.....	Clippier
MacDonald, K M, For.....	Olympia
McDonald, Phyllis, Sci.....	Seattle
MacDonald, Richard Crosley, LA.....	Seattle
MacDonald, Sarah I, Sci.....	Seattle
MacDonald, Verna A, Sci.....	Vancouver, BC
McDonnell, Audrey, LA.....	Seattle
Macdonell, James, LA.....	Bellingham
McDonough, Beaudette, LA.....	Seattle
McDougall, Ronald R, Bus.....	Seattle
McDowell, Louise, Sci.....	Ellensburg
McDowell, Wallace, Phar.....	Puyallup
McEachran, Stanley, LA.....	Tacoma
McElhaney, Marie, FA.....	Tacoma
McElhaney, Ross C, Bus.....	Bremerton
McElroy, Richard H, Engr.....	Seattle
McElvain, Ernest Emerson, Edu.....	Spokane
McEntyre, Alice, LA.....	Seattle
McEntyre, George, LA.....	Seattle
MacEwan, J D, LA.....	Seattle
McFadden, Harry E, Engr.....	St Ignatus, Mt
McFaddin, Helen, Edu.....	Spokane
McFaddin, Luella K, LA.....	Spokane
McFaddin, Mary, Sci.....	Spokane
McFayden, William John, LA.....	Seattle
McFarland, Marion, FA.....	Seattle
McFarland, Mary, LA.....	Seattle
McFarlane, Adrian J, Bus.....	Seattle
McFarlane, Peter, Bus.....	Seattle
Macfarlane, Richard, LA.....	Seattle
McFee, Louisa, LA.....	Seattle
McGar, Talbot, Engr.....	Seattle
McGary, Frank, LA.....	Seattle
McGee, Albert J, Engr.....	Seattle
McGee, Elizabeth, FA.....	Yakima
McGhie, Marian, Bus.....	Tenino
McGibbon, Donald, Bus.....	Seattle
McGibbon, John P, LA.....	Seattle
McGill, Andrew C, Bus.....	Honolulu
McGill, Ruth, LA.....	Seattle
McGinn, Laura E, LA.....	Aberdeen
McGinnis, Edith A, FA.....	Seattle
McGinnis, Mary A, FA.....	Seattle
McGlinn, Olive, Bus.....	Bellingham
McGowan, Edward H T, LA.....	Bremerton
MacGowan, Clara, Grad.....	Seattle
McGrath, Gertrude M, LA.....	Sitka, Alas
McGrath, Walter, FA.....	Seattle
McGrath, J Winon, Bus.....	Ephrata
McGraw, Ena K, Phar.....	Tacoma
McGuinness, Charles D, Edu.....	Snohomish
McGuinness, Hugh D, Engr.....	Everett
McGuinness, Mary R, Gad.....	Prosser
McGuire, Grace A, FA.....	Seattle
McGuire, Wilbur L, LA.....	Olympia
McHugh, Barb, Bus.....	Auburn
McHugh, Eileen, LA.....	Seattle
McIlravy, Lowell C, Bus.....	Seattle
McIntosh, Elizabeth, Educ.....	Seattle
McIntosh, Florine, FA.....	Clarkston
McIntosh, Gertrude M, LA.....	Seattle
McIntosh, Kenneth C, Bus.....	Everett
McIntosh, Loys, FA.....	Kent
McIntosh, Margery, FA.....	Clarkston
MacIntyre, A J, LA.....	Port Alberni, BC
McIntyre, Charles E, LA.....	Seattle
McKasson, Clyde, Bus.....	Seattle
McKay, Alice, FA.....	Spokane
McKay, Douglas D, For.....	Tacoma
McKay, Elizabeth, Sci.....	Seattle
McKay, Herndon, Bus.....	Spokane
McKay, Mary E, Sci.....	Mabton
McKay, John, Sci.....	Seattle
McKay, Sarabel, LA.....	Spokane
McKee, Clarence T, Bus.....	Seattle
McKee, Lynne G, Fsh.....	Bellingham



McKee, Mary E, LA.....	Seattle
McKenney, Boyd, Fsh.....	Seattle
McKenney, Margaret, LA.....	Hoquiam
McKenzie, Anne, LA.....	Tacoma
Mackenzie, Jean, Bus.....	Muscatine, Iowa
McKenzie, Kenneth W, LA.....	Seattle
McKeown, Mary, LA.....	Seattle
McKibben, Kenneth, Bus.....	Seattle
McKibben, Irene, LA.....	Seattle
McKinlay, Frank, Engr.....	Seattle
McKinney, Eloise, Edu.....	Seattle
McKinney, Waldo E, FA.....	Seattle
McKinnon, Anabel, FA.....	Spokane
MacKinnon, Donald, Bus.....	Seattle
MacKinnon, Kay, LA.....	Seattle
MacKintosh, Jean, LA.....	Seattle
McKinstry, Gordon W, Bus.....	Seattle
McKnight, Donald D, LA.....	Seattle
MacLaurin, Donald L, Grad.....	Seattle
McLaren, Marian A, LA.....	Spokane
McLaughlin, Catherine, LA.....	Seattle
McLaughlin, Don T, Bus.....	Seattle
McLaughlin, Harold M, Engr.....	Spokane
McLaughlin, Helen York, Edu.....	Seattle
McLean, Archie M, Bus.....	Ft Steilacoom
MacLean, Donald, Engr.....	Bellingham
MacLean, D G, Engr.....	Seattle
McLean, Margery E, LA.....	Walla Walla
McLean, Martin, Jr, LA.....	Seattle
McLees, Kenneth, Bus.....	Meadowdale
McLellan, Eugenia, LA.....	Seattle
McLennan, Elfred M, Edu.....	Cloverdale, Ore
McLennan, May, Grad.....	Seattle
McLeod, Kenneth Calder, Sci.....	Butte, Mont
McLeod, Malda, FA.....	Everett
McLeod, Sarah H, LA.....	Seattle
MacMahon, Charles, Engr.....	Seattle
MacMillan, John B, Bus.....	Seattle
McMahon, Clem, Bus.....	Bellingham
McMahon, John C, Engr.....	Bellingham
McMahon, Mildred, LA.....	Seattle
McMann, Joseph H, LA.....	Los Angeles, Cal
MacMartin, Lucyreta, LA.....	Walla Walla
McMaster, Frances, Sci.....	Vancouver
McMath, Margaret, LA.....	Cathlamet
McMeans, Ann T, LA.....	Seattle
McMeans, Elizabeth, LA.....	Seattle
McMeans, R W, Fsh.....	Seattle
McMeen, William, Engr.....	Seattle
McMillan, K F, Bus.....	Okechobee, Fla
Macmillan, Paul, LA.....	Tacoma
McMullen, Jim, Sci.....	Seattle
McMullen, Joseph E, Bus.....	Seattle
McMullen, E Lyle, LA.....	Tacoma
McMullen, R B, Engr.....	Seattle
McNabney, Jennie S, FA.....	Seattle
McNary, Catherine, LA.....	Pendleton, Ore
McNaughton, James W, LA.....	Juneau, Alas
McOmber, Shane, LA.....	Seattle
McPhaden, Kenneth S, FA.....	Vancouver
McPhee, John M, LA.....	Naches
McPherrin, Berence, Bus.....	Seattle
McPherson, Donald, Engr.....	Seattle
McPherson, Joe E, For.....	Brewster
McPherson, Kenneth, LA.....	Brewster
McPherson, Mildred, FA.....	Seattle
McPherson, William C, LA.....	Portland, Ore
McPhie, Alberta J, FA.....	Spokane
McQueen, Roseanna, Bus.....	Tacoma
McRae, Malcolm J, Sci.....	Lewiston, Ida
McRae, Ruth, FA.....	Seattle
McReavy, John M, Bus.....	Hoquiam
McRoberts, Dona, Sci.....	Seattle
McRory, Orville B, Sci.....	Seattle
MacSwain, Josephine, LA.....	Sacramento, Cal
McVay, Doris E, LA.....	Seattle
McVay, John P, Sci.....	Seattle
McWalter, Jack, LA.....	Seattle
McWhinnie, Edward S, LA.....	Bellingham
McWhinnie, Rosalind, Sci.....	Seattle
Ma, Te Chun, Grad.....	Mukden, China
Maas, Johannette A, LA.....	Seattle
Mack, George C, Phar.....	Seattle
Mack, Lorena, FA.....	Longview
Mackey, Florence, LA.....	Tacoma
Mackey, Jack M, Engr.....	Seattle
Mackort, Charles, Sci.....	Spokane
Macomber, Ray B, Bus.....	Seattle
Macrae, Donald H, Sci.....	Seattle
Mage, C Minor, FA.....	Seattle
Magee, J Homer, LA.....	Seattle
Magelsen, John, FA.....	Stanwood
Maginnis, Florence, FA.....	Seattle
Maginnis, Helen M, LA.....	Seattle
Magner, John E, LA.....	Richmond Beach
Magnusen, Harold, Bus.....	Seattle
Magnuson, C W, Phar.....	Seattle
Magnuson, Warren, Law.....	Seattle
Magnusson, Bryce, LA.....	Point Roberts
Mahaffay, Robert E, LA.....	Tacoma
Mahaffay, Warren B, LA.....	Tacoma
Maher, Lambert, LA.....	Port Townsend
Maher, Marian F, Jour.....	Port Townsend
Mahone, Lene L, LA.....	Seattle
Mahoney, Fred W, Phar.....	Arlington
Mahoney, Marjorie A, Sci.....	Seattle
Mahoney, Philip W, Law.....	Seattle
Main, Carroll, LA.....	Seattle
Main, Frank W, LA.....	Seattle
Major, Elva R, Bus.....	Hoquiam
Major, Georgia, Sci.....	Seattle
Major, Marjory B, Sci.....	Seattle
Major, Sidney W, LA.....	Seattle
Makino, Megum, Bus.....	Kumamoto, Japan
Malcolm, Jack T, Engr.....	Raymond
Malinao, Delfin, LA.....	Philippines
Mallett, Catherine, FA.....	Seattle
Mallett, John, Engr.....	Yakima
Mallis, Jane B, Grad.....	Seattle
Mallon, Marvel L, FA.....	Seattle
Malone, Arthur D, LA.....	Ellensburg
Malone, Coe V, Bus.....	Everett
Maltby, Doris, LA.....	Seattle
Manca, Harry E, Fsh.....	Seattle
Mandery, Anthony E, LA.....	Tenino
Mandles, Helen G, LA.....	Chehalis
Manfred, Nicholas, Engr.....	Irvin
Mangrum, Richard C, Law.....	Seattle
Manlon, Joseph B, Bus.....	Seattle
Manley, Catherine B, LA.....	Seattle
Manluca, Alfonso, Engr.....	Philippines
Mann, Charles C, Jr, Fsh.....	Seattle
Mann, Hubert A, LA.....	Concordia, Kan
Manuel, Francisco, LA.....	Philippines
Manning, Josephine, FA.....	Roy
Manning, Robert S, Bus.....	Seattle
Manousos, Angelo J, LA.....	Tacoma
Mansfield, Allan H, LA.....	Everett
Mansfield, Charles A, Bus.....	Tacoma
Mansfield, Herbert W, LA.....	Everett
Mansfield, Ruby M, LA.....	Camas
Manson, Albert E, LA.....	Seattle
Manson, Thelma, LA.....	Seattle
Mansur, Howard H, Engr.....	Seattle
Mantel, Theodore, Law.....	Seattle
Mantor, George C, LA.....	Seattle
Mar, S T Reginald, LA.....	Seattle
Mar, Teh-Chien, Engr.....	Foochow, China
Maravilla, Ricardo V, Engr.....	Philippines
Marchand, Martha Jane, LA.....	Aberdeen
Marchand, M C, Sci.....	Seattle
Mariano, Pio, Sci.....	Philippines
Marick, Louis, Grad.....	Butte, Mont
Marion, Lucien F, Law.....	Seattle
Mark, Bernard J, Engr.....	Portland, Ore
Mark, Ellison S, Engr.....	Bellingham
Mark, Leroy W, LA.....	Avon, Ill
Markey, Grace, LA.....	Seattle
Markus, Edythe J, LA.....	Seattle
Marquis, Marion A, Grad.....	Walla Walla
Marple, Elliot, LA.....	Seattle
Marr, F G, Phar.....	Tacoma

Marr, Frank N, Bus.....	Spokane
Marr, Lawrence E, Sci.....	Arlington
Marmon, Mary C, LA.....	Seattle
Mars, Annice, Bus.....	Spokane
Marsh, Doris V, LA.....	Arlington
Marsh, Harold B, LA.....	Endicott
Marsh, June P, Sci.....	Arlington
Marsh, Leon D, LA.....	Seattle
Marsh, Paul F, LA.....	Seattle
Marsh, Shirley R, Law.....	Kelso
Marshall, H Archie, LA.....	Pasco
Marshall, Benjamin M, Jr, Sci.....	Eureka, Cal
Marshall, Burt W, Bus.....	Seattle
Marshall, Marion, Sci.....	Pasco
Martin, Albert W, Jr, Engr.....	Portland, Ore
Martin, Arthur V, Bus.....	Los Angeles Calif
Martin, Bertha, Bus.....	Seattle
Martin, Carl L, Fsh.....	Seattle
Martin, Genevieve, LA.....	Seattle
Martin, George M, Engr.....	Mabton
Martin, Gladys A, Sci.....	Seattle
Martin, Glenn C, LA.....	Spokane
Martin, John R, Law.....	Seattle
Martin, Myron, LA.....	Longview
Martin, Robert R, LA.....	Seattle
Martin, W Stanton, Engr.....	Seattle
Martin, Stella, LA.....	Seattle
Martin, Thelma E, LA.....	Beaver Falls Pa
Martin, Thomas A, LA.....	Seattle
Martin, Wilmet W, FA.....	Aberdeen
Martina, John D, Bus.....	Seattle
Martincevic, Patricia, LA.....	Seattle
Marwood, Hazel, LA.....	Seattle
Masanki, Fukuda, Bus.....	Japan
Masi, Elizabeth, Bus.....	Mt Vernon
Maslan, Aaron L, Law.....	Seattle
Mason, Robert H, Bus.....	Seattle
Masters, Myron, Engr.....	Butte, Mont
Mather, Archibald, Grad.....	Seattle
Mather, Mildred, Sci.....	White Salmon
Matheson, Margaret J, Jour.....	Seattle
Matheson, Margaret L, LA.....	Seattle
Mathews, Dorothy, FA.....	Seattle
Mathewson, Edward W, LA.....	Seattle
Mathewson, Mark M, Bus.....	Seattle
Mathewson, Mark, LA.....	Shelton
Mathewson, Nancy Urline, LA.....	Seattle
Mathey, Norris, For.....	Monroe
Mathies, Herbert J, Bus.....	Seattle
Mathis, Clinton, Law.....	Seattle
Mathis, Earl, LA.....	Los Angeles, Cal
Mathison, C L, LA.....	Bellingham
Matlock, Orin, Bus.....	Portland, Ore
Matson, Elmer, For.....	Lake Stevens
Matson, James H, Engr.....	Seattle
Matsu, Hirobumi, Sci.....	Seattle
Matsuzawa, Fumio, FA.....	Seattle
Matthews, Alec, LA.....	Seattle
Matthews, Bruce, Bus.....	Seattle
Matthews, James B, Bus.....	Seattle
Matthews, John G, Jr, Law.....	Seattle
Matthews, Palmer A, Engr.....	Tacoma
Mattila, Walter, Edu.....	Woodland
Mattison, Elsie, LA.....	Seattle
Mattison, Helen Myrtle, LA.....	Seattle
Mattison, Mildred, Phar.....	Seattle
Mattmueller, Eleanor, Sci.....	Seattle
Mattson, Conrad, Jr, Phar.....	Seattle
Matson, Margaret, LA.....	Seattle
Maupin, Frank, LA.....	Kennewick
Maxey, Marie, FA.....	Aberdeen
Maxfield, Charles T, LA.....	Aberdeen
Maxwell, Bob, LA.....	Seattle
Maxwell, W H, LA.....	Shelton
May, Frank, Engr.....	Seattle
May, Herbert R, Bus.....	Aberdeen
May, Louis B, For.....	Seattle
Maydahl, Bergette, Sci.....	Spokane
Mayer, Alexander, LA.....	Seattle
Mayer, Edith, Educ.....	Shelton
Mayer, Geo J, LA.....	Seattle
Maynard, Jack Earl, Engr.....	Morse, Sask
Maylor, Charlotte, Sci.....	Oak Harbor
Mayo, Marjorie, LA.....	Seattle
Maynard, Anita, LA.....	Seattle
Meacham, Larned A, Engr.....	Seattle
Mead, Ida Christine, Edu.....	Seattle
Mead, Marilyn, FA.....	Spokane
Mead, Marjorie A, FA.....	Auburn
Meadowcroft, Fred, Fsh.....	Kent
Meagher, Geraldine, F, LA.....	Seattle
Meagher, Jane, LA.....	Seattle
Meagher, Vivian Ambrose, Bus.....	Seattle
Meaker, Marian Esther, Grad.....	Seattle
Meany, Edmond S, Jr, LA.....	Seattle
Medford, Platt, LA.....	Everett
Medler, Dan, LA.....	Seattle
Meeks, Ruby, FA.....	Clarkston
Megrew, Mary Violet, FA.....	Seattle
Mehlhorn, Eleanor, LA.....	Seattle
Mehlhorn, Elsie, LA.....	Seattle
Mehner, Esther, Bus.....	Bremerton
Meler, Ronald W, LA.....	Seattle
Meisnest, Helen L, FA.....	Seattle
Meister, Roy, Bus.....	Seattle
Meiburn, Clarence, Bus.....	Seattle
Mellinger, Martha J, Sci.....	Tacoma
Melson, Leif S, Phar.....	Seattle
Menard, A J, Min.....	Seattle
Mendell, Margaret M, Sci.....	Seattle
Menke, Henry C, Bus.....	Merced, Cal
Mentzer, William W, For.....	Tacoma
Merkle, George, Engr.....	San Bernardino, Cal
Mero, Gladys, LA.....	Seattle
Merrill, A Elliott, Grad.....	Seattle
Merrill, Lannon, Ruth, LA.....	Spokane
Merrin, Florence Evelyn, LA.....	Seattle
Merriman, Goldie, Sci.....	Edinboro, Pa
Merritt, Dorothy E, LA.....	Seattle
Merritt, Ruth May, LA.....	Seattle
Merritt, Wm Harrison, Bus.....	Seattle
Meservey, Marian, LA.....	Portland, Ore
Mesher, Mose, LA.....	Seattle
Metcalfe, Grace K, LA.....	Spokane
Metcalfe, Irwin Logan, LA.....	Soap Lake
Metcalfe, Kathryn M, LA.....	Yakima
Metcalfe, G E, Law.....	Seattle
Metcalfe, Mae, Sci.....	Seattle
Matke, Herbert, LA.....	Seattle
Mettler, Gordon, LA.....	Seattle
Metz, Franklin E, Bus.....	Everett
Metzger, Everett, LA.....	Tacoma
Meyer, Harold F, Engr.....	Orting
Meyer, Harold, Sci.....	Seattle
Meyer, Ivan W, FA.....	Seattle
Meyer, Maude J, LA.....	Seattle
Meyer, A William, Jr, Phar.....	Honolulu
Meyers, Liv Alice, LA.....	Seattle
Meyers, Evelyn M, LA.....	Seattle
Meyers, Fred W, Bus.....	Seattle
Michael, Elizabeth M, FA.....	Seattle
Mickelwait, Lowell, Bus.....	Spokane
Middleton, Cowper J, LA.....	Seattle
Middleton, Ethel R, LA.....	Seattle
Mideke, Louis, LA.....	Grandview
Mielke, Helen Evelyn, Grad.....	Spokane
Mieth, Stanley T, Bus.....	Cupertino, Cal
Mifflin, Emmett Robert, LA.....	Seattle
Mifflin, James W, LA.....	Olympia
Mifflin, John, Engr.....	Olympia
Mignerey, Madeleine, FA.....	Seattle
Milares, Ricardo, Engr.....	Philippines
Miklave, August, Sci.....	Kirkland
Miles, Edward, LA.....	Seattle
Miles, Frederick Ellwood, LA.....	Seattle
Miles, W C, LA.....	Seattle
Miley, John Donnell, Engr.....	Seattle
Milford, Mersel L, Edu.....	Seattle
Millar, Grace, Sci.....	Seattle
Miller, Adelaide Layna, FA.....	Seattle
Miller, Alden B, LA.....	Gresham, Ore
Miller, Alice Frances, LA.....	Tacoma

Miller, Amalia Frances, LA.	Fairbanks, Alas
Miller, Barry, LA.	Bellingham
Miller, Boyd B, LA.	Seattle
Miller, Currie Lowry, LA.	Seattle
Miller, Charles J, Grad.	Seattle
Miller, H Clair, LA.	Seattle
Miller, Harry H, LA.	Naches
Miller, Helen E, LA.	Seattle
Miller, Dorothy Fay, LA.	Seattle
Miller, Edward A, Sci.	Union City
Miller, Elida S, FA.	Union, Ore
Miller, Ellen A, LA.	Omak
Miller, Eloise, LA.	Seattle
Miller, Fay L, LA.	Seattle
Miller, Florence A, Phar.	Omak
Miller, Franklin, Bus.	Seattle
Miller, George L, Bus.	Seattle
Miller, Grace A, LA.	Edmonds
Miller, Helen G, FA.	Seattle
Miller, Henry A, Bus.	Centerville
Miller, Herbert J, Fsh.	Seattle
Miller, Hortense Hickman, Sci.	Seattle
Miller, Hugh K, Sci.	Seattle
Miller, Iris Lisle, LA.	Seattle
Miller, Irwin D, Bus.	Seattle
Miller, James K P, Sci.	Grandview
Miller, John E, Jour.	Seattle
Miller, Langhorne Elme, LA.	Seattle
Miller, Leonardreen, FA.	Bellingham
Miller, J Lyle, Bus.	Seattle
Miller, Marguerite R, LA.	Seattle
Miller, Mary Janet, LA.	Kalispell, Mont
Miller, Paul H, Bus.	Seattle
Miller, Paul Warren, Bus.	Puyallup
Miller, Ray A, Grad.	Seattle
Miller, Raymond Paul, Edu.	Cheney
Miller, Samuel S, Bus.	Seattle
Miller, T K, LA.	Waterville
Miller, Theodore R, Edu.	Palouse
Miller, Vivian, LA.	Vancouver
Miller, Ward, LA.	Seattle
Millman, Loren H, Grad.	Seattle
Mills, Catherine S, LA.	Seattle
Mills, Ellen E, LA.	Seattle
Mills, Francis, LA.	Kennewick
Mills, George, Bus.	Olympia
Mills, Gertrude, Grad.	Seattle
Mills, Mabel, LA.	Seattle
Mills, Orville H, Law.	Seattle
Mills, Paul A, Sci.	Seattle
Miner, Walker W, LA.	Seattle
Millot, John A, Law.	Seattle
Milward, Doris, LA.	Aloha
Minaker, Cecil W, Bus.	Seattle
Minch, Seth Elmer, LA.	Seattle
Miner, May, Bus.	Spokane
Miner, Ruth, LA.	Seattle
Mines, Ray, Jr, FA.	Seattle
Minkler, Don R, Bus.	Aberdeen
Minkler, Robert, LA.	Lyman
Minton, Lynn, Bus.	Wenatchee
Minuth, Gertie E, LA.	Yacolt
Mitchell, Arthur L, FA.	Spokane
Mitchell, Baker Adams, LA.	Seattle
Mitchell, S Carson, Bus.	Eureka, Cal
Mitchell, Catharine, FA.	Seattle
Mitchell, Charlotte, Sci.	Waterville
Mitchell, Donald A, Bus.	Camano City
Mitchell, George F, Bus.	Spokane
Mitchell, J Francis, LA.	Seattle
Mitchell, John G, LA.	Eureka, Cal
Mitchell, Katherine G, LA.	Seattle
Mitchell, Kathleen, LA.	Wheeler
Mitchell, Mary Gertrude, LA.	Seattle
Mitchell, Perry, Edu.	Harrah
Mitchell, Vivienne, LA.	Tacoma
Mitchell, Webster L, LA.	Almira
Miyamoto, May, Bus.	Seattle
Mo, Zung-Chung, LA.	China
Moberg, A F, FA.	Asotin
Modeen, Leslie, For.	Olympia
Moe, Clifford, LA.	Seattle
Moe, Myrtle, LA.	Seattle
Moffitt, D D, Sci.	Seattle
Moffatt, S A, Bus.	Colby
Moffatt, Elbert Marston, Grad.	Seattle
Mohler, Harry, LA.	Seattle
Mohrman, John, Phar.	Salida, Colo
Moldstad, Nelson J, Jr, LA.	Mt Vernon
Moller, Dan H, For.	Seattle
Mollestad, Howard, LA.	Seattle
Mollett, Catharine, FA.	Seattle
Monday, Sybil, LA.	Seattle
Monks, Eileen Adair, Sci.	Portland, Ore
Monnet, Randall, Bus.	San Jose, Cal
Monroe, John R, Edu.	Ferndale
Monroe, Leota, LA.	Seattle
Monsen, Hildur S, LA.	Seattle
Monson, Harold, FA.	Hoquiam
Montag, Adeline, Bus.	Seattle
Montague, Thomas, LA.	Bellingham
Monteski, Gertrude V, LA.	Minto, ND
Montford, Mary Leslie, Sci.	Blaine
Montford, Richard, Bus.	Blaine
Montgomery, Anna Hinch, LA.	Ellensburg
Montgomery, Carroll, LA.	Seattle
Montgomery, Clarice A, FA.	Seattle
Montgomery, Leslie, LA.	Seattle
Montilla, Francisco, Grad.	Philippines
Mony, Robert C, LA.	Everett
Moody, Earl, Engr.	Seattle
Mooney, Karl T, LA.	San Francisco, Calif
Moon, Ruth, LA.	Los Angeles, Cal
Morehodoff, Vladimir, Fsh.	Russia
Moore, Amy R, Sci.	Vancouver, BC
Moore, Audrey K, LA.	Wenatchee
Moore, Bernice S, Grad.	Seattle
Moore, Bryant W, Law.	Seattle
Moore, Burt Louise, Sci.	Kirkland
Moore, Donald J, Engr.	Washougal
Moore, Dorothy D, Grad.	Walla Walla
Moore, Dorothy G, FA.	Seattle
Moore, Edith L, LA.	Roy
Moore, Edward A, LA.	Bellevue
Moore, Eloise, LA.	Seattle
Moore, Elsa, LA.	Seattle
Moore, Gladys, FA.	Bellingham
Moore, Harry, Bus.	Seattle
Moore, Helen M, LA.	Seattle
Moore, Helen E, LA.	Chehalis
Moore, Josiah C, Jr, LA.	Seattle
Moore, Kathryn, FA.	Sedro-Woolley
Moore, Margaret, FAN.	Everett
Moore, Martha C, LA.	Walla Walla
Moore, Neva M, Phar.	Seattle
Moore, Paul C, Phar.	Upland, Calif
Moore, Philip H, Sci.	Carnation
Moore, Phyllis, LA.	Spokane
Moore, Robert B, Bus.	Fairfax
Moore, Robert J, Bus.	Seattle
Moore, Vivien M, FA.	Washougal
Moore, Walter, LA.	Seattle
Moore, Walter, LA.	Seattle
Moore, Wesley, LA.	Seattle
Moran, Christine L, LA.	Seattle
Moran, Halbert S, Bus.	Seattle
Moran, Kathryn, FA.	Seattle
Moran, Leo J, LA.	Seattle
Moran, Wendell, For.	Seattle
Morbeck, Donald C, Bus.	Coeur d'Alene, Ida
Morck, Ethel Poole, FA.	Seattle
More, David T, Engr.	Tacoma
Morehead, Ruby E, LA.	Boise, Ida
Morehead, Verna, LA.	Boise, Ida
Morehodoff, John A, Engr.	Russia
Morford, James, Bus.	Seattle
Morgan, Adrian H, Engr.	Bellingham
Morgan, Ann M, LA.	Seattle
Morgan, Beth, LA.	Hoquiam
Morgan, Cecil A, LA.	Cheney
Morgan, Coral, Educ.	Kellogg, Ida
Morgan, Dorothy L, FA.	Seattle

Morgan, Elliott, LA.....	Seattle
Morgan, Eva, LA.....	San Francisco, Calif
Morgan, Frank, Engr.....	Hoquiam
Morgan, Helen E, LA.....	Hoquiam
Morgan, Lucile, LA.....	Seattle
Morgan, Marjorie, Sci.....	Carbarton, Ida
Morgan, Mary A, Grad.....	Portage
Morgan, Ruth E, Sci.....	Seattle
Morgan, Walter M, Sci.....	Davenport
Morhaim, Leo, Engr.....	Seattle
Moriarty, John, LA.....	Seattle
Morney, Elmer E, Bus.....	Marysville
Morningstar, Everett, LA.....	Bellingham
Morrill, George E, Engr.....	Entiat
Morrill, Helen, LA.....	Entiat
Morrill, Mabel, FA.....	Kent
Morris, Clydene, Sci.....	Seattle
Morris, Donald V, LA.....	Puyallup
Morris, Francis L, Bus.....	Seattle
Morris, Gladys, Sci.....	Stellacoom
Morris, Gregory S, Bus.....	Seattle
Morris, D Norton, Engr.....	Buckley
Morris, Paul, Fsh.....	Everett
Morris, R A, Sci.....	Seattle
Morris, Virginia, LA.....	Seattle
Morris, William G, For.....	Seattle
Morrison, Anna M, LA.....	Kirkland
Morrison, Clayton W, Law.....	Seattle
Morrison, Darrel, LA.....	Auburn
Morrison, Dorothy, LA.....	Seattle
Morrison, D Grant, LA.....	Seattle
Morrison, Harwood, LA.....	Seattle
Morrison, J E, LA.....	Spokane
Morrison, Marjorie E, Sci.....	Tacoma
Morrow, Hugh, LA.....	Seattle
Morrow, Jeannette, FA.....	Seattle
Morrow, Thomas, Engr.....	Tacoma
Morry, Lucile, LA.....	Seattle
Morse, Evelyn, LA.....	Seattle
Morse, Ken, LA.....	Seattle
Morse, Roy W, Engr.....	Seattle
Mort, Hazel B, LA.....	Gig Harbor
Mortimer, Francis E, Engr.....	Seattle
Morton, John A, LA.....	Seattle
Morton, Robert, Bus.....	Honolulu, TH
Moseley, Crowder, Engr.....	Seattle
Moseley, Maud L, Grad.....	Seattle
Moseley, Robert D, Bus.....	Seattle
Moses, Stephen B, LA.....	Seattle
Moser, Clemewell, FA.....	Seattle
Mosher, Iris W, LA.....	Olympia
Mosher, Mollie, FA.....	Santa Ana, Cal
Mosolf, James F.....	Tacoma
Motosaka, Ichiro, Bus.....	Seattle
Mottelson, Mayer, LA.....	Seattle
Mottishaw, Grace E, Sci.....	Calgary, Alta
Moulton, Burton A, Bus.....	Bellingham
Moulton, Edith A, Sci.....	Kirkland
Moulton, Helen R, LA.....	Seattle
Mount, James, Grad.....	Seattle
Mowat, Helen F, LA.....	Seattle
Mowat, Lillian, Phar.....	Port Orchard
Mowry, Rachel, FA.....	Seattle
Moyle, Edward S, Bus.....	Seattle
Moyer, Jacob, Grad.....	Seattle
Moyes, Catherine, LA.....	Seattle
Mudgett, Roberta, Sci.....	Tacoma
Mundie, Gladys M, LA.....	Seattle
Mueller, Edward C, Engr.....	Port Stanley
Muffley, Richard B, LA.....	Hollywood
Muir, Mary, Sci.....	Bellingham
Muirhead, Calder, LA.....	Seattle
Mulcahy, Coleman H, Grad.....	Deer Lodge, Mt
Mulcahy, Kathleen, FA.....	Seattle
Mulhern, Helen, Grad.....	Seattle
Mulholland, Edward A, LA.....	Seattle
Mulholland, William E, Bus.....	Seattle
Mullane, J Stanley, LA.....	Seattle
Mullen, Cecil, LA.....	Yakima
Mullen, Frances, LA.....	Seattle
Mullen, Leo J, Phar.....	Okanogan
Mullen, Roy M, Bus.....	Seattle
Mullendore, H Weston, Bus.....	Seattle
Mulligan, Bernard, LA.....	Raymond
Mullin, Dorothea S, Sci.....	Seattle
Mullin, Jack D, LA.....	Bellingham
Mumford, Clarence B, Sci.....	Seattle
Mund, Vernon A, Bus.....	Pe Ell
Munson, Rufus C, Engr.....	Seattle
Munro, J Eddy, LA.....	Seattle
Murata, Kay, FA.....	Seattle
Murawska, Kasimira, LA.....	Seattle
Murchison, Donald, Engr.....	Seattle
Murdock, Mary, Bus.....	Seattle
Murphy, Katherine F, Sci.....	Portland, Ore
Murphy, Teresa M, Educ.....	Sumner
Murray, Alice, LA.....	Seattle
Murray, Beth, FA.....	Seattle
Murray, Clarence M, Jr, Engr.....	Seattle
Murray, T Dennis, LA.....	Seattle
Murray, Edward R, Fsh.....	Seattle
Murray, Isabelle, FA.....	Butte, Mont
Murray, Jane F, Educ.....	Winslow
Murray, Jesse W, LA.....	Omak
Murray, Margaret, LA.....	Seattle
Murray, Nellie, Bus.....	Seattle
Murray, Virginia Irene, Sci.....	Seattle
Murray, Virginia Marion, FA.....	Spokane
Murray, M Virginia, Bus.....	Seattle
Murray, William D, LA.....	Seattle
Murton, M Ethelwynne, LA.....	Portland, Ore
Match, Carol, LA.....	Tacoma
Myers, David R, FA.....	Seattle
Myers, Doris, Educ.....	Bellingham
Myers, Dorothy, Bus.....	Seattle
Myers, Emma, Sci.....	Port Blakeley
Myers, A Francis, Engr.....	Blaine
Myers, Helen, LA.....	Seattle
Myers, Kenneth G, Bus.....	Seattle
Myers, Mary H, LA.....	Seattle
Myhre, Clara M, FA.....	Seattle
Myrole, William J, FA.....	Seattle
Nahhas, Emmeline, LA.....	Seattle
Nagamine, Frank, FA.....	Seattle
Nagel, Sylvia D, FA.....	Tacoma
Nagley, Hazel, FA.....	Seattle
Nakabayashi, Annie K, LA.....	Victoria, BC
Nakagawa, Toriaki, Bus.....	Seattle
Nakaseko, Kazu, FA.....	Seattle
Nakashima, George, FA.....	Seattle
Nakata, Masaji, Engr.....	Bellevue
Nakaya, F S, Phbar.....	Seattle
Nardin, Alphonse C, LA.....	Seattle
Nash, Anna M, FA.....	Seattle
Nash, John W, Law.....	Seattle
Nassonoff, Alexanderr, Eng.....	Russia
Nasstrom, Gladys M, LA.....	Seattle
Nathan, Kenneth R, Engr.....	Seattle
Nau, John C, Bus.....	Seattle
Nau, Thomas P, Bus.....	Seattle
Navarro, Eurique P, LA.....	Pasquim, PI
Navarro, Joaquin, Sci.....	Philippines
Navea, Vicente O, LA.....	Philippines
Nay, Edward O, Jr, Bus.....	Pasadena, Cal
Naylor, A McCune, LA.....	Callistoga, Cal
Nazareth, Victor C, Fsh.....	Seattle
Neal, Edgar E, LA.....	Seattle
Neal, Justine, LA.....	Port Angeles
Neal, Richard K, LA.....	Seattle
Neale, Mary E, Educ.....	Hillsboro, Wis
Near, Maxine, Sci.....	Seattle
Nedelisky, Leo, Engr.....	Siberia
Neeley, Helen, LA.....	Weiser, Idaho
Neeley, Florence E, LA.....	Sacramento, Cal
Neese, Vera, LA.....	Seattle
Neideffer, Cecil, Phar.....	Seattle
Neikirk, Claire B, LA.....	Seattle
Neikirk, Leighton, Bus.....	Seattle
Neil, Gwendolyn, LA.....	Seattle
Nell, Richard L, Sci.....	Seattle

Nellan, Fred, Bus.....	Yakima
Neill, L LeRoy, LA.....	Seattle
Neill, William J, LA.....	Seattle
Nellson, Hazel, Educ.....	Kirkland
Nellson, John L, Bus.....	Raymond
Nellson, W Lennard, FA, Kalispell, Mont	
Nelson, Arthur, Phar.....	Arlington
Nelson, Clarence L, Bus.....	Olympia
Nelson, Earl J, Bus.....	Havre, Mont
Nelson, Ella, FA.....	Sedro-Woolley
Nelson, Erma E, Grad.....	Seattle
Nelson, Ernest N, Engr.....	Kapowsin
Nelson, Ethel, LA.....	Seattle
Nelson, Eugene R, Bus.....	Long Beach, Cal
Nelson, Evelyn, Bus.....	Pe Ell
Nelson, Evelyn I, LA.....	Seattle
Nelson, Helen Clare, LA.....	Seattle
Nelson, Helen M, LA.....	Seattle
Nelson, Henry O, Engr.....	Aberdeen
Nelson, James, Sci.....	Blickleton
Nelson, John M, Engr.....	Seattle
Nelson, Lillian F, LA.....	Seattle
Nelson, Malcolm E, Bus.....	Seattle
Nelson, Mildred, FA.....	Seattle
Nelson, Oscar E, FA.....	East Stanwood
Nelson, Paul H, Engr.....	Wenatchee
Nelson, Ralph B, Engr.....	Winslow
Nelson, Robert E, Bus.....	Walla Walla
Nelson, Robert B, LA.....	Seattle
Nelson, Torval H, Sci.....	Bellingham
Nelson, Wilma, LA.....	Seattle
Nemiro, Herman, Bus.....	Seattle
Ness, Claudine D, Bus.....	Harrington
Ness, Dorothy, Sci.....	Wapato
Ness, Margaret, FA.....	Yakima
Nessly, Dorothy E, LA.....	Seattle
Nestos, Reginald, Jr, FA.....	Sedro-Woolley
Nettleton, Jane, FA.....	Seattle
Nettleton, Ruth, FA.....	Seattle
Neumann, Cameron M, Bus.....	Seattle
Neumann, Olivia K, LA.....	Camp Lewis
Neville, Betty, Grad.....	Walville
Neville, Jack B, For.....	Walville
Nevins, Willard, Fsh.....	Granite Falls
Newbern, Fern, FA.....	Seattle
Newberry, Amelia E, LA.....	Kirkland
Newbury, James V, Bus.....	Seattle
Newbury, Kirsten, Grad.....	Seattle
Newell, Richard L, Engr.....	Everett
Newell, Robert J, LA.....	Seattle
Newkirk, Billy, Sci.....	Seattle
Newman, Irene, FA.....	Seattle
Newman, Ruth L, Sci.....	Spokane
Newport, Marshall, Engr.....	Randle
Newsham, Daisy, Bus.....	Seattle
Newstrom, Carl, Engr.....	Seattle
Newsom, John H, Engr.....	Seattle
Newton, Enid, LA.....	Portland, Ore
Newton, Mary E, LA.....	Spokane
Neylon, Mary T, Educ.....	Olympia
Neylon, Walter J, Engr.....	Olympia
Nichols, Amelle, LA.....	Seattle
Nichols, Byron, FA.....	Seattle
Nichols, Claudia, LA.....	Vashon Heights
Nichols, Frank, Engr.....	Hawaii
Nichols, Helena L, FA.....	Seattle
Nichols, Iva S, Sci.....	Seattle
Nichols, Jane, LA.....	Seattle
Nichols, Raymond H, Fsh.....	Sterling, Colo
Nichols, Rubie J, Sci.....	Wapato
Nicholson, Catherine, FA.....	Spokane
Nicholson, M Irene, LA.....	Tacoma
Nicholson, Laurence E, Sci.....	Anacortes
Nicholson, Louise, LA.....	Vancouver
Nicholson, Walter, Engr.....	Seattle
Nicholson, Walter K, LA.....	Vancouver
Nickell, George T, LA.....	Seattle
Nickerson, Isabelle M, Bus.....	Seattle
Nickum, William B, LA.....	Seattle
Nieheke, Alvin, Engr.....	Colton
Nielsen, I D J, LA.....	Valley City, ND
Nielsen, Stuart K, FA.....	Seattle
Niemann, Frederick V, Bus.....	Seattle
Niemeyer, Earl, FA.....	Seattle
Niesen, Helene J, LA.....	Tacoma
Niesz, Ralph M, Engr.....	Seattle
Niles, Kathryn B, Educ.....	Seattle
Niles, Kenneth L, FA.....	Seattle
Nillo, Marcelo V, LA.....	Philippines
Nims, Fred D, LA.....	Seattle
Ninomiyu, Shige, LA.....	Seattle
Nishida, Seiji, Engr.....	Seattle
Nishimoto, James Y, Bus.....	Seattle
Nissley, Maria, LA.....	Centralia
Nix, Martha J, Grad.....	Dresden, Tenn
Nixon, Clayton F, Law.....	Seattle
Nixon, James F, Bus.....	Kirkland
Nizam, A R, Fsh.....	Singapore, Malay
Noble, Helen M, Sci.....	Seattle
Noble, Theron, LA.....	Everett
Noblitt, Lloyd, LA.....	Olympia
Noftalinger, Nymah, LA.....	Mt Vernon
Nohl, Robert G, Engr.....	Belt, Mont
Nohr, Marjorie, LA.....	Spokane
Nojl, Oliver K, FA.....	Seattle
Nojiri, Henry K, Engr.....	Seattle
Nolan, Clarence, Engr.....	Seattle
Noll, Arthur S, Engr.....	Seattle
Nollar, J Oswald, Bus.....	Seattle
Nordling, Margaret, Sci.....	Shelton
Nordquist, Carlos G, Law.....	Seattle
Nordquist, Elsie E, LA.....	Seattle
Nordstrom, Elmer, Bus.....	Seattle
Norie, Esther E, Sci.....	Seattle
Norie, James L, Jr, Grad.....	Seattle
Norie, Martha, LA.....	Seattle
Norling, Dorothy A, FA.....	Seattle
Norman, Howard A, LA.....	Raymond
Norris, M Maxine, LA.....	Goldendale
Norris, Ruth, LA.....	Seattle
North, Jeanette, Sci.....	Seattle
North, Norma L, LA.....	Seattle
Norton, Edward R, LA.....	San Francisco, Cal
Norton, Frances R, LA.....	Yakima
Norton, Henry, LA.....	Tacoma
Norton, M June, LA.....	Tacoma
Notkin, Natalie, Grad.....	Seattle
Nowatzki, Claire H, FA.....	Iron Mount'n Mch
Nudd, Barbara E, LA.....	Seattle
Nunan, Ruth C, LA.....	Ketchikan, Alas
Nunn, Charles T, Grad.....	Salem, Ore
Nye, Margaret A, LA.....	Glendive, Mont
Nygran, A Evelyn, LA.....	Seattle
Nygren, Alf J, Sci.....	Snohomish
Nyman, Rose, FA.....	Seattle
Oatey, Miriam, LA.....	Orondo
Oberg, Clarence D, Bus.....	Everett
O'Brien, Elizabeth M, LA.....	Seattle
O'Brien, Frank T, Phar.....	Seattle
O'Brien, Michael, LA.....	Seattle
O'Brien, Nora M, LA.....	Seattle
Ocampo, Pedro V, Bus.....	Philippines
Ochs, Clyde, Bus.....	Seattle
O'Connell, James T, LA.....	Winlock
O'Connor, Helen, LA.....	Tacoma
O'Connor, Michael J, Sci.....	Spokane
Odani, Juichi, Bus.....	Seattle
O'Dea, William E, Engr.....	Battleground
Odegard, Leonard S, Educ.....	Spokane
Odegard, Thomas J, Phar.....	Seattle
Odell, Ruth M, Educ.....	Spokane
Odgers, G A, Grad.....	Seattle
O'Donnell, Henry P, Engr.....	Pueblo, Colo
Oeck, Emil A, Bus.....	Spokane
Oertli, F Carla, LA.....	Spokane
Oestreich, Roy, Bus.....	Ritzville
Ogawa, Elmer, Bus.....	Seattle
Ogilvie, Varvara, Sci.....	Vancouver, BC
Ogrosky, Grace D, LA.....	Everett
Ohashi, Teru, Sci.....	Japan

Ohlhoft, May, Sci.....	Everett	Osborn, H Ross, LA.....	Spokane
Olstad, George, LA.....	Seattle	Osborn, Lewis K, Engr..	Long Beach, Cal
Okada, Hito, Engr.....	Tacoma	Osborn, Melba, Sci.....	Seattle
Okada, Rlchi, Engr.....	Japan	Osseward, John P, Bus.....	Seattle
Okajima, Victor, LA.....	Seattle	Ostberg, Urania, Sci.....	Kirkland
Okamura, Florence, LA.....	Seattle	Osten, Winnifred, LA.....	Seattle
Okamura, Hanna, FA.....	Seattle	Ostenson, Floyd C, Grad.....	Seattle
Okasaki, I Robert, LA.....	Seattle	Osterman, Hugo, FA.....	Walla Walla
O'Keane, Frances E, FA.....	Portland, Ore	Osterman, Ruth, Sci.....	Walla Walla
O'Keane, Mary C, LA.....	Portland, Ore	Ostund, Isadore, Engr.....	Bryn Mawr
O'Keefe, Jessie, Sci.....	Seattle	Ostrander, Margaret, Bus.....	Seattle
Okimura, Nobuo, LA.....	Japan	Ostrov, Rose, LA.....	Seattle
Okubo, Roco R, Bus.....	Portage	Ostrom, Eleanor, FA.....	Medina
Olberg, Leon N, Engr.....	Port Townsend	Ostrom, L Bradford, Sci.....	Bremerton
Oldfield, Willis C, Law.....	Everett	Ostrom, Theodore E, Bus.....	Seattle
Oldham, Constance M, LA.....	Bremerton	Oswald, David C, Bus.....	Everett
Olds, Marie Olivia, Sci.....	Colville	Oswald, Elizabeth, LA.....	Everett
O'Leary, Alice, LA.....	Seattle	Otani, Kikuye, LA.....	Wapato
O'Leary, Helen K, LA.....	Seattle	Otani, Satematsu, LA.....	Japan
O'Leary, D Keith, Sci.....	Seattle	Otsubo, George K, Sci.....	Seattle
Oles, Dorothy V, LA.....	Seattle	Ott, Anna V, Sci.....	Port Angeles
Oleson, Mabel H, LA.....	Tacoma	Ottenheimer, Albert M, LA.....	Tacoma
Oleson, James R, Bus.....	Kelso	Otto, Robert H, Bus.....	Everett
Olin, Charles Herbert, LA.....	Seattle	Ouren, Frederick, Sci.....	Leavenworth
Olin, Frances J, LA.....	Seattle	Outouse, Samaria, Sci.....	Tacoma
Olin, William C, Bus.....	Seattle	Ovenell, Fred J, LA.....	Burlington
Oliver, Egbert S, LA.....	Seattle	Overbay, Charles H, For.....	Manson
Oliver, Helen N, LA.....	Seattle	Overly, Fred J, For.....	Centralia
Oliver, Louise, LA.....	Prescott, Ariz	Overturf, Catherine A, FA.....	Tacoma
Oliver, Marguerite, LA.....	Seattle	Owen, Hazel H, Sci.....	Seattle
Oliver, Orno, Bus.....	Alderton	Owen, Margarita, LA.....	Seattle
Oliver, Russell, Bus.....	Seattle	Owens, Virginia, FA.....	Seattle
Oliver, Shirley J, LA.....	Seattle		
Olmsted, Joel B, Law.....	Seattle		
Olney, Dorothy, LA.....	Seattle		
Olschewsky, Henry J, Engr.....	Olympia	Pabst, Avery A, LA.....	Everett
Olsen, Albert, Law.....	Seattle	Pacia, Marcelo R, Sci.....	Philippines
Olsen, Berglot, Educ.....	Prosser	Pack, Edith Olive, FA.....	Seattle
Olsen, Claude S, FA.....	Seattle	Packard, Frank B, LA.....	Seattle
Olsen, Frederick C, Law.....	Zillah	Packard, S E, LA.....	Seattle
Olsen, Hanford Theodore, Bus.....	Coupeville	Packard, Sylvia, LA.....	Seattle
Olsen, Howard M, LA.....	Zillah	Packard, Thelma, FA.....	Seattle
Olsen, Thelma, LA.....	Seattle	Padelford, Eunice Brewster, LA.....	Seattle
Olsen, Adella, Educ.....	Sunnyside	Padilla, Eugenio, LA.....	Philippines
Olsen, Avary H, Sci.....	Stevenson	Padley, Willine Julianna, LA.....	Spokane
Olsen, Earl S, Engr.....	Seattle	Page, Frederick J, LA.....	Maplewood, NJ
Olsen, Elliott, Bus.....	La Center	Pahl, Marie, FA.....	Seattle
Olsen, Eric O, Engr.....	Seattle	Paine, John L, Bus.....	Okanogan
Olsen, Ernest E, LA.....	Chehalis	Painter, Esther Elvira, FA.....	Cheney
Olsen, George L, Bus.....	Spokane	Painter, Janet B, LA.....	Seattle
Olsen, Gladys J, FA.....	Auburn	Palacio, Apolonio, Engr.....	Philippines
Olsen, Harry L, LA.....	Yakima	Palmer, Berenice, LA.....	Chehalis
Olsen, Katherine E, LA.....	Seattle	Palmer, Dorothy, FA.....	Seattle
Olsen, Kenneth B, Sci.....	Seattle	Palmer, Ellen A, LA.....	Berkeley, Calif
Olsen, Kermit, Engr.....	Tacoma	Palmer, Herbert, LA.....	Centralia
Olsen, Leone, LA.....	Libby, Mont	Palmer, Howard, LA.....	Arlington
Olsen, Lloyd, For.....	Seattle	Palmer, Lawrence, Engr.....	Centralia
Olsen, Martin, Bus.....	La Center	Palmer, Lester, Bus.....	Everett
Olsen, Nathalie, LA.....	Seattle	Palmer, Marjorie G, LA.....	Seattle
Olsen, Ralph H, Fsh.....	Seattle	Palmer, Rex, LA.....	Seattle
Olsen, Roy L, For.....	Monroe	Palmroth, William G, For.....	Aberdeen
Olsen, Warren E, LA.....	Tacoma	Palpallatoc, Ceferino V, LA.....	Seattle
O'Mahony, Mary, LA.....	Seattle	Palpallatoc, Paul P, Grad.....	Philippines
O'Malley, Mona, Sci.....	Seattle	Pamment, Dorothy, FA.....	Seattle
O'Meara, Erma, LA.....	Seattle	Pan, Vadim O, Sci.....	Harbin, China
Omer, George D, LA.....	Butte, Mont	Panesko, John, LA.....	Chehalis
O'Neill, Gordon B, LA.....	Seattle	Pannell, Shirley, FA.....	Seattle
Opland, James M, Bus.....	Olympia	Pantaleone, E Thelma, LA.....	Seattle
O'Reilly, Patrick, Engr.....	Seattle	Pape, Karl R, Engr.....	Edmonds
Orito, Kenzaburo, Bus.....	Japan	Pappas, Georgia B, LA.....	Seattle
Orkney, Douglas L, LA.....	Hoquiam	Paquin, Rolfe J, Bus.....	Seattle
Orkney, James W, Bus.....	Hoquiam	Paradis, Culver, Engr.....	Seattle
Orkney, R W, Bus.....	Hoquiam	Pardee, Alan, Engr.....	Pasadena, Cal
Oros, Charles N, Engr.....	Colby	Pardee, Jay C, Engr.....	Seattle
Orr, Alma, LA.....	Auburn	Pardee, Loe Harder, LA.....	Seattle
Orr, T Mack, Bus.....	Spokane	Parfitt, Gail R, Sci.....	Seattle
Orr, Paul H, Law.....	Tacoma	Parish, Jane, Sci.....	Vancouver
Orr, Robert, Engr.....	Spokane	Parisima, Jose, Bus.....	Philippines
Orton, Allen.....	Seattle	Park, Howard, Engr.....	Seattle
Orton, Constance, LA.....	Seattle	Parken, Edward A, LA.....	Tacoma
Orvis, Harriet S, Sci.....	Bryn Mawr	Parker, Chester Herbert, Bus.....	Kalama
		Parker, Dorothy Jean, LA.....	Seattle

Parker, Esther, FA.....	Seattle
Parker, Fremont E, LA.....	Seattle
Parker, Terence, FA.....	Seattle
Parkinson, Doris B, FA.....	Seattle
Parks, Charles, LA.....	Kennewick
Parks, Harold W, Bus.....	Seattle
Parr, Katherine, LA.....	Spokane
Parrington, Louise, LA.....	Seattle
Parrott, J Bruce, LA.....	Pasadena, Cal
Parry, Betty, LA.....	Portland, Ore
Parsons, Elizabeth J, Sci.....	Lewiston, Mont
Parsons, Ernest C, LA.....	Seattle
Parsons, James E, LA.....	Sandpoint, Ida
Parsons, Roland C, Bus.....	Bellingham
Partansky, Alexander, Fsh.....	Russia
Partee, Raymond A, LA.....	Seattle
Partridge, Edith M, LA.....	Richmond Hill's
Pascual, Narciso P, LA.....	Philippines
Pasha, Edith C, LA.....	Bozeman, Mont
Pask, Alice M, LA.....	Seattle
Pasukun, Catalion T, LA.....	Philippines
Patch, Esther A L, Edu.....	Beach
Patchett, B F, Bus.....	Ellensburg
Paterson, Jack, FA.....	Seattle
Patjens, Irene, LA.....	Bend, Ore
Paton, Harold C, Bus.....	Cashmere
Patricelli, Liberino, Engr.....	Seattle
Patrick, James F, Engr.....	Seattle
Patrick, Mary S, LA.....	Seattle
Patrick, Ransom R, FA.....	Wenatchee
Patric, Walter F, Bus.....	Seattle
Patten, Irmengarde, LA.....	Seattle
Patten, Hudson T, Jr, Grad.....	Seattle
Patten, Lawton M, FA.....	Seattle
Patten, Marjorie, LA.....	Seattle
Patten, Virginia, FA.....	Seattle
Patterson, Ambrose, FA.....	Seattle
Patterson, Florence M, Edu.....	Auburn
Patton, George H, LA.....	Seattle
Patton, Ruth Mary, LA.....	Seattle
Pattullo, Marion, LA.....	Portland, Ore
Patzner, Sidney, LA.....	Seattle
Patzold, Oswald E, FA.....	Seattle
Paul, John W, LA.....	Tacoma
Paul, Ruth M, LA.....	Seattle
Paulhamus, Dwight R, Bus.....	Sumner
Paull, Walter Wallace, LA.....	Seattle
Paulson, Ethel, Sci.....	Enumclaw
Paulson, Florence Mae, Bus.....	Poulsbo
Paulson, Grace M, LA.....	Seattle
Pautke, Clarence F, Fsh.....	Seattle
Paxton, Robert, LA.....	Seattle
Payette, Sedric, Engr.....	Seattle
Payne, Burnett H, For.....	Eldon
Payne, J Edgar, Sci.....	Kelso
Payne, Velma Frances, LA.....	Clarkston
Paynton, Charles S, LA.....	Tacoma
Payse, Doris, FA.....	Seattle
Payzant, Marion, LA.....	Everett
Peach, Helen, Sci.....	Port Townsend
Peach, Ruth A, Sci.....	Port Townsend
Peacock, Clara R, Bus.....	Seattle
Peacock, Dan C, Jr, Engr.....	Port Angeles
Peacock, Marion, LA.....	Portland, Ore
Peacock, Mildred Stuart, LA.....	Port Angeles
Peacock, Priscilla, LA.....	Seattle
Pearce, Eunice, Edu.....	Philomath, Ore
Pearce, Marion, LA.....	Seattle
Pearl, Charles J, Law.....	Prosser
Pearson, Ben J, Engr.....	Gig Harbor
Pearson, Charles T, FA.....	Tacoma
Pearson, Joe, Bus.....	Spokane
Pearson, Lenora Josephine, Bus.....	Seattle
Pearson, Mabel D, LA.....	Seattle
Pearson, Mabel V, FA.....	Bothell
Pearson, Merrill, LA.....	Prosser
Pearson, Russell, Fsh.....	Sultan
Pearson, Wm, Bus.....	Spokane
Pease, Estelle, Sci.....	Seattle
Pease, Howard J, LA.....	Seattle
Pease, William A, LA.....	Seattle
Pebbles, Harold A, LA.....	Seattle
Pederson, Helma, FA.....	Methow
Pederson, Lawrence Benhard, Bus.....	Seattle
Pederson, Russell, LA.....	Seattle
Pedircord, G W, Bus.....	Spokane
Peck, Cliff L, LA.....	Seattle
Peha, Albert J, Phar.....	Seattle
Pelkey, Everett, Engr.....	Vancouver, BC
Pellegrini, Angelo M, Law.....	McClary
Pellegrini, Frank A, Law.....	Seattle
Pellegrini, Marion M, Sci.....	Seattle
Pellegrini, Rosalie L, LA.....	Seattle
Pelto, Ethel, LA.....	Tieton
Peltret, Edward H, LA.....	Seattle
Pence, Etta, LA.....	Seattle
Pence, Orville, LA.....	Seattle
Pendleton, Dorothy I, Sci.....	Seattle
Pendleton, Jane, LA.....	Seattle
Peng, David, LA.....	China
Penick, Norman J, For.....	Everett
Penington, Ruth E, FA.....	Sea tie
Pennell, Donald F, Engr.....	Seattle
Penney, Lois, Sci.....	Tacoma
Penrod, J Durant, Sci.....	Seattle
Penwell, May G, Educ.....	Seattle
PePalpal-latoc, John, But.....	Philippines
Pepper, Norma Kathryn, FA.....	Seattle
Percival, Dorothy L, Educ.....	Seattle
Peratrovich, R J, Jr, Bus.....	Klawock, Alas
Percy, Gretchen, LA.....	Seattle
Perdang, Henry, For.....	Bas on
Perdick, John, Phar.....	Renton
Perfield, John A, FA.....	Seattle
Perkins, DeForest, LA.....	Seattle
Perkins, Dorris E, Grad.....	Seattle
Perkins, Melvin C, Bus.....	Seattle
Perks, Mary Alice, LA.....	Pe Bill
Perrine, Gertrude D, Sci.....	Sea tie
Perring, Norman C, LA.....	Olympia
Perry, Grace L, FA.....	Lakeside
Perry, Marcy, FA.....	Seattle
Perry, Warren L, Grad.....	Seattle
Person, Henry A, LA.....	Tacoma
Personous, Lewis H, Engr.....	Seattle
Pesce, Catherine, LA.....	Seattle
Pesce, Lawrence, Sci.....	Seattle
Peters, Emil C, Jr, LA.....	Honolulu
Peters, Evan R, LA.....	Zillah
Peters, Laura B, FA.....	Seattle
Peters, Mildred, FA.....	Bellingham
Petersen, Alma, Sci.....	Langley
Petersen, Thomas I, Jr, Bus.....	Seattle
Petershagen, Alvin B, Bus.....	Everett
Peterson, Amy, Sci.....	Monroe
Peterson, C Anabel, FA.....	Seattle
Peterson, Arleen, LA.....	Spokane
Peterson, Arthur C, Engr.....	Seattle
Peterson, Arthur D, Bus.....	Seattle
Peterson, Carl H, For.....	Yakima
Peterson, Carrie H, Grad.....	Kellogg, Idaho
Peterson, Edith, Educ.....	Emmett, Idaho
Peterson, Elizabeth, Sci.....	Seattle
Peterson, Eliotese, LA.....	Seattle
Peterson, Elsie A, LA.....	Seattle
Peterson, Elva K, Sci.....	Seattle
Peterson, Harold O, LA.....	Seattle
Peterson, Hilma J, Bus.....	Mayville, ND
Peterson, Howard M, LA.....	Seattle
Peterson, Juliette, LA.....	Seattle
Peterson, J Kenneth, Bus.....	Honolulu, TH
Peterson, Luther, Engr.....	Seattle
Peterson, Martin, LA.....	Seattle
Peterson, Maynard L, Engr.....	Seattle
Peterson, Melanie, LA.....	Portland, Ore
Peterson, Myron, Bus.....	Seattle
Peterson, Ralph C, Engr.....	Seattle
Peterson, Robert W, Fsh.....	Seattle
Peterson, Rolf H, Engr.....	Spokane
Peterson, Roy L, LA.....	Seattle
Peterson, William C, Bus.....	Onalaska
Petkovits, Xenia, LA.....	Seattle

Petrick, Arnold A, Engr.....	Seattle
Pettigrew, Elizabeth, Educ.....	Cle Elum
Pettit, Henry M, Bus.....	Seattle
Pettit, Lester, LA.....	Seattle
Pettit, Robert, Bus.....	Aberdeen
Petty, William, Sci.....	Seattle
Pfeiffer, June Louise, LA.....	Seattle
Pfisterer, Elsa, LA.....	Seattle
Pfisterer, Elsie A, Sci.....	Seattle
Phelan, Grace E, LA.....	Seattle
Phelps, Hugh C, LA.....	Tacoma
Phelps, Saralette, LA.....	Seattle
Phillbrick, Harold C, LA.....	Seattle
Phillippi, Ralph, Engr.....	Boise, Ida
Phillips, Alleen, Sci.....	Odessa
Phillips, Alton V, Sci.....	Seattle
Phillips, Earl A, LA.....	Seattle
Phillips, F G, LA.....	Seattle
Phillips, Florence J, Grad.....	Seattle
Phillips, Joseph C, LA.....	Seattle
Phillips, Lillie, LA.....	Seattle
Phillips, Mary Louise, LA.....	Seattle
Phillips, Porter M, Engr.....	Seattle
Phillips, Rosamond J, FA.....	Seattle
Phillips, T Max, LA.....	Everett
Pickard, Ward L, LA.....	Seattle
Pidduck, Rupert J, Bus.....	Seattle
Pierce, Burton B, Jr, Bus.....	Seattle
Pierce, Clair, Sci.....	Olympia
Pierce, Donald F, Bus.....	Seattle
Pierce, Earl R, Engr.....	Seattle
Pierce, Elizabeth, LA.....	Medina
Pierce, Florence B, LA.....	Seattle
Pierce, Frank, LA.....	Seattle
Pierce, James R, LA.....	Los Angeles, Cal
Pierce, Mary Louise, FA.....	Seattle
Pierce, Maurice E, Engr.....	Wenatchee
Pierce, Winifred E, LA.....	Seattle
Piereson, Charles R, Bus.....	Seattle
Pike, Mark, For.....	Yakima
Pineo, Eleanor W, LA.....	Victoria, BC
Pinkham, Ada D, LA.....	Seattle
Pinkham, Anita, FA.....	Seattle
Pinkham, Harry, Bus.....	Tacoma
Pirret, Harold R, Bus.....	Tacoma
Pittman, Robert, LA.....	Seattle
Pittock, Marjorie A, LA.....	Portland, Ore
Pittock, Virginia, LA.....	Portland, Ore
Pixley, C M, Engr.....	Seattle
Place, Eunice, Bus.....	Seattle
Placek, Edward K, Bus.....	Seattle
Plamondon, Vivienne, FA.....	Seattle
Plank, George K, Engr.....	Seattle
Pless, Madeleine, Anita, FA.....	Seattle
Plimpton, Janet, LA.....	Seattle
Plimpton, Sherman, LA.....	Seattle
Plum, Lester V, LA.....	Yakima
Plumber, Robert H, Phar.....	Vancouver
Plummer, Stella, FA.....	Centralia
Plummer, Willis A, Bus.....	Port Townsend
Plymire, Reginald, Engr.....	Seattle
Poage, William K, Educ.....	Tacoma
Pohl, Russell Albert, Engr.....	Seattle
Polet, Emily, FA.....	Nome, Alaska
Polk, John George, Bus.....	Aberdeen
Polk, Margaret Esther, Sci.....	Seattle
Pollock, David E, Bus.....	Seattle
Pollock, Roy W, Fsh.....	Tacoma
Pollock, Robert N, Sci.....	Seattle
Polson, Genevieve, LA.....	Mt Vernon
Pomeroy, Allan, Sci.....	Seattle
Pontaleone, E Thelma, FA.....	Seattle
Pool, Stephen C, Sci.....	Phoenix, Ariz
Poole, Bonnie, Grad.....	Seattle
Porep, Helen Caroline, LA.....	Seattle
Porsch, R A, Bus.....	Roy
Porter, Allen S, Bus.....	Seattle
Porter, Charles A, Engr.....	Wenatchee
Porter, Dorothy, D, LA.....	Walla Walla
Porter, Emil J, Bus.....	Port Angeles
Porter, Frances, LA.....	Everett
Porter, John C, Jr, Engr.....	Seattle
Porter, John Lewis, Engr.....	Seattle
Porter, Josephine O, LA.....	Seattle
Porter, Rachel F, FA.....	Kellogg, Idaho
Porter, Robert D, Engr.....	Seattle
Porter, Ruth Alice, LA.....	Seattle
Porter, W L, LA.....	Wenatchee
Porter, William, Engr.....	Wenatchee
Posey, Naomi Mae, LA.....	Millwood
Post, Julia B, LA.....	Los Angeles, Cal
Poslavsky, Anatole, Engr.....	China
Potgeter, Fannie, Grad.....	Seattle
Potter, Alden, Bus.....	Ridgefield
Potter, Dorothy A, FA.....	Seattle
Potter, Helen Agnes, LA.....	Spokane
Potter, Herbert B, Educ.....	Blaine
Potter, Ruth Antoinette, Sci.....	Seattle
Potter, Willis, Law.....	Kalama
Potts, A H, Engr.....	Los Angeles, Cal
Potts, Helen Lea, LA.....	Coeur d'Alene, Ida
Potts, Margaret E, LA.....	Coeur d'Alene, Ida
Powell, Afton E, FA.....	Seattle
Powell, Emmogene, LA.....	Chehalis
Powell, Lillian A, LA.....	Seattle
Powell, J Theodore, LA.....	Selah
Power, Edward Allen, Fsh.....	Oak Harbor
Power, Geo R, LA.....	Seattle
Power, Laurin Willis, Bus.....	Oak Harbor
Power, Marie M, Grad.....	Seattle
Prasch, Rita Marie, FA.....	Seattle
Pratt, Dorothea, FA.....	Seattle
Pratt, Emma G, LA.....	Seattle
Pratt, Marcus W, LA.....	Pullman
Pratt, Russel E, Bus.....	Salem, Ore
Predmore, Alice E, LA.....	Seattle
Prentice, Dudley, Bus.....	Auburn
Preston, Harold C, FA.....	Seattle
Preston, M E, Engr.....	Seattle
Preston, Platt W, LA.....	Seattle
Prestridge, Emily, LA.....	Seattle
Prestridge, H M, Sci.....	Seattle
Prevost, Albert, Bus.....	Seattle
Price, Marion, LA.....	Seattle
Price, Rebecca A, LA.....	Boise, Ida
Price, Russell, LA.....	Tacoma
Price, Veda, FA.....	Tacoma
Priebe, Lloyd H, Engr.....	Renton
Prichard, Lewis G, Bus.....	Bremerton
Priem, Virginia, LA.....	Seattle
Prim, John E, Law.....	Seattle
Pritchard, Irma, LA.....	Seattle
Pritchard, Margaret, Sci.....	Mercer Island
Pritchard, Mary, Sci.....	Seattle
Proffitt, Dean, Bus.....	Centralia
Proffitt, Lehman, Bus.....	Centralia
Prottas, George, Bus.....	Seattle
Pruzan, Jack, FA.....	Seattle
Pruett, Ellen, Sci.....	Whitehall, Mont
Pugsley, Frances, Sci.....	Yelm
Pullen, Mary E, LA.....	Skagway, Alaska
Pulver, Elliott, Bus.....	Aberdeen
Purdy, Harry L, Grad.....	Vancouver, BC
Purves, Nell H, Edu.....	Arlington
Putnam, Gertrude E, LA.....	Alderwood Manor
Putnam, Ruth A, LA.....	Seahurst Park
Putnam, Stanley E, LA.....	Tonasket
Quast, Thomas, Fsh.....	Marysville
Quesenberry, Miriam, LA.....	Seattle
Quickstad, Joel E, Bus.....	Seattle
Quigley, Bernice, Sci.....	Seattle
Quigley, Dorothy M, LA.....	Seattle
Quigley, Margaret Helen, Edu.....	Seattle
Quigley, Marion L, LA.....	Boise, Ida
Quigley, Ruth, LA.....	Seattle
Quinlan, Bernice, Sci.....	Seattle
Quinn, Kathleen Mary, Sci.....	Seattle
Quinnell, Henry, Engr.....	Seattle
Quistorff, Wallace W, Engr.....	Gig Harbor



Raban, Adelyne, L.A.	Seattle	Redmyer, Ingeborg E, L.A.	Friday Harbor
Rabel, Irvine B, F.A.	Seattle	Redpath, Catherine, L.A.	Olympia
Rabel, Marjorie, Sci.	Seattle	Reed, Caroline, Sci.	Bellingham
Raber, Ruth M, L.A.	Tacoma	Reed, Conner O, Jr, Sci.	Bellingham
Rachmanoff, Boris A, F.A.	Seattle	Reed, Donald, Engr.	Centralia
Racine, Marguerite, L.A.	Seattle	Reed, Frank L, Phar.	Seattle
Rader, John E, Engr.	Philippines	Reed, Gall, Bus.	Redmond
Rader, Katherine, L.A.	Waterville	Reed, Genevieve, Grad.	Redmond
Rader, Melvin, Grad.	Walla Walla	Reed, Ruth, Bus.	Redmond
Rader, Norval, Bus.	Spokane	Reed, Sherwood H, L.A.	Seattle
Radford, Zilpha E, L.A.	Seattle	Reed, William G, L.A.	Shelton
Radlin, Carl, Engr.	Seattle	Reeder, Genevieve M, L.A.	Seattle
Rae, Doris, Law.	Seattle	Reeder, Thomas A, F.A.	Seattle
Rae, Francis H, Bus.	Seattle	Reedy, Franklin A, L.A.	Seattle
Rafn, A Morris, Sci.	Puyallup	Reedy, Katharine, L.A.	Seattle
Rafter, Philip, L.A.	Seattle	Reedy, Ramona, L.A.	Seattle
Ragan, Leland J, Bus.	Seattle	Reekle, Richard D, Phar.	Seattle
Ragsdale, Clinton R, Bus.	Seattle	Reep, Raymond T, Bus.	Everett
Rahe, Florence M, L.A.	Seattle	Reese, Ralph V, L.A.	Seattle
Raichle, Marcus, Law.	Yakima	Reese, Russell E, L.A.	Seattle
Raine, Margaret M, Grad.	Seattle	Reeve, Stanley J, Bus.	Chico
Raine, William T, Engr.	Bellevue	Reeve, Varney, Engr.	Los Angeles, Cal
Raitt, Janet M, Sci.	Pasadena, Cal	Reeves, Elizabeth A, F.A.	South Bend
Ralewitz, Sarah, L.A.	Seattle	Reeves, James, Bus.	Seattle
Ralkowski, Stanley, L.A.	Seattle	Reeves, Mary Ellen, L.A.	Peshastin
Ralls, Charlotte, L.A.	Everett	Reeves, Wilfred L, L.A.	Vashon
Ralls, Roberta, L.A.	Seattle	Refling, Norman, L.A.	Snohomish
Ranjo, Teodoro, Bus.	Seattle	Regan, Louis C, For.	Oakdale
Ramm, Dorothy, Edu.	Galena, Kans	Reichert, Marguerite, Sci.	Seattle
Ramm, John B, Engr.	Seattle	Reid, Alice, L.A.	Seattle
Ramm, Lawrence, Bus.	Seattle	Reid, George Melville, Bus.	Ellensburg
Ramos, Manuel S, Edu.	Philippines	Reid, Melvin D, L.A.	Seattle
Ramquist, Reuel T, Sci.	Vashon	Reid, Mildred, F.A.	Everett
Ramsey, Guy R, For.	Seattle	Reid, Edgar F, Grad.	Seattle
Ramstead, Julius, Engr.	Wallace, Ida	Reid, William T, Engr.	Seattle
Ramstedt, Mary E, L.A.	Wallace, Ida	Reiley, Sarafances, F.A.	Seattle
Randal, E G, Grad.	Seattle	Relly, John E, Law.	Seattle
Randall, Arthur, Bus.	Seattle	Reine, Gertrude, Sci.	Bothell
Randall, Charlotte F, Sci.	Seattle	Reinhart, C Madeline, L.A.	Seattle
Randall, Helen Jean, L.A.	Spokane	Reinken, Christine R A, L.A.	Bothell
Randall, Helen Mae, Sci.	Seattle	Reise, Herman, Engr.	Puyallup
Randles, Vera, F.A.	Burlington	Reisig, Evelyn M, F.A.	Seattle
Rankin, Elwood H, F.A.	Seattle	Reiter, Bernard, Law.	Seattle
Ranney, Daniel A, Fsh.	Seattle	Remigallo, Vladimir, Engr.	Siberia, Russia
Rao, D Narasimha M, Grad.	India	Remley, Elizabeth, F.A.	Dryden
Rapp, Clyde E, F.A.	Seattle	ReinsuJeff, John W, L.A.	Olympia
Rapp, Margaret C, Bus.	Vancouver	Remy, Evelyn, F.A.	Seattle
Rapraeger, Elmer F, For.	Wausau, Wis	Remy, Frances, L.A.	Seattle
Rardon, Marie, F.A.	Seattle	Renn, Ruth, L.A.	Chelan
Rarig, Max H, L.A.	Seattle	Renn, Vivian, L.A.	Chelan
Rasmussen, Elmer, L.A.	Skagway, Alaska	Reneau, Emily C, L.A.	Seattle
Rasmussen, Evangeline, L.A.	Skagway, Alaska	Renhard, Julius A, Engr.	Aberdeen
Rasmussen, Charles A, Engr.	Tacoma	Rennoe, Hazel May, Grad.	South Bend
Rasmussen, John A, Fsh.	Sultan	Reno, Franklin B, L.A.	Bellingham
Rasmussen, Winfield A, Engr.	Sultan	Reno, W Porter, L.A.	Seattle
Rathbun, Elizabeth, Sci.	Seattle	Renshaw, Isabel, F.A.	Spokane
Ratcliff, Coralie E, L.A.	Seattle	Renshaw, Mildred B, Educ.	Spokane
Ratigan, Thomas P, Grad.	Seattle	Renshaw, Minard, Sci.	Wenatchee
Rattray, Marjorie, Sci.	Seattle	Renwick, Edward C, Law.	Seattle
Raudenbush, George C, L.A.	Tacoma	Requa, Earl F, L.A.	Everett
Raudenbush, Lenora M, Bus.	Tacoma	Retzer, Lawrence, Bus.	Seattle
Raudenbush, Nellie L, Bus.	Tacoma	Revelle, Margaret, L.A.	Seattle
Raum, Dorothy, Educ.	Seattle	Reyes, Benifino T, Educ.	Philippines
Rauschert, Bryan L, Engr.	Stadium	Reynolds, John T, Engr.	Bellingham
Rautenberg, A, Engr.	Bothell	Reynolds, Norman, L.A.	Seattle
Rawlins, Jack S, Sci.	Seattle	Reynolds, Robert M, Engr.	Pocatello, Ida
Rawson, Charlotte, F.A.	Seattle	Rhind, Earl S, Sci.	Seattle
Rawson, Frances, F.A.	Puyallup	Rhodes, Dorothy Marie, L.A.	Seattle
Ray, Ruth, Sci.	Seattle	Rhodes, Fred H, Jr, Engr.	Seattle
Ray, Verne F, L.A.	Seattle	Rhodes, Helen H, L.A.	Seattle
Raymond, Ethel Gertrude, L.A.	Olympia	Rice, Maud Ruth, Grad.	Seattle
Rayner, Barbara, L.A.	Seattle	Rich, Ancil J, For.	Appleton, Wis
Raynor, Edna M, Sci.	Victoria, BC	Richards, Edwin E, For.	Port Townsend
Reading, Ruth, L.A.	Seattle	Richards, John G, F.A.	Tacoma
Reams, Harold, Sci.	Langley	Richards, Leon W, Grad.	Seattle
Reardon, Kelron W, Law.	Monroe	Richards, Marietta, L.A.	Seattle
Rebodos, Macario C, Bus.	Tleton	Richards, Marjora, L.A.	Richmond Beach
Redden, Dan J, L.A.	Clarkston	Richards, Thelma, L.A.	Chinook, Mont
Reddenbaugh, Dorothy D, Educ.	Seattle	Richards, William, Jr, L.A.	Seattle
Redfield, Ben Z, Sci.	Yakima	Richardson, Carl T, Sci.	Seattle
Redman, Kenneth, Phar.	Melbourne	Richardson, Elroy L, Engr.	Lamona

Richardson, Ethel Marie, LA.....	Seattle
Richardson, Gareth, LA.....	Yakima
Richardson, George G, Engr.....	Hilo, Hawaii
Richardson, Gordon B, Sci.....	Seattle
Richardson, Ingels, Engr.....	Tacoma
Richardson, Wallace A, Bus.....	Tacoma
Richenstein, G Dale, Sci.....	Seattle
Riches, Doris E, Bus.....	Longview
Richford, M A, Engr.....	San Francisco, Cal
Richman, Ethel, Sci.....	Anchorage, Alas
Richmond, Claude, LA.....	Scottsbluff, Nebr
Richmond, Volney, Jr, Sci.....	Seattle
Richter, Keith, Bus.....	Los Angeles, Cal
Richter, Leo C, Phar.....	Puyallup
Richter, Ottilie Frances, FA.....	Tacoma
Richter, Roland P, Bus.....	Vancouver
Rickard, Richard M, LA.....	Seattle
Rickerts, Helen L, LA.....	Butte, Mont
Rideous, Lucile, Sci.....	Chelan
Riebe, Edmund A, Bus.....	Seattle
Rieger, Erwin, Jour.....	Seattle
Rieger, G Fred, LA.....	Boise, Ida
Riewe, Herbert, FA.....	Auburn
Rigg, Charlotte, FA.....	Seattle
Rigg, Raymond R, Sci.....	Seattle
Riggs, Gwendolyn, LA.....	Seattle
Riley, Betty, LA.....	Bellingham
Riley, Marcene, LA.....	Idaho Falls, Ida
Rilmann, Hans, Sci.....	Merriam, Kan
Ring, Jack M, Fsh.....	Seattle
Ring, Viola Vivian, LA.....	Tacoma
Ringrose, Harold, LA.....	San Francisco, Cal
Ringrose, Rhody, LA.....	Seattle
Rinkel, Margaret C, FA.....	Seattle
Rinker, Harry G, Bus.....	Seattle
Ripley, Betty, FA.....	Seattle
Ripley, Cecil, Bus.....	Seattle
Ripley, George, For.....	Seattle
Ripley, Mary, Bus.....	Seattle
Riseland, Alice E, Bus.....	Bellingham
Rising, Louis W, Grad.....	Seattle
Risk, Clyde, Bus.....	Seattle
Risk, Lee, Bus.....	Seattle
Riss, Arthur H, Grad.....	Seattle
Riss, Eleanor G, FA.....	Seattle
Risser, David, Bus.....	Seattle
Riste, Donald E, Bus.....	Seattle
Riste, Victor E, LA.....	Seattle
Rivera, Andres D, Sci.....	Philippines
Rivers, Kendric, Engr.....	Portage
Rivers, Kenneth F, Engr.....	Portage
Rivers, Ralph J, Law.....	Fairbanks, Alaska
Roadnight, Margaret, LA.....	Spokane
Roake, Sara Louise, LA.....	Seattle
Roatz, John, Fsh.....	Seattle
Robasse, Evelyn, Sci.....	Harrington
Robb, Betty Stewart, LA.....	Seattle
Robb, Marian S, Grad.....	Seattle
Robbins, Franc, LA.....	Buffalo, Wyo
Robbins, Fred M, For.....	Tacoma
Roberts, Betty S, LA.....	Tacoma
Roberts, C B, For.....	Seattle
Roberts, Eleanor, LA.....	Seattle
Roberts, Ellis A, Engr.....	Seattle
Roberts, John A, Engr.....	Spokane
Roberts, John R, For.....	Seattle
Roberts, Joseph D, LA.....	Seattle
Roberts, H Kenneth, LA.....	Portland, Ore
Roberts, Loel D, Phar.....	Seattle
Roberts, Mary C, Grad.....	Seattle
Roberts, Maud E, Educ.....	Seattle
Roberts, Robert F, LA.....	Seattle
Roberts, William J, LA.....	Kendahl
Robertson, C V, FA.....	Seattle
Robertson, Dana A, LA.....	Seattle
Robertson, Hazel, LA.....	Seattle
Robertson, James C H, For.....	Seattle
Robertson, F Kenneth, Bus.....	Cashmere
Robertson, Peter R, For.....	Buckley
Robinson, Alton B, Grad.....	Seattle
Robinson, Benjamin, LA.....	Centralia
Robinson, Clyde A, LA.....	Pinehurst
Robinson, Dorothy, Sci.....	Seattle
Robinson, G Douglas, Sci.....	Seattle
Robinson, George, Bus.....	Seattle
Robinson, Grace H, LA.....	Seattle
Robinson, Miriam, LA.....	Seattle
Robinson, Roal S, Bus.....	Tacoma
Robinson, Salome, LA.....	Ashton, Ida
Robinson, Wallace, For.....	Seattle
Robison, B B, Edu.....	Bellingham
Robson, Wesley, LA.....	Spokane
Rock, Estella C, FA.....	Seattle
Rockefeller, Charles A, Engr.....	Enumclaw
Rockwell, Capitola, FA.....	Seattle
Rodgers, Marcus D, Engr.....	Eute, Mont
Rodgers, Roe Parker, Engr.....	Seattle
Rodman, Margaret C, Grad.....	Nampa, Ida
Roe, Howard E, Sci.....	Auburn
Roe, Muriel, LA.....	Seattle
Roehm, Eugene, Engr.....	Tacoma
Roehr, Margaret, LA.....	Seattle
Rogers, Anabel Mary, LA.....	Gt Falls, Mont
Rogers, Catherine A, Sci.....	Seattle
Rogers, Helen I, LA.....	Seattle
Rogers, James Phar.....	Seattle
Rogers, John C, Bus.....	Wallace, Ida
Rogers, Katharine Frances, Sci.....	Seattle
Rogers, Marian, Sci.....	Snohomish
Rogers, Russell, Bus.....	Spokane
Rogg, J Vern, LA.....	Dayton
Rognan, Ruth, FA.....	Seattle
Rogozina, Raisa, LA.....	China
Rohlfs, Marcus, LA.....	Seattle
Rohne, Lyle C, LA.....	Seattle
Rohovits, Gerald M, Grad.....	Seattle
Rohrbeck, Catherine, FA.....	Seattle
Rohrbough, Marie, LA.....	Tacoma
Rohrer, Ross J, FA.....	Seattle
Rojas, Felix, Sci.....	Nueva Vizcaya, PI
Rojas, Juan C, Engr.....	Philippines
Rojo, Trinidad, LA.....	Philippines
Roll, Gladys G, LA.....	Shelton
Roney, Ward William, Law.....	Seattle
Rood, Sidney, LA.....	Seattle
Roose, Clarence N, LA.....	Arlington
Roper, Otis, Engr.....	Yacolt
Roscoe, R Theodore, Engr.....	Edmonds
Rose, Jean, LA.....	Seattle
Rose, Jerome J, Bus.....	Seattle
Rose, Keith R, Bus.....	Molson
Rose, Marian P, LA.....	Aberdeen
Rose, Robert, LA.....	Olympia
Rose, Vander J, LA.....	Seattle
Rosellini, Dean, LA.....	Tacoma
Rosen, Siegfried, LA.....	Seattle
Rosen, William, LA.....	Seattle
Rosenbarger, Paul E, FA.....	Bremerton
Rosenbaum, Adrian, LA.....	Seattle
Rosenbaum, Joseph H, LA.....	Seattle
Rosenbaum, Nathan J, Bus.....	Seattle
Rosenberg, Dorothea H, LA.....	Spokane
Rosenberg, Naomi Sima, LA.....	Spokane
Ross, Arthur Raymond, Fsh.....	Seattle
Ross, Bruce W, Engr.....	Seattle
Ross, Frank L, Bus.....	Seattle
Ross, Harriett, LA.....	Seattle
Ross, Joe E, LA.....	Seattle
Ross, John R, FA.....	Boise, Ida
Ross, Katherine, LA.....	Aberdeen
Ross, Llewellyn, Sci.....	Eugene, Ore
Ross, Margaret Mary, Sci.....	Hawaii
Rossell, Franklin F, Law.....	Seattle
Rosser, Elvin Thomas, LA.....	Stanwood
Rossmann, Kathryn, LA.....	Portland, Ore
Rosted, Daniel P, For.....	Seattle
Rosummy, Max, LA.....	Seattle
Rothrock, Ralph A, Bus.....	Cosmopolis
Roth, Alexander, Sci.....	Seattle
Rotta, Allen E, Engr.....	Seattle
Round, Don W, Sci.....	Olympia

Rounsefell, George A. Grad.....	Seattle	Sampson, Eugene G. LA..	Marshfield, Ore
Roupe, Dorothy E. FA.....	Nezperce, Ida	Sampson, Evelyn M. LA..	Ketchikan, Alas
Rousseau, Imogene, Grad..	Wis Rapids, Wis	Samson, Roy S. Engr.....	Bellingham
Rovellstad, Trygve A. FA.....	Elgin, Ill	Samson, Victor, LA.....	Seattle
Rovig, Helen, LA.....	Seattle	Sanchez, Isabelo G. Sci.....	Philippines
Rowe, Helen, LA.....	Libby, Mont	Sandall, Loretta, LA.....	Seattle
Rowe, Roymond, LA.....	Northport	Sandberg, Stanley V. LA.....	Seattle
Rowell, Irving H. Engr.....	Seattle	Sandbrink, Alice M. LA.....	Ritzville
Rowse, William, For.....	Seattle	Sandell, Alice, FA.....	Seattle
Royal, Lloyd A. Fsh.....	Seattle	Sanders, Bernadine, Sci.....	Bremerton
Royer, Catherine, Grad.....	Seattle	Sanders, Mary M. LA.....	Entiat
Roys, Minnie, Sci.....	Xpsllanti, Mich	Sandholtz, Evelyn, Bus.....	Seattle
Royster, Helen, LA.....	Seattle	Sandifer, C Paul, LA.....	Aberdeen
Rozema, Frances, FA.....	Seattle	Sandifur, Priscilla, FA.....	Seattle
Rozema, Paul, Engr.....	Seattle	Sandner, Lucile, Sci.....	Tacoma
Rucker, Donald E. Fsh.....	Seattle	Sandquist, Carl, LA.....	Seattle
Rucker, Jasper, LA.....	Everett	Sandstrom, Robert L. Bus.....	Oakland, Cal
Rucker, Margaret, LA.....	Everett	Sandvigen, Ingalv A. LA.....	Seattle
Ruckles, Dee, Bus.....	Kalama	Sanford, Henry S. Bus.....	Seattle
Ruddell, Hazel, LA.....	Seattle	Sanford, Marcus, Engr.....	Pomeroy
Rudisill, Joan, Sci.....	Boise, Ida	Sangster, Theodore M. Bus.....	Seattle
Rue, Laila Ruth, Edu.....	Bellingham	Sankela, William E. For.....	Ilwaco
Rue, Walter, LA.....	Seattle	Sargent, C Stewart, Engr.....	Seattle
Rueger, Clarence R. For.....	Seattle	Sargent, Harrison P. LA.....	Seattle
Ruff, Frank, LA.....	Seattle	Sarki, Lillie, LA.....	Northport
Ruffcorn, Geraldine, FA.....	Seattle	Sarvela, George, Fsh.....	Sitka, Alaska
Ruggles, Henry, Grad.....	Seattle	Sather, Edgar W. Bus.....	Seattle
Ruidl, Philip F. Edu.....	Cheney	Sather, Florence, LA.....	Seattle
Rummen, Wm S. LA.....	Seattle	Sather, Kenneth, LA.....	Mt Vernon
Rundall, John, LA.....	Seattle	Sato, Kimiji, Engr.....	Seattle
Runner, Melvin E. Bus.....	Oakland, Calif	Sato, Makoto, Engr.....	Seattle
Runte, Jim, Bus.....	Seattle	Saunders, Nan, Sci.....	Seattle
Rupp, Alice G. LA.....	Seattle	Saunders, Virginia, LA.....	Seattle
Rupp, Lois, Bus.....	Seattle	Saunders, Wilbert, (Engr.....	Kelso
Rupp, Virginia, FA.....	Seattle	Savage, Anne, LA.....	Seattle
Russell, A. D. Engr.....	Oakdale	Savage, Audrey, FA.....	Calgary, Alta
Russell, Alice Pearl, LA..	Great Bend Kan	Savage, George Milton, Jr. LA.....	Tacoma
Russell, Betty, FA.....	Seattle	Savage, Margaret E. Sci.....	Tacoma
Russell, Beulah, Grad.....	Seattle	Savage, Thomas, LA.....	Birdsview
Russell, Henry, LA.....	Tenino	Savery, Barnett, LA.....	Seattle
Russell, Mary Ellen, Sci.....	Seattle	Sawyer, David H. For.....	Grandview
Russell, Roy N. Bus.....	Chewelah	Saxton, Ralph C. Jr.....	Seattle
Russell, G Vernon, FA.....	Bernardino, Cal	Sayre, Ellnore, FA.....	Seattle
Russell, Walter Harold, Engr.....	Spokane	Scaman, John, LA.....	Wenatchee
Russo, Sam J. Bus.....	Seattle	Scanlon, Virginia, LA.....	Seattle
Rustia, Manuel S. Grad.....	Philippines	Scarborough, Dorothee, LA.....	Olympia
Rutherford, Dorothy A. LA.....	Seattle	Scarborough, Louis, LA.....	Olympia
Rutledge, C E. Engr.....	Bryn Mawr	Scardiclone, Matthew, Grad.....	Spain
Rutledge, James A. Sci.....	Bremerton	Schacht, Richard F. LA.....	Burlington
Rutter, Beatrice, Educ.....	Spokane	Schade, Robert J. Bus.....	Seattle
Ryan, Burns, LA.....	Seattle	Schaefer, Oscar, Bus.....	Seattle
Ryan, Clayton W. LA.....	Cheney	Schaeffer, Claude E. LA.....	Seattle
Ryan, Eileen K. Sci.....	Wallace, Ida	Schafer, Louis R. Engr.....	Bellevue
Ryan, Florence T. LA.....	Seattle	Schaffer, Norwood K. Sci.....	Seattle
Ryan, Frank W. LA.....	Bremerton	Scharpenberg, Paul F. LA.....	La Crosse
Ryan, Geraldine, LA.....	Seattle	Schatz, Lester E. LA.....	Woodland
Ryan, Grace, LA.....	Stanwood	Schatz, Milton, Pharm.....	Seattle
Ryan, James G. Sci.....	Vancouver	Scheffer, Theodore C. Grad.....	Puyallup
Ryan, James M. Engr.....	Seattle	Schegolkov, Victor, Engr.....	Seattle
Ryan, John J C. LA.....	Seattle	Scheibberger, Anne, Sci.....	Seattle
Ryan, Katherine, Bus.....	Castle Rock	Schell, Theodore, Sci.....	Seattle
Ryan, Maurice F. Bus.....	Fraser Mills, BC	Schellenger, Kathryn, LA.....	Raston
Ryan, Vera K. Bus.....	Shoshone, Ida	Schellin, Albert, For.....	Seattle
Ryder, Edmund, Engr.....	Seattle	Scheuch, Margaret, Sci.....	Zenith
Ryder, John N. LA.....	Seattle	Scheurman, Ruby, LA.....	Seattle
Ryder, John T. FA.....	Bonnors Ferry, Ida	Schenmann, V R. Engr.....	Seattle
Ryno, John R. Engr.....	Seattle	Schibig, Walter J. Bus.....	Wapato
Ryus, Ruth L. FA.....	Seattle	Schickling, Richard, Bus.....	Seattle
		Schietlin, Frieda M. LA....	Glendale, Mont
		Schimke, Harold, Sci.....	Odessa
		Schimke, Leo, Phar.....	Odessa
Saari, Joseph, Sci.....	Battleground	Schindler, Ernest, Engr.....	Seattle
Sahl, Walter A. LA.....	Hoquiam	Schlag, Theodore R. Engr.....	Seattle
Sahlin, Carl V. Engr.....	Anacortes	Schlageter, Frederick C. Engr.....	Bremerton
Saint-Amour, Robinson, For.	Cleveland, Ohio	Schlag, Elizabeth, LA.....	Tacoma
Sakai, Thomas, Sci.....	Seattle	Schlegel, M Hoover, Bus.....	Everett
Sakuma, A. Y. Grad.....	Japan	Schlegel, William B. Bus.....	Tacoma
Salisbury, Albert P. LA.....	Seattle	Schlicting, Hugh R. Bus.....	Davenport
Salladay, Helen F. LA.....	Joseph, Ore	Schlicting, Pat, LA.....	Davenport
Salladay, Thelma, Sci.....	Joseph, Ore	Schlosstein, Clifford, LA.....	Yakima
Salvesen, Sigurd, For.....	Seattle	Schlund, Dorothy, FA.....	Tacoma
Sampson, Alvena Louise, LA.....	Seattle		

Schmid, Calvin F, Grad.....	Seattle	Sebastian, Sinfaroso, Sci.....	Philippines
Schmid, Carl K, LA.....	Seattle	Secrest, Ruth, FA.....	Seattle
Schmid, Dorothy, LA.....	Edmonds	Sedgwick, Thomas D, LA.....	Tacoma
Schmidt, Loring, LA.....	Idaho Falls, Ida	Seecamp, Nedra G, FA.....	Seattle
Schmidt, C Robert, Sci.....	Creston	Seel, Kathryn Jane, FA.....	Tacoma
Schmidt, Vivian, Sci.....	Long Beach, Calif	Seeliger, Clarence, Bus.....	Seattle
Schmitz, Ferdinand, Jr, For.....	Seattle	Seeley, James S, Phar.....	Vancouver, BC
Schmoyer, Clyde L, Bus.....	Seattle	Seely, Harold, Sci.....	Seattle
Schneider, Robert J, Bus.....	Shepherdst'n, WVa	Segerstrom, Edna C, Bus.....	Seattle
Schneider, William E, LA.....	Seattle	Seidell, Fred, LA.....	Sedro-Woolley
Schneiderman, Harry, LA.....	Kelso	Seidell, Stanley A, LA.....	Sedro-Woolley
Schoeggle, Carl, Bus.....	Winlock	Seidenfeld, Morton A, Phar.....	Seattle
Schenk, Edward R, LA.....	South Bend	Seidenverg, Sanford, LA.....	Seattle
Schenk, Elizabeth, LA.....	South Bend	Selfert, Helen, LA.....	Bremerton
Schenken, Robert, Educ.....	Seattle	Seljas, A, LA.....	Seattle
Schermerhorn, Lee R, Engr.....	Seattle	Selmensky, Dmitry, Engr.....	Seattle
Schench, Carl W, Jr, Law.....	Zenith	Selstrom, Ivan F, Engr.....	Great Falls, Mont
Schoettler, Robert J, Bus.....	Seattle	Semb, Balwen A, Sci.....	Puyallup
Scholl, Frances, LA.....	Mercer Island	Semon, Darrell, Bus.....	Eugene, Ore
Scholl, Miriam, LA.....	Seattle	Senior, Carl N, Bus.....	Seattle
Schonhard, George, Bus.....	Seattle	Sennes, Gertrude J, Grad.....	Tacoma
Schooley, Harold A, Phar.....	Seattle	Sensenig, Kathryn, LA.....	Boise, Ida
Schoppe, Mary H, FA.....	Santa Monica, Cal	Serrurier, Beulah, LA.....	Lynden
Schrader, Neva L, Edu.....	Seattle	Settem, Clara Olive, Grad.....	Cathlamet
Schrock, Clarice, FA.....	Okanogan	Settem, Elizabeth L, Sci.....	Knappton
Schroeder, Ellen, LA.....	Seattle	Settergren, Maxwell G, Bus.....	Seattle
Schroeder, Karsten A, Bus.....	Cottonwood, Ida	Setzer, Maurice R, Bus.....	Tacoma
Schroeder, Marvin L, LA.....	Seattle	Seufert, Edra Anne, LA.....	The Dalles, Ore
Schubert, Emil, LA.....	Tacoma	Severance, Gladys S, FA.....	Seattle
Schuch, LeRoy, Sci.....	Everett	Severance, Ruth B, LA.....	Donald
Schuh, LeRoy, Educ.....	Everett	Severin, Roy T, Bus.....	Seattle
Schultheis, Frederic, For.....	Seattle	Sevidal, Benigno S, LA.....	Philippines
Schultz, Carolyn D, LA.....	Spokane	Sewall, Betty R, LA.....	Portland, Ore
Schultz, Enid S, FA.....	Seattle	Sexton, Harold Joseph, Engr.....	Seattle
Schumacher, Walter C, FA.....	Shelton	Sey, Harriet Ann, LA.....	Douglas, Alas
Schuman, Harry L, LA.....	Bellingham	Sey, Martha, Sci.....	Douglas, Alas
Schuman, Sara H, FA.....	Bellingham	Seymour, Mark, Bus.....	Seattle
Schumer, Anne, Bus.....	Seattle	Seymour, Russell J, Bus.....	Seattle
Schumer, Helen, LA.....	Seattle	Shafer, Katherine, LA.....	Seattle
Schunke, Gustave B, Sci.....	Seattle	Shaffer, Clarence A, LA.....	Camas
Schusman, Dorothy, Educ.....	Snoqualmie	Shaffer, Ralph C, LA.....	Portland, Ore
Schuss, Albert G, Law.....	Seattle	Shager, Grant H, Sci.....	Seattle
Schuss, Charles N, Bus.....	Chehalis	Shagren, Margaret P, LA.....	Lynden
Schwager, Lewis, Jr, LA.....	Seattle	Shallit, Rebecca, LA.....	Seattle
Schwartz, Charles, Phar.....	Seattle	Shanafelt, William A, Law.....	Sunnyside
Schwartz, Belda, Sci.....	Seattle	Shanahan, Daniel J, LA.....	Seattle
Schwartz, Nadine, FA.....	Seattle	Shank, Corwin Phillip, LA.....	Seattle
Schwarz, Eleanor, FA.....	Seattle	Shank, Edward, LA.....	Long Beach
Schwarz, Harvey, Sci.....	Seattle	Shanklin, Mearle M, LA.....	Tacoma
Schweitzer, Carl A, Bus.....	Seattle	Shannon, Dee, LA.....	Seattle
Seofield, Irene, Sci.....	Seattle	Shannon, Henry A, LA.....	Seattle
Seones, Phyllis E, Educ.....	Seattle	Shannon, James F, Grad.....	Seattle
Scott, Clayton Allen, Sci.....	Seattle	Shannon, Margaret, LA.....	Wenatchee
Scott, Dorothy A, LA.....	Seattle	Shanstrom, Helen, LA.....	Seattle
Scott, Earl D, Engr.....	Seattle	Sharick, George Orton, Law.....	Tacoma
Scott, Elsie M, LA.....	Twisp	Sharp, Glenna F, LA.....	Seattle
Scott, Harlan, LA.....	Spokane	Sharpe, Gertrude E, FA.....	Portland, Ore
Scott, Herbert J, Engr.....	Seattle	Shattuck, Curtis G, LA.....	Juneau, Alas
Scott, Hilda I, Sci.....	Seattle	Shaughnessy, Albert, FA.....	Auburn
Scott, John, FA.....	Portland, Ore	Shaw, Alan F, LA.....	Seattle
Scott, J Cosmo, Sci.....	Seattle	Shaw, Clayton B, Grad.....	Spokane
Scott, Lucile E, Sci.....	Tacoma	Shaw, Hugh W, LA.....	Canada
Scott, Mary Katherine, FA.....	Hood River, Or	Shaw, James Maurice, FA.....	Seattle
Scott, Mathea T, LA.....	Seattle	Shaw, Marian, LA.....	Everett
Scott, Myron A, For.....	Mukilteo	Shaw, Marian E, FA.....	Seattle
Scott, Norman, Sci.....	Tacoma	Shaw, Mildred Dick Sci.....	Tacoma
Scott, Peggy, LA.....	Seattle	Shaw, Richard, Jour.....	San Francisco, Cal
Scott, Ralph C, Bus.....	Seattle	Shaw, Robert A, LA.....	Seattle
Scott, R M, Engr.....	Seattle	Shaw, T Harold, Engr.....	Seattle
Scott, Sara, Sci.....	Vancouver	Shaw, Virgil F, LA.....	Seattle
Scott, Viret, LA.....	Seattle	Shaw, Frances G, FA.....	Seattle
Scott, Winfield C, For.....	Camas	Shear, Thelma E, FA.....	Hoquiam
Scott, Winston, Sci.....	Wenatchee	Shearer, E Desmond, LA.....	Seattle
Seville, June I, LA.....	Seattle	Shearer, Florence, Sci.....	Auburn
Seville, Ray R, Engr.....	Seattle	Sheehan, Mary Isabel, LA.....	Seattle
Seudder, Helen, Sci.....	Melba, Idaho	Sheehan, Rosamond C, FA.....	Seattle
Seabury, Helen, LA.....	Seattle	Sheets, Hilma Ilene, FA.....	Seattle
Seabury, Jessie M, LA.....	Seattle	Sheldon, Mary Elizabeth, Bus.....	Seattle
Searles, Homer, Bus.....	Glendale, Cal	Shellenberger, John A, Sci.....	Seattle
Searls, Helen E, LA.....	Seattle	Sheller, Dorothy E, LA.....	Everett
Sears, Edith K, LA.....	Deer Lodge, Mont	Shelley, William, LA.....	Seattle
		Shelton, Helen, LA.....	Seattle

Shelton, Leland S., LA.....	Ferndale	Simmons, Katharine, Sci.....	North Bend
Shepard, Charles R., Bus.....	Everett	Simmons, Lavina E., FA.....	Seattle
Shepard, Evelyn, LA.....	Puyallup	Simon, Henrietta, LA.....	Seattle
Shepard, Glen B., Engr.....	Seattle	Simonsen, Ove, Engr.....	Bellingham
Shepard, Homer, Bus.....	Spokane	Simonsen, Rasmus, Law.....	Anchorage
Shepard, Elizabeth M., Sci.....	Wenatchee	Simpkin, Muriel, FA.....	Seattle
Shepard, Mary T., Sci.....	Wenatchee	Simpson, Clara A., LA.....	Seattle
Sheppard, Margery J., Sci.....	Victoria, BC	Simpson, Elizabeth, LA.....	Seattle
Sheppard, Ardice, Bus.....	Kennewick	Simpson, Lurline V., Grad.....	Seattle
Shera, Madge, LA.....	Tacoma	Sims, Bertha May, Edu.....	Victoria, BC
Sheriff, Joseph M., Engr.....	Seattle	Singer, Harold, LA.....	Portland, Ore
Sherman, George W., Edu.....	Bellingham	Singson, Ceferino S., Engr.....	Philippines
Sherman, John L., Engr.....	Dayton, Ore	Singson, Juan D., Min.....	Philippines
Sherman, Leslie Allen, Bus.....	Everett	Sippel, Lucille, Sci.....	Seattle
Sherman, Miriam F., Edu.....	Bellingham	Sisemore, L Orth, LA.....	Ft Klamath, Ore
Sherman, Winifred, LA.....	Cheney	Sister Albertina, Educ.....	Seattle
Sherrill, Mildred, Sci.....	Tacoma	Sisler, Bernice Myrtle, Sci.....	Seattle
Sheviakov, George V., LA.....	Seattle	Sisler, Dorothy, FA.....	Seattle
Schichinohe, Sanzo, Grad.....	Japan	Sisler, Edith, LA.....	Wenatchee
Shibata, Welly T., LA.....	Spokane	Sister Gabriel Ryan, Educ.....	Seattle
Shidler, Harold, Bus.....	Seattle	Sister Marietta, Educ.....	Seattle
Shih, Bacon, LA.....	China	Sister Mary Clementine, LA.....	Seattle
Shimomae, Yuki, LA.....	Seattle	Sister Mary Frances, FA.....	Seattle
Shinabargar, Jean Doreen, Sci.....	Seattle	Sister Mary Gabriel, LA.....	Seattle
Shinoda, Akira, Engr.....	Tacoma	Sister M Loretta G., Grad.....	Seattle
Shinbo, Hachiro, Sci.....	Seattle	Sister M Rosa de Lima, Educ.....	Everett
Shinkle, Morton Catherine, LA.....	Spokane	Sister Xavier Nibbler, Educ.....	Vancouver
Shinolt, Robert W., LA.....	Seattle	Six, Merle, Bus.....	Tacoma
Shlom, Roy Y., Engr.....	Seattle	Skagen, Cora Jean, Sci.....	Kent
Shipley, Dorothy, LA.....	Seattle	Skansie, Clementine, LA.....	Gig Harbor
Shipley, Jean, Bus.....	Seattle	Skrob, Frank, Engr.....	Okanogan
Shipton, Pauline, LA.....	Chelan	Skewis, Mary A., Grad.....	Tacoma
Shirk, Grace A., LA.....	Seattle	Skibness, Marie Bertine, Grad.....	Benson, Minn
Shockley, Ida Ellen, Grad.....	Outlook	Skinner, Kenneth G., Engr.....	Aberdeen
Shollenberger, J Wayne, Bus.....	Seattle	Skinner, Selby M., Sci.....	Seattle
Shoulderer, Marguerite D., Edu.....	Spokane	Skoog, Paul Leonard, Bus.....	Seattle
Shoret, Lamont J., FA.....	Seattle	Slagle, Calvin, Bus.....	Seattle
Shoret, Richard H., Bus.....	Seattle	Slick, Opal, Sci.....	Seattle
Shorrock, Vincent, LA.....	Seattle	Slipper, Lorna, LA.....	Hamilton
Short, Lorinda, LA.....	Ellensburg	Slipper, Marianne L., LA.....	Seattle
Short, Phillip, LA.....	Ellensburg	Sloan, Wayland C., Bus.....	Seattle
Shoudy, Helen, Edu.....	Ellensburg	Slowinske, George A., Engr.....	Seattle
Showalter, N D, Jr, Engr.....	Cheney	Slyfield, Leona, LA.....	Seattle
Showalter, Lillian, LA.....	Seattle	Smaby, Marie H., Sci.....	Ocean Falls, BC
Showalter, Virginia Belle, Edu.....	Cheney	Smaby, Sylvia H., Sci.....	Ocean Falls, BC
Showell, Gwendoline, LA.....	Bryn Mawr	Small, Ila, LA.....	Redmond
Shrader, Merwin J., Bus.....	Harrington	Smalling, Cathrine, LA.....	Donald
Shryrock, Katharine, LA.....	Seattle	Smalling, James C., LA.....	Seattle
Shucklin, Gerald, Law.....	Seattle	Smelling, Audley, Fsh.....	Granite Falls
Shull, Willis A., Engr.....	Seattle	Smetheram, F E, Bus.....	Spokane
Shulman, Leo, Bus.....	Seattle	Smiles, Kenneth G., Law.....	Pittston, Pa
Shulte, Philip R., Sci.....	Seattle	Smith, Albert S., Engr.....	Seattle
Shuman, Richard F., Sci.....	Seattle	Smith, Alverna R., FA.....	Seattle
Shusta, Paul Joseph, Bus.....	Seattle	Smith, Charlotte B., Jour.....	Wenatchee
Siebenbaum, Dorothy E., Bus.....	Port Townsend	Smith, Courtney, Sci.....	Everett
Sibley, June, Sci.....	Seattle	Smith, R Clifford, Sci.....	Sedro-Woolley
Sicade, Sarah B., FA.....	Tacoma	Smith, Dean M, Fsh.....	Seattle
Sidell, Irving T., Bus.....	Seattle	Smith, Delmar E., Engr.....	Anaconda, Mont
Siegley, David Phillips, Bus.....	Seattle	Smith, Donald, Bus.....	Yakima
Sievers, John F., LA.....	Everett	Smith, Doris L., FA.....	Vancouver, BC
Sievers, June, FA.....	Everett	Smith, Dorothy L., FA.....	Seattle
Sievers, May Juanita, FA.....	Everett	Smith, Dorothy Marie, Bus.....	Wenatchee
Sievers, Verne, Bus.....	Everett	Smith, Eileen G., Bus.....	Seattle
Sigler, Charles T., Engr.....	Seattle	Smith, Eunice W., LA.....	Seattle
Sill, Claudine, Sci.....	Coupeville	Smith, Ferguson, LA.....	Regina, Sask
Sill, Milford E., LA.....	Seattle	Smith, Ford, LA.....	Seattle
Sill, Miriam Louise, LA.....	Bothell	Smith, Frances Elaine, FA.....	Seattle
Sillman, Bessie, Sci.....	Spokane	Smith, Frances E E, Educ.....	Hamilton
Sillman, Rene M., Law.....	Boone, Iowa	Smith, F Richmond, Bus.....	Seattle
Sils, Volle M., LA.....	Seattle	Smith, Gail T., LA.....	Omak
Silver, Judith, FA.....	Seattle	Smith, Mrs Gail W., Grad.....	Seattle
Silvers, Josephine Lois, Grad.....	Mt Vernon	Smith, George B., Grad.....	Seattle
Silverstone, L E, Bus.....	Seattle	Smith, Georgina W., Grad.....	Seattle
Simatou, Amelia, LA.....	Longview	Smith, Graham, LA.....	Seattle
Simcoe, Frederick J., For.....	Bellingham	Smith, Harold B, Min.....	Seattle
Simcoe, P S, For.....	Port Townsend	Smith, Harold Benjamin, Phar.....	Wapato
Simenstad, Elizabeth Patricia, LA.....	Seattle	Smith, Harriet Graham, Grad.....	Mt Vernon
Simis, Helen, FA.....	Seattle	Smith, Harriette G., Bus.....	Arlington
Simis, Richard C., LA.....	Vancouver	Smith, Herbert H., Engr.....	Elma
Simmer, Edwin, Sci.....	Wenatchee	Smith, Helen F, Sci.....	Tacoma
Simmons, Eva, Bus.....	Ridgefield	Smith, Herbert L, Bus.....	Everett

Smith, Hjordis, FA.....	Seattle
Smith, Iloe V, FA.....	Seattle
Smith, Ina, LA.....	Monroe
Smith, Jack Orson W, LA.....	Seattle
Smith, James Gordon, LA.....	Cle Elum
Smith, Jeanne C, LA.....	Seattle
Smith, Jeannette, FA.....	Seattle
Smith, John Corson, Engr.....	Bellingham
Smith, Joyce, Sci.....	Poplar, Mont
Smith, Katherine Macrae, LA.....	Bellingham
Smith, Kathryn E, LA.....	Seattle
Smith, Lenore C, Sci.....	Seattle
Smith, Lorna, LA.....	Seattle
Smith, Magdalene, LA.....	Seattle
Smith, Margaret A, Phar.....	Pinehurst
Smith, Margaret R, LA.....	Honolulu, TH
Smith, Marian, Alice, Sci.....	Lakeview
Smith, Marjorie, LA.....	Seattle
Smith, Mary Adelaide, Grad.....	Seattle
Smith, Mildred, Bus.....	Seattle
Smith, Orville, LA.....	Naches
Smith, Otis E, Law.....	Tacoma
Smith, Paul D, Engr.....	Everett
Smith, C Preston, Bus.....	Seattle
Smith, Raymond W, LA.....	Tacoma
Smith, Richard D, LA.....	Sumner
Smith, Richard W, Engr.....	Ellisport
Smith, Ronald B, Engr.....	Seattle
Smith, Rufus, LA.....	Eumclaw
Smith, Shirley, FA.....	Seattle
Smith, T Stewart, FA.....	Courtenay, BC
Smith, Ted A, LA.....	Seattle
Smith, Theresa, FA.....	Seattle
Smith, Thomas, Jr, LA.....	Mt Vernon
Smith, Virginia M, LA.....	Seattle
Smith, Walter J, Engr.....	Spokane
Smith, A Zanonia, LA.....	Everett
Smull, Victor A, Educ.....	Pasco
Smyth, Agnes D, LA.....	Seattle
Smyth, Russell D, Law.....	Seattle
Smythe, Lucile C, LA.....	Portland, Ore
Smythe, Ralph, LA.....	Tacoma
Snead, Katherine F, Bus.....	Yakima
Snelling, Lewis B, Sci.....	South Bend
Snevely, Florence, LA.....	Seattle
Snider, Claude F, Engr.....	Pacific City
Snider, Floyd, Engr.....	Seattle
Snider, Monty E, Bus.....	Seattle
Snider, Ralph M, Bus.....	Puyallup
Snider, Ruth, LA.....	Puyallup
Snider, William J, For.....	Puyallup
Snidow, Beulah, Sci.....	Willamette, Ore
Snidow, Harriet, Grad.....	Willamette, Ore
Snodgrass, Edwin W, Bus.....	Everett
Snoke, Albert, Sci.....	Puyallup
Snyder, Carolyn, Sci.....	Seattle
Snyder, Helen V, LA.....	Seattle
Snyder, Howard B, LA.....	Everett
Snyder, James, L, Sci.....	Seattle
Snyder, Loyal T R, Law.....	Seattle
Snyder, Ralph B, LA.....	Everett
Sobey, Corynne, LA.....	Seattle
Sobey, Ruth, LA.....	Seattle
Soderberg, Miriam, LA.....	Seattle
Soderling, Harriet I, FA.....	Seattle
Soderquist, Albert A, Engr.....	Kearney, Neb
Soderstrom, John F, Engr.....	Raymond
Sogn, Harold, Sci.....	Anchorage, Alas
Sognest, Peder, Fah.....	Seattle
Sohn, Betty, LA.....	Mabton
Soll, Marguerite, FA.....	Baker, Ore
Somers, Alice, LA.....	Seattle
Somers, Eleanor, FA.....	Seattle
Sommer, Dorothy, LA.....	Seattle
Sommer, Eugenie, LA.....	Portland, Ore
Sonju, Norman, Bus.....	Poulsbo
Sonne, Julius, Engr.....	Portland, Ore
Soots, Mary Madalon, LA.....	Yakima
Soper, Paul L, LA.....	Everett
Sopwith, Edward C, Engr.....	Seattle
Sorenson, Engle, LA.....	Medina
Sorenson, Gladys, Grad.....	Bellevue
Sorenson, Mary K, Sci.....	Hazelwood
Sorenson, Oscar, Sci.....	Seattle
Soss, Freda, LA.....	Spokane
Sossaman, Aurelia, LA.....	Seattle
Soth, J Tom, LA.....	Kennewick
Soule, John B, Sci.....	Wenatchee
Soule, John Herbert, Sci.....	Anacortes
Southard, Edna Lutz, LA.....	Seattle
Southard, Lloyd C, LA.....	Seattle
Southard, Lloyd C, Educ.....	Cambridge, Kan
Southwell, Lorene, Sci.....	Tacoma
Southwick, Charles, Grad.....	Chelan
Spangenberg, Jack B, Bus.....	Seattle
Spankie, Donald F, Bus.....	Vancouver, BC
Sparkman, Donald, Sci.....	Seattle
Sparling, George W, For.....	Seattle
Spaulding, Dan W, Bus.....	Kelso
Spear, Helen, FA.....	Seattle
Spear, Marjorie, LA.....	Provo, Utah
Spence, Douglas J, Engr.....	Edmonds
Spencer, Arthur C, Jr, LA.....	Portland, Ore
Spencer, John, LA.....	Everett
Spencer, John W, For.....	Seattle
Spengler, William C, Sci.....	Seattle
Sperlin, Robert B, Engr.....	Rolling Bay
Spieth, Amelia, LA.....	Seattle
Spiller, John, LA.....	Seattle
Spillers, Curtis W, LA.....	Monroe
Spragg, Shirley, LA.....	Seattle
Sprinkle, Frances M, LA.....	Tacoma
Sproule, Dorothy, LA.....	Spokane
Spurgeon, Gwendolyn, LA.....	Seattle
Squires, Roy W, For.....	Seattle
Stacy, Marjorie B, Sci.....	Pasadena, Cal
Stadter, Edward O, Jr, Bus.....	Bend, Ore
Staffrd, Elizabeth, LA.....	Seattle
Stafford, John Bonaventure, LA.....	Seattle
Stafford, Marie, Sci.....	Seattle
Stager, Helen, Sci.....	Seattle
Stahre, Dorothy, Sci.....	Seattle
Stalberg, Vera, LA.....	Everett
Stambaugh, James T, Engr.....	Seattle
Stamm, Claus Henry, Sci.....	Seattle
Standard, Gertrude, LA.....	Seattle
Stangeland, Helen, LA.....	Sacramento, Cal
Stanley, E E, LA.....	Seattle
Stanley, Emery R, For.....	Seattle
Stanley, Evelyn M, LA.....	Seattle
Stanley, Frank C, FA.....	Los Angeles, Calif
Stanley, Isaac N, Grad.....	Seattle
Stansbery, Norman C, Sci.....	Seattle
Starin, Cecelia, LA.....	Seattle
Stark, Melvin H, Bus.....	Seattle
Stark, Jeannette, LA.....	Seattle
Stark, Russell F, Law.....	Seattle
Starkey, Helen, LA.....	Seattle
Starr, Mary Elizabeth, Sci.....	Seattle
Starrett, Ethel M, Sci.....	Seattle
Staser, Votaw, LA.....	Ritzville
Stauter, Justin, Sci.....	Bellevue
St. Clair, Elizabeth, LA.....	Seattle
St. Clair, Laura, Grad.....	Seattle
St. Clair, Virginia, LA.....	Seattle
St. Denis, Marguerite, FA.....	Valler, Mont
St John, Charles H, Bus.....	Chehalis
Stedman, F Paul, FA.....	Seattle
Stedman, Vera, Grad.....	Seattle
Steele, Helen M, Sci.....	Tacoma
Steele, Lloyd E, Engr.....	Everett
Steele, Zoe, FA.....	Seattle
Steen, Elizabeth, LA.....	Seattle
Steen, Herbert, Engr.....	Concrete
Steeves, Blanchard F, Grad.....	Seattle
Stedman, Marcus, LA.....	Palo Alto, Calif
Steiger, Pearl, Bus.....	Seattle
Steiner, Dorothy, LA.....	Tacoma
Steiner, Griffith D, LA.....	Okanogan
Steinhart, Arden C, Bus.....	Seattle
Stensland, Esther, LA.....	Redmond
Stensland, Theodore, LA.....	Redmond

Stephens, C E, FA.....	San Bernardino, Cal
Stephens, L Dow, Sci.....	Seattle
Stephens, Elinor, FA.....	Seattle
Stephens, Irene, Sci.....	Seattle
Stephens, John L, Sci.....	Everett
Stephenson, Dorothy, LA.....	Seattle
Stern, Carolyn, Grad.....	Seattle
Sterne, Lowell, LA.....	Indianapolis, Ind
Stetson, John B, Jr, Sci.....	Seattle
Stevens, Catherine Bicknell, LA.....	Seattle
Stevens, Edward Francis, Engr.....	Wenatchee
Stevens, F E, Jr, LA.....	Pasadena, Cal
Stevens, George, Engr.....	Everett
Stevens, Henrietta, LA.....	Seattle
Stevens, James W, Jour.....	Caldwell, Ida
Stevens, Lorraine H, FA.....	Wenatchee
Stevens, Pauline, Sci.....	Seattle
Stevens, Robert R, Bus.....	Seattle
Stevenson, Harold, LA.....	Seattle
Stevenson, Margaret L, LA.....	Seattle
Stewart, Donald, LA.....	Seattle
Stewart, Dorothy, Sci.....	Centralia
Stewart, Elizabeth Baker, LA.....	Boise, Ida
Stewart, Emma Jo, Grad.....	Seattle
Stewart, Florence B, LA.....	Seattle
Stewart, Gordon, LA.....	Seattle
Stewart, Jean Douglas, FA.....	Mercer Island
Stewart, Phil H, Engr.....	Seattle
Stewart, Robert L, Jr, LA.....	San Diego, Cal
Stewart, Ruth, LA.....	Seattle
Stewart, Una Andrew, LA.....	Burton
Stickels, Carrie Elaine, Sci.....	Seattle
Stickney, Monro B, Engr.....	Seattle
Stidd, Ruth M, LA.....	Ellensburg
Stier, Calvert, Bus.....	Seattle
Stilwell, Eugene B, LA.....	Seattle
Stimpson, Mabel, Sci.....	Bellingham
Stinson, Frank W, Bus.....	Seattle
Stinson, Howard, Bus.....	Seattle
Stinson, Verna, LA.....	Seattle
Stith, Richard L, Sci.....	Seattle
Stitt, Margaret, LA.....	Seattle
Stixrud, Chester R, Fsh.....	Seattle
Stocker, Hollis O, Sci.....	Seattle
Stockwell, Richard, Bus.....	Aberdeen
Stoddard, E, Grad.....	Beaver Dam, Wis
Stoddard, Wayne, Bus.....	Everett
Stokes, Margaret Ruth, LA.....	Seattle
Stokes, Thomas H, Bus.....	Seattle
Stombaugh, John, For.....	Vancouver
Stone, Catherine, FA.....	Glendale, Cal
Stone, Conley A, Bus.....	Cosmopolis
Sone, Gladys L, LA.....	Kelso
Stone, Harold R, LA.....	Seattle
Stone, Helen B, Grad.....	Cosmopolis
Stone, Hortense, LA.....	Spokane
Stone, Ida, LA.....	Seattle
Stone, Leslie A, Bus.....	Bellingham
Stone, Loren B, LA.....	Seattle
Stone, Rose, LA.....	Seattle
Stoneman, Argus V, LA.....	Seattle
Stoner, Helene M, LA.....	Spokane
Storey, Eunice, Grad.....	Seattle
Storey, Oran A, Bus.....	Seattle
Storey, Roy J, Jr, Engr.....	Seattle
Stose, Wm J, Engr.....	Seattle
Stotler, Kenneth, Bus.....	Seattle
Stout, Maxine, Educ.....	Vancouver
Stout, Walter, LA.....	Aberdeen
Stout, Wesley E, Bus.....	Billings, Mont
Stout, Wilfred L, Sci.....	Seattle
Stover, Lois C, LA.....	Seattle
Stowell, Ernest P, Educ.....	Seattle
Stowell, Ralph J, Bus.....	Seattle
Stoy, Nell, LA.....	Seattle
Strachan, Gertrude, Grad.....	Seattle
Strachila, Joseph, Engr.....	Clippers
Stradley, Muriel, LA.....	Seattle
Strahl, Merton P, Sci.....	Brooklyn, NY
Strain, Kenneth, Bus.....	Seattle
Strain, Robert J H, Bus.....	Seattle
Strand, Elizabeth, Grad.....	Vancouver
Strand, Raymond J, LA.....	Seattle
Stranz, Martin F, For.....	Aberdeen
Stratton, Doris, LA.....	Seattle
Stratton, Felice A, LA.....	Seattle
Stratton, Irving R, Law.....	Seattle
Strauss, Herman A, Sci.....	Colfax
Stray, Herbert A, FA.....	Seattle
Stray, Myrtle A, LA.....	Seattle
Strblch, John, Bus.....	Tacoma
Strecker, Burr W, LA.....	Seattle
Strickler, Wayne, LA.....	Seattle
Sriker, Kenneth, FA.....	Seattle
Stringer, Harold, Sci.....	Benton City
Stritch, Irene, LA.....	Reed Point, Mont
Strizek, Paul J, Sci.....	Seattle
Strobel, Keene S, Bus.....	Tacoma
Stroble, Ray, Phar.....	Seattle
Strohl, Wellington M, Engr.....	Seattle
Strom, C Walter, Bus.....	Prosser
Strong, James, Engr.....	Seattle
Strong, Richard S, Law.....	Seattle
Strong, F W, LA.....	New Haven, Conn
Strother, Charles R, LA.....	Seattle
Strouse, Margaret, FA.....	Seattle
Strout, W Clyde, LA.....	Seattle
Stryker, Hazel M, Bus.....	Seattle
Stub, Sylvia A, LA.....	Seattle
Stubblefield, Blaine, Grad.....	Spokane
Stucky, Philip P, LA.....	Monroe
Stuerner, Ernest, Engr.....	Harrington
Stuffel, Lettie E, LA.....	Belt, Mont
Stuntz, Alice, FA.....	Seattle
Stuntz, George R, Law.....	Seattle
Sturges, Beatrice E, LA.....	Seattle
Sturgis, Henrietta, LA.....	Sturgis, Mich
Sturgis, Isabel, Sci.....	Seattle
Stwalley, Ruth, LA.....	Tacoma
Stybor, Winifred, LA.....	Seattle
Suffel, Ewart G, LA.....	Seattle
Sugimachi, Yaemitsu, LA.....	Japan
Sulit, Silvestre, Engr.....	Philippines
Sullivan, James H, Engr.....	Bremerton
Sullivan, Mark S, LA.....	Seattle
Sulzer, William H, Bus.....	Seattle
Summers, Wayne M, LA.....	Seattle
Sun, Howard F S, Grad.....	China
Suomela, George E, Educ.....	Iiwaco
Suomela, Walfred T, FA.....	Iiwaco
Supple, Virginia, LA.....	Seattle
Sutherland, Blache, LA.....	Seattle
Sutherland, Ethel E, Educ.....	Lynden
Sutherland, Helen, FA.....	Seattle
Sutherland, Paul G, Bus.....	Seattle
Sutherland, William J, LA.....	Tacoma
Sutherland, Anette, Sci.....	Seattle
Sutor, J Allen, LA.....	Waterville
Sutton, Margaret, LA.....	Seattle
Suzuki, Eitaro, Bus.....	Renton
Suzuki, Kee K, Engr.....	Japan
Suzuki, Sakae, Sci.....	Seattle
Svensen, Harold A, For.....	Seattle
Swain, Olive, Grad.....	Tacoma
Swan, Helen, LA.....	Spokane
Swanberg, Anita, Bus.....	Seattle
Swanberg, Arnold, Engr.....	Redmond
Swanberg, Ruth, Bus.....	Seattle
Swank, Roy, LA.....	Camas
Swann, Perry W, LA.....	Seattle
Swanson, Carl Martin, LA.....	Everett
Swanson, Chester H, Bus.....	Everett
Swanson, Claude N, LA.....	Everett
Swanson, Dorothy M, Educ.....	Seattle
Swanson, Malcolm J, Engr.....	Seattle
Swanson, Melvin T, Bus.....	Tacoma
Swanson, Thorild, LA.....	Seattle
Swanson, Walter T, Phar.....	Everett
Swanson, Walter V, Jr, Law.....	Seattle
Swart, Gilbert H, Engr.....	Seattle
Swartz, Fanny W, Sci.....	Seattle
Swartz, Joseph G, Jr, LA.....	Seattle

Swearingen, Francis, Bus.....	Seattle	Tennant, Raymond E, Sci.Snoqualmie Falls	
Swedin, Elmer, LA.....	Port Blakely	Tenoso, Andres, Engr.....	Philippines
Sween, Theodora, LA.....	Redmond	Terhune, Virgil Willis, LA.....	Bryn Mawr
Sweet, William, Bus.....	Seattle	Terry, D Leama, Sci.....	Seattle
Sweet, William H, Sci.....	Centralia	Tershin, John Alfred, Engr.....	Seattle
Swenson, Carl R, Engr.....	Seattle	Terwilliger, Beulah, FA.....	Seattle
Swenson, Vesta, FA.....	Seattle	Terzieff, Otille, Grad.....	Seattle
Swenson, Karl H P, Engr.....	Seattle	Tesack, Kathryn, FA.....	Seattle
Swift, E A, Jr, Law.....	Seattle	Tesreau, Louis, Bus.....	Chehalis
Swift, Elene C, FA.....	Seattle	Tessman, Edna, Bus.....	Seattle
Swift, Paul, LA.....	Seattle	Test, Francesmae, Sci.....	Seattle
Swingle, Ruth, Grad.....	Seattle	Teubner, Florence M, LA.....	Opportunity
Swizer, F Whitmore, LA.....	Pasadena, Cal	Thaanum, James, Fsh.....	Sultan
Sylvester, John N, LA.....	Seattle	Thayer, J Durward, Fsh.....	Seattle
Sym, Eather L, LA.....	Napa, Cal	Thayer, Walter W, Bus.....	Seattle
Symons, Arthur, FA.....	Shanghai, China	Tblele, Margarethe C, Bus.....	Seattle
		Thiry, Paul, FA.....	Seattle
		Thode, Helen, LA.....	Boise, Ida
Taake, Yeteve E, Educ.....	Seattle	Thole, Marjorie F, LA.....	Seattle
Tachibana, Katsutoshi, FA.....	Japan	Tholo, Stanley, Fsh.....	Seattle
Tadlock, Ruth, LA.....	Olympia	Thom, F Evelyn, Sci.....	Seattle
Taft, Claire, LA.....	Seattle	Thomas, Alvin, LA.....	Seattle
Taft, Herbert F, Fsh.....	Seattle	Thomas, August R, FA.....	Seattle
Taggart, Bety, FA.....	Aberdeen	Thomas, B D, Sci.....	Renton
Taggart, Elizabeth, FA.....	Seattle	Thomas, Chester R, LA.....	Ellensburg
Tai, James B P, Engr.....	Fukien, China	Thomas, Edward H, Engr.....	Seattle
Takahashi, Yoshiomi, LA.....	Japan	Thomas, Ferne, LA.....	Le Sueur, Minn
Takai, Shige, FA.....	Auburn	Thomas, George Wm, FA.....	Seattle
Takai, Sumiko, FA.....	Auburn	Thomas, J, Engr.....	Seattle
Talbott, Jane, FA.....	Seattle	Thomas, Jack R, Bus.....	Sumas
Talbot, E Reeve, LA.....	Seattle	Thomas, Marie Lucille, LA.....	Seattle
Talbott, Mary, Sci.....	Seattle	Thomas, Naomi, Sci.....	Bellingham
Tamesa, Minola, Engr.....	Seattle	Thompson, J Arthur, LA.....	Tacoma
Tanaka, William, FA.....	Seattle	Thompson, Burson A, Bus.....	Seattle
Tanberg, Barbara, FA.....	Seattle	Thompson, Charles I, Bus.....	Seattle
Tang, Wu, LA.....	Hankow, China	Thompson, Chloe S, Grad.....	Portland, Ore
Tangney, Clarence W, Bus.....	Seattle	Thompson, Dorothy C, LA.....	Seattle
Tangney, Emmet L, Engr.....	Seattle	Thompson, Elmore A, LA.....	San Francisco
Tanigawa, James T, Bus.....	Honolulu, TH	Thompson, Gladine, LA.....	Pullman
Tanner, Jesse A, Grad.....	Spokane	Thompson, Glen W, Phar.....	Burnett
Tanner, Margit A, LA.....	Seattle	Thompson, Henry N, Bus.....	Seattle
Tarbet, Roy, Engr.....	Seattle	Thompson, Helen P, LA.....	Seattle
Tarleton, Julia, LA.....	Winlock	Thompson, Irma, LA.....	Seattle
Tarr, Ray, Jr, LA.....	Tacoma	Thompson, Katherine, Sci.....	Seattle
Tate, W Paul, Bus.....	Seattle	Thompson, Marc W, FA.....	Colfax
Tatsumi, Henry S, LA.....	Seattle	Thompson, Margaret, LA.....	Seattle
Tatsuuma, Ryo, Bus.....	Japan	Thompson, Mary Eleanor, LA.....	Colfax
Tatsuuma, Tatsuo, Bus.....	Japan	Thompson, Page, LA.....	Seattle
Tauguer, Conrad, Sci.....	Seattle	Thompson, Randall Leslie, Sci.....	Seattle
Taxt, Alexander, Engr.....	Bremerton	Thompson, Robert K, Bus.....	Seattle
Taylor, R Arthur, Phar.....	Seattle	Thompson, Seton H, Fsh.....	Seattle
Taylor, Bessie, Sci.....	Vancouver	Thompson, Vernon, Bus.....	Seattle
Taylor, Charles, LA.....	Ft Stellacoom	Thompson, Wilbur B, Bus.....	Seattle
Taylor, Chester A, Grad.....	Seattle	Thomsen, Clara Marie, Sci.....	Oregon
Taylor, Dean, LA.....	Sumner	Thomson, Harry S, LA.....	Seattle
Taylor, Dorman D, Sci.....	Seattle	Thomson, Henry E, LA.....	Seattle
Taylor, Dwight D, LA.....	Sumner	Thomson, Howard M, Engr.....	Seattle
Taylor, Elizabeth S, LA.....	Seattle	Thomson, Stuart W, LA.....	Seattle
Taylor, S Fisher, LA.....	Seattle	Thomson, Walter G, For.....	Seattle
Taylor, Fred W, Bus.....	Tacoma	Thor, Eran H, Bus.....	Tacoma
Taylor, Frederick, Bus.....	Colville	Thorgrimson, Richard O, LA.....	Seattle
Taylor, Helen, LA.....	Falls City	Thorn, Alfred A, LA.....	Seattle
Taylor, Henry Joe, LA.....	Seattle	Thornberry, Howard E, Engr.....	Everett
Taylor, Jean, Sci.....	Walla Walla	Thorne, Thelma May, Sci.....	Renton
Taylor, Jess N, Bus.....	Sequim	Thornton, Ida M, LA.....	Tacoma
Taylor, John W, Engr.....	Seattle	Thornton, Marion, LA.....	Seattle
Taylor, Kathryn, LA.....	Enumclaw	Thornton, Thurlie, Bus.....	Seattle
Taylor, Kyle, FA.....	Seattle	Thorpe, Lloyd E, LA.....	Seattle
Taylor, Lucille, Libr.....	Seattle	Thorstenson, Skuld, LA.....	Seattle
Taylor, Marion, Bus.....	Long Beach	Thrallkill, William L, Engr.....	Seattle
Taylor, Robert Martin, LA.....	Everett	Thrasher, Clarke E, Bus.....	Seattle
Taylor, Ward, Bus.....	Bellingham	Throssell, Wilbur, LA.....	Yakima
Taylor, William D, Jr, Edu.....	Spokane	Thueson, Dorothy G, LA.....	Seattle
Tebb, Neal Anderson, Bus.....	Aberdeen	Thurstin, Wilson P, Bus.....	La Grande, Ore
Teigmeier, Helen Louise, Sci.....	Seattle	Tichenor, Roy, Fsh.....	Seattle
Ted, Ralph, Bus.....	Seattle	Tiedman, Eleanor, LA.....	Seattle
Teitgen, L Estelle, FA.....	Seattle	Tiffany, Kathrine B, Grad.....	Seattle
Templeman, Perc L, FA.....	Seattle	Tilford, Vera, LA.....	Seattle
Templeton, David D, Bus.Great Falls Mont		Tilley, J Norman, Sci.....	Everett
Templeton, F E, Sci.....	Seattle	Tilton, Alice, Bus.....	Spanaway
Templeton, William R, Bus.....	Seattle	Timbers, Howard Emerson, Grad.....	Seattle



Timm, Henry T, Sci.....	Harrington	Trullinger, John, LA.....	Seattle
Tinkcom, Dolores, FA.....	Seattle	Trumbo, Virginia, LA.....	Seattle
Tinkel, Gretchen, FA.....	Spokane	Trumbull, Barbara, LA.....	Seattle
Tinker, Dorothy, Sci.....	Seattle	Trumbull, Jeanne, LA.....	Seattle
Tinker, Spencer, LA.....	Seattle	Truscott, Lois C, LA.....	Seattle
Tinstman, H O, Bus.....	Seattle	Tryggvi, Carl, Sci.....	Bellingham
Tippett, Wilma, FA.....	Seattle	Tsang, Yale Yih, Grad.....	China
Tipton, George A, Sci.....	Seattle	Tsao, Shou-Chang, LA.....	Shantung, China
Titus, Marion, LA.....	Seattle	Tsukumo, Tomi, Bus.....	Seattle
Tjossem, V S, LA.....	Boise, Ida	Tsurutani, Daniel, LA.....	Honolulu, TH
Tobey, Clarence, Bus.....	Snohomish	Tuck, Lamoine U, Sci.....	Kent
Tobey, Lono W, Phar.....	Elma	Tucker, Helen F, LA.....	Seattle
Tobin, Marjorie, Bus.....	Seattle	Tucker, Lena L, Grad.....	Seattle
Todd, Erma Arline, Grad.....	Los Molinos, Cal	Tucker, Margaret, LA.....	Yakima
Todd, O V, Phar.....	Port Allegany, Pa	Tucker, Roy F, Educ.....	Seattle
Todd, Sarah, LA.....	Seattle	Tucker, Walter D, Sci.....	Seattle
Todd, Seldon Page, Engr.....	Seattle	Tucker, William F, LA.....	Seattle
Togo, Yone, Engr.....	Seattle	Tuell, David R, LA.....	Tacoma
Tokarev, N J, Engr.....	Russia	Tuell, J Irving, Sci.....	Tacoma
Tolch, Kathleen, Sci.....	Bellingham	Tulloch, James F, Bus.....	Friday Harbor
Toledo, Melecio, LA.....	Philippines	Tulloch, Louise, LA.....	Friday Harbor
Tolentino, Juan, LA.....	Philippines	Tullus, Lewis W, LA.....	Tacoma
Tollefson, Rudolph, Bus.....	Tacoma	Tunelish, Nellie, LA.....	Seattle
Tollefson, Thorwald, LA.....	Tacoma	Tunncliffe, Harriet, LA.....	Galesburg, Ill
Tolonen, Kate, LA.....	Astoria, Ore	Turley, Bernice, FA.....	Toppenish
Tolstrup, Katherine, FA.....	Lakota	Turley, Edith F, Grad.....	Tacoma
Tomlinson, Iris P, LA.....	Seattle	Turnaciff, Dudley W, Fsh.....	Seattle
Toner, John B, Bus.....	Seattle	Turnaciff, J Lloyd, Bus.....	Seattle
Toner, Martin, LA.....	Lacey	Turnaciff, Lucille M, Grad.....	Seattle
Tonning, Kenneth, For.....	Tacoma	Turner, Charles P, For.....	Everett
Toole, Margaret, FA.....	Seattle	Turner, Charlotte, FA.....	Seattle
Topping, Norman, Sci.....	Tacoma	Turner, Clara May, Sci.....	Seattle
Torbitt, Harry B, LA.....	Longview	Turner, J Clark, LA.....	Seattle
Torney, Jack, LA.....	Seattle	Turner, Edwin T, FA.....	Seattle
Torrence, O E, LA.....	Seattle	Turner, H Elizabeth, LA.....	Seattle
Torrey, Mary, FA.....	Everett	Turner, Elsie S, LA.....	Seattle
Tourtellotte, Janet Powell, Grad.....	Seattle	Turner, Homer E, LA.....	Seattle
Tower, J Allen, LA.....	Warren, Pa	Turner, Hope, FA.....	Seattle
Towne, Albert B, Jr, Bus.....	Seattle	Turner, Jane, Bus.....	East Sound
Townsend, Florence E, Edu.....	Olympia	Turner, John, Bus.....	Seattle
Townsend, James Kelly, Fsh.....	Victoria, BC	Turner, Leon F, LA.....	Seattle
Townsend, Lorita M, LA.....	Seattle	Turner, Naomi, Sci.....	Olympia
Townsend, Paul, LA.....	Seattle	Turtle, Beatrice G, Sci.....	Vancouver, BC
Toyota, Norio, LA.....	Seattle	Tuttle, Marian E, Grad.....	Seattle
Tozler, Payson V, Engr.....	Seattle	Tuttle, Mavis J, LA.....	Seattle
Tracy, Jack H, Bus.....	Seattle	Tuttle, Valgene, LA.....	Aberdeen
Tracy, Jim D, For.....	Seattle	Twelves, Charles M, Jr, Engr.....	Everett
Trafton, Ted, Bus.....	Seattle	Twilley, Einar, Bus.....	Glendive, Mont
Trapp, Lowell R, Engr.....	Orondo	Twohey, Claire M, LA.....	Wh Sul Spgs, Mont
Tratnick, Adolph, Sci.....	Black Diamond	Twombly, Ardis J, Bus.....	Everett
Travis, Ira M, Sci.....	Seattle	Tyler, Wilson, Law.....	Olympia
Travis, Virginia, LA.....	Seattle		
Treadwell, Mildred, FA.....	Seattle		
Treby, Helen V, LA.....	Seattle	Ucovich, Pete C, Engr.....	Buckley
Treffry, Ralph, Edu.....	Spokane	Ude, William W, LA.....	Spokane
Trelstad, Inez B, Sci.....	Seattle	Udine, Clara V, FA.....	Great Falls, Mont
Trenner, Archie D, LA.....	Washougal	Ulbrickson, A M, Bus.....	Seattle
Treuer, Robert F, LA.....	Seattle	Ulman, Fred A, Bus.....	Enumclaw
Treutle, Fred G, Bus.....	Gig Harbor	Ulrich, Robert, Bus.....	Index
Treizse, Gordon T, Bus.....	Carnation	Ulsaker, Ida M, LA.....	Kindred, ND
Treizse, Norman, LA.....	Tolt	Ulsch, Charles A, Engr.....	Seattle
Trick, Berton George, Bus.....	Seattle	Ulsch, Harry E, LA.....	Seattle
Trick, Doris, FA.....	Seattle	Ulsch, Helen, FA.....	Seattle
Trimble, E Stewart, Sci.....	Seattle	Ulvestad, Lars A, Bus.....	Seattle
Trimlett, Wm Bryan, Bus.....	Seattle	Umlno, Terugi, Engr.....	Seattle
Tripp, Audrey Cora, LA.....	Victoria, BC	Underwood, Floyd, LA.....	Sprague
Tripp, Etta Gilbert, Edu.....	Seattle	Underwood, Irma, LA.....	Portland, Ore
Troberg, George S, Engr.....	Seattle	Underwood, Malcolm C, Engr.....	Portland, Ore
Troitzky, Semeon P, Engr.....	Seattle	Ungar, Sidney D, LA.....	Seattle
Troja, John B, Engr.....	Oroya, Peru	Unrich, Muriel, FA.....	White Salmon
Tronstad, Minford, Engr.....	Seattle	Upcraft, W S, Grad.....	Seattle
Trotter, Marian E, LA.....	Honolulu, TH	Upton, Rolf W, LA.....	Seattle
Trow, Florence, Bus.....	Seattle	U'Ran, C Gordon, LA.....	Snohomish
Trowbridge, K S, For.....	Augusta, Ga	U'Renn, Dorothy, LA.....	Seattle
Troxel, Lois L, FA.....	Longview	Urquhart, Irene, LA.....	Seattle
Troxell, Beryl, Sci.....	Bellingham	Usher, Harlan K, Sci.....	Wenatchee
Troy, Smith, LA.....	Olympia	Ustiantseff, Peter K, Engr.....	Seattle
Troy, Thomas B, Law.....	Havre, Mont		
Truesdell, Herbert M, LA.....	Seattle		
Truesdell, James, Sci.....	Yakima		
Truher, Louis, Bus.....	Seattle		
		Vaa, Lawrence, Engr.....	Poulsbo
		Vail, Agnes B, FA.....	Seattle

Valentine, Gordon B. Bus.....	Seattle	Wade, William B. FA.....	Pasadena, Calif
Valentine, Lella, Sci.....	Seattle	Waegeler, Karl L. Engr.....	Hollywood, Cal
Valentine, John J. LA.....	Seattle	Wagenknecht, Edward, Grad.....	Seattle
Valentine, Stanley M. LA.....	Seattle	Wager, Florence, LA.....	Vancouver
Van, Warren, Bus.....	Seattle	Wagener, Harold L. LA.....	Seattle
Van Amerongen, Gerard, LA.....	Deland, Fla	Wagner, Edward K. LA.....	Bremerton
Van Amerongen, Wm J. Law.....	Deland, Fla	Wagner, Robert H. Engr.....	Seattle
VanAntwerp, Maurice A. LA.....	Seattle	Wagner, William, Bus.....	Seattle
VanArsdale, Louis C. LA.....	Tacoma	Wahl, Sydney, Phar.....	Everett
Van Buskirk, Adelbert C. Sci.....	Edmonds	Wahlgren, Nelson, Engr.....	Sedro-Woolley
Vance, Lloyd J. Bus.....	Seattle	Wahlstrom, Phil, Bus.....	Seattle
Vance, Sara S. Grad.....	Corvallis, Ore	Wall, Mohammad, Law.....	India
Vandercook, Esther, LA.....	Longview	Walker, Elsie M. FA.....	Seattle
Vanderkleed, Edwin E. Engr.....	Seattle	Wall, Kathlene, LA.....	Seattle
Vanderspeck, Geraldine, Sci.....	Seattle	Wallace, John H. Sci.....	Seattle
Van der Werker, Edith, Sci.....	Everett	Wallace, F Markham, Fsh.....	Seattle
Van Deusen, Ben, Bus.....	Seattle	Wallis, Ronald D. Engr.....	Eaton, Colo
Van Diest, Elery, LA.....	Yakima	Wallingform, Edna M. FA.....	Seattle
Van de Walker, Dale, Bus.....	Seattle	Wallitner, Ivan, Engr.....	Seattle
Vandivort, Mary Harriett, Edu.....	Seattle	Waln, Cecil, Bus.....	Cordova, Alaska
Van Frank, Esther N. Sci.....	Seattle	Walsh, Alice B. Grad.....	Seattle
Van Gilder, Helen Louise, Sci.....	Seattle	Wait, W T. Grad.....	Seattle
Van Horn, Amy, Libr.....	Tacoma	Wakeman, Willard, LA.....	Seattle
Van Horn, Margaret, LA.....	Tacoma	Walberg, Hjalmer, Engr.....	Sedro-Woolley
Van Iderstine, Dorothy, LA.....	Twin Falls, Ida	Walck, Ida, LA.....	Tacoma
Van Kirk, Asher, Sci.....	Seattle	Waldegrave, W K. Bus.....	Palo Alto, Cal
Van Leuven, Kenneth, LA.....	Wenatchee	Waldorf, Lansing, Engr.....	Seattle
Van Liew, Frances Humphries, LA.....	Seattle	Walen, Harold, Phar.....	Silvana
Vann, Kling, Bus.....	Richmond Beach	Wallin, Kenneth W. Engr.....	Puyallup
Van Patten, Theron, Engr.....	Seattle	Walker, Alfred F. Bus.....	Spokane
Van Ruff, Kenneth William, LA.....	Olympia	Walker, Arthur R. LA.....	Tacoma
Van Schuyver, Catherine, LA.....	Portland, Ore	Walker, E Bruce, LA.....	Seattle
Van Stralen, Francis J. Bus.....	Manette	Walker, Cedric W. For.....	Victoria, BC
Van Tilborg, Elizabeth, Sci.....	Seattle	Walker, David J. LA.....	Seattle
Van Tilborg, L D. Sci.....	Seattle	Walker, Edward S. Bus.....	Tacoma
Van Vallin, C Frederick, Fsh.....	Lincoln, Neb	Walker, Fred, LA.....	Seattle
Van Voorhis, Ford E. Engr.....	Seattle	Walker, Hal J. Engr.....	Seattle
Van Voorhis, G LeRoy, Bus.....	Seattle	Walker, James A. Jr. LA.....	Seattle
Van Woert, Minervan J. Engr.....	Seattle	Walker, Josephine, FA.....	Seattle
Van Winkle, Donald B. LA.....	Everett	Walker, Margery, LA.....	Shelton
Van Wert, Ross Leighton, LA.....	Puyallup	Walker, Milton E. LA.....	Everett
Van Zante, Jean, Educ.....	Portland	Walker, Norman E. Sci.....	Seattle
Vaughan, Frances Clare, FA.....	Bellevue	Walker, Omar A. Bus.....	Spokane
Vaughan, Jack E. Bus.....	Downers Grove, Ill	Walker, Phyllis, LA.....	Cincinnati, Ohio
Vaughan, Robert W. Engr.....	Seattle	Walker, Phyllis Heath, Grad.....	Seattle
Vea, Vicente E. Engr.....	Philippines	Walker, Ward J. Bus.....	Selah
Veale, Thomas, Engr.....	Enumclaw	Wall, Harold, Sci.....	Seattle
Vellikanje, Stanley P. LA.....	Yakima	Wallace, Frank Markham, Fsh.....	Seattle
Vera Cruz, Marcos, Sci.....	Philippines	Wallace, Helen, LA.....	Seattle
Verd, Fred R. Engr.....	Arlington	Wallace, James W. Jr. Engr.....	Burlington
Verd, Paul H. Engr.....	Arlington	Wallace, Jean M. Sci.....	Seattle
Verhamme, Evelyn, Grad.....	Seattle	Wallace, Lenore, LA.....	Bellevue
Vesofa, Arnie, LA.....	Douglas, Alaska	Wallace, Marjorie, LA.....	Tacoma
Victor, Donald, Bus.....	Seattle	Wallace, Wm D. Bus.....	Tacoma
Victoriano, P. LA.....	Seattle	Weller, Myrna Marie, Edu.....	Seattle
Victory, R M. LA.....	Seattle	Wallin, Helen D. LA.....	Great Falls, Mont
Viereck, Gilton R. Bus.....	Bremerton	Walsh, Bernice, FA.....	Everett
Villa, Lillian V. LA.....	Seattle	Walsh, Frank K. Jr. Bus.....	Hoquiam
Villesvik, John, FA.....	Tacoma	Walsh, Inez Josephine, Sci.....	Spokane
Vincent, John C. LA.....	Puyallup	Walsh, James P. FA.....	Braddock, ND
Vincent, J Eugene, Sci.....	Seattle	Walter, Fern, Bus.....	Seattle
Vincent, Russell, Sci.....	Seattle	Walter, Gertrude, Sci.....	Seattle
Vincent, Will P. Min.....	Puyallup	Walter, Ralph, Engr.....	Seattle
Vining, M N. Bus.....	Seattle	Walters, Helen, LA.....	Seattle
Visser, William R. Grad.....	Seattle	Walters, Margaret C. Grad.....	Seattle
Vistrand, Paul, Engr.....	Seattle	Waltersdorph, Aileen, FA.....	Seattle
Vlaschik, John Tony, Bus.....	Seattle	Waltersdorph, Henning C. Bus.....	Seattle
Voegtlin, Walter T. Sci.....	Seattle	Walther, Robert S. LA.....	Seattle
Vogel, Leo Ferdinand, LA.....	Attalia	Walshall, Frank, Min.....	Porterville, Cal
Voell, Leona T. LA.....	Seattle	Walton, Adele C. LA.....	Seattle
Vogler, Sybil, Bus.....	Seattle	Walton, Florence, FA.....	Everett
Vogler, Theodore K. Grad.....	Seattle	Walton, Helen, Sci.....	Seattle
Volkman, Paul, Engr.....	Vapato	Walton, L W. For.....	Everett
Von Hellens, Glory, LA.....	Seattle	Walton, Peter T. For.....	Everett
Von Kleist, Paul, For.....	Seattle	Waltz, Harold Darnell, Sci.....	Seattle
Voorhees, F E. Engr.....	Seattle	Waltz, Margaret E. FA.....	Seattle
Vradenburgh, Neal, Sci.....	Puyallup	Wamba, Edward, LA.....	Seattle
		Wang, Laura, LA.....	Seattle
		Waples, Horace M. Bus.....	Downers Grove, Ill
Waddell, Howard, Edu.....	Tacoma	Ward, Austin L. Sci.....	Onalaska
Wade, Ernest B. Engr.....	Seattle	Ward, Clarke, LA.....	Seattle

Ward, Dorothy Lee, LA.....	Lewiston, Ida
Ward, Elizabeth, Sci.....	Cashmere
Ward, Frederic, Bus.....	Seattle
Ward, Hurland L, LA.....	Hoquiam
Ward, Marguerite, LA.....	Seattle
Ward, Ray, Edu.....	Republic
Ward, W E, Sci.....	Seattle
Ward, Wm W, LA.....	Seattle
Wardall, Cedric M, Bus.....	Seattle
Warde, Gertrude, LA.....	Seattle
Ware, A Barrington, Bus.....	Seattle
Ware, Elra, LA.....	Seattle
Ware, Jeannette H, Sci.....	Seattle
Ware, Mary M, LA.....	Coeur d'Alene, Ida
Warford, Keith, Bus.....	Hoquiam
Warner, Alice A, Bus.....	Seattle
Warner, Clinton P, Min.....	Renton
Warner, Grace, LA.....	Seattle
Warner, Kenneth, LA.....	Tacoma
Warner, Mary, LA.....	Portland, Ore
Warner, Wilma, Sci.....	Medical Lake
Warnick, Jack, Bus.....	Tacoma
Warnick, Robert, FA.....	Tacoma
Warren, Clair C, Bus.....	Wenatchee
Warren, Marajane, FA.....	Seattle
Warwick, W James, LA.....	Havre, Mont
Washington, Lillian, FA.....	Seattle
Waskey, Robert, Sci.....	Seattle
Wasner, Marion C, Bus.....	Seattle
Wasson, Harold K, Bus.....	Seattle
Wasson, James G, For.....	Seattle
Watanabe, I Wallace, Sci.....	Seattle
Watanabe, Kabel, Law.....	Seattle
Waters, Aaron, Grad.....	Sultan
Waters, Ellen H, Sci.....	Seattle
Waterworth, Jack, Phar.....	Yakima
Watkins, Clayton K, Bus.....	Seattle
Watkins, Mary, LA.....	Hoquiam
Watson, Richard B, LA.....	Seattle
Watson, Wilbur E, Sci.....	Montesano
Watson, Willma, LA.....	Redding, Calif
Watt, Phoebe, LA.....	Seattle
Watt, Vernon S, Engr.....	Seattle
Watts, Catharine C, LA.....	Bellingham
Watts, Isabel, LA.....	Seattle
Watts, Mary Louise, LA.....	Seattle
Waugh, Esther, FA.....	Manette
Waugh, Robert, Bus.....	Seattle
Wayland, Elizabeth, FA.....	Seattle
Wayland, Ruth, LA.....	Seattle
Wayland, Varrell, FA.....	Seattle
Weatherwax, Eleanor, LA.....	Seattle
Weaver, Frank P, Law.....	Spokane
Weaver, Gussie S, FA.....	Seattle
Weaver, Myron, Sci.....	Spokane
Weaver, Osa B, FA.....	Seattle
Weaver, W H, Jr, Sci.....	Seattle
Webb, Norman R, FA.....	Seattle
Webb, Pearl N, LA.....	Wenatchee
Webber, Albert H, Engr.....	Portland
Weber, Eugene C, Bus.....	Odessa
Weber, Theodore, LA.....	Seattle
Weber, Walter E, Engr.....	Aberdeen
Webster, Cecil, Engr.....	Seattle
Webster, Odrian A, LA.....	Seattle
Webster, Dorothy Ann, LA.....	Port Angeles
Webster, Edgarrita, LA.....	Los Angeles, Cal
Webster, Marvel R, Bus.....	Seattle
Webster, Shaller F, Bus.....	Wenatchee
Webster, Thomas C.....	Seattle
Weddell, Constance, FA.....	Bellevue
Wedlin, Charles J, Bus.....	Seattle
Wegner, Marie A, Bus.....	Bothell
Weible, George W, FA.....	McKeesport, Pa
Welde, Barbara F, Sci.....	Centralla
Well, Charles F, Engr.....	Seattle
Welmer, Claude N, LA.....	Wenatchee
Weingartner, Richard A, Bus.....	Seattle
Weingartner, Herbert C, Bus.....	Butte, Mont
Weinstein, Nat, Sci.....	Seattle
Weinzirl, Louis, Sci.....	Seattle
Weir, Mary, LA.....	Tacoma
Welsfield, Richard, LA.....	Seattle
Welss, Carlyle, Engr.....	Seattle
Welss, Eleanor, LA.....	Seattle
Welss, Elizabeth P, LA.....	Seattle
Welss, H Carl, Bus.....	Seattle
Welss, Pauline M, Sci.....	Vashon Island
Welborn, Elizabeth, LA.....	Seattle
Welch, C Douglas, LA.....	Tacoma
Welch, H Elizabeth, LA.....	Tacoma
Welch, Laura C, LA.....	Seattle
Weld, Theodore, Bus.....	Rolling Bay
Welikanov, Alexander G, Engr.....	Russia
Welikanov, Antonina, LA.....	Russia
Weller, Raymond W, Bus.....	Olympia
Wellman, Victor E, Grad.....	Enid, Okla
Wells, Arthur L, LA.....	Guthrie, Okla
Wells, George, LA.....	Camas
Wells, Gordon, Engr.....	Spokane
Wells, John Wilson, LA.....	Portland, Ore
Wells, Max L, Bus.....	Seattle
Wells, Mildred June, LA.....	Seattle
Wells, Minor J, Jr, Bus.....	Bremerton
Wells, Ruth T, FA.....	Seattle
Wellsandt, Helen M, LA.....	Walla Walla
Welsh, Marcelline, Sci.....	Du Pont
Wen, Chung Sing, LA.....	China
Wende, Charles, Engr.....	Tacoma
Wendland, Leo, LA.....	Seattle
Wendler, Florence M, Educ.....	Cheney
Wentworth, Henry S, LA.....	Seattle
Wentworth, Margaret, Grad.....	Seattle
Wentworth, Rosamond, LA.....	Seattle
Mornett, Myrtle, FA.....	Pasco
West, Alice, Bus.....	Seattle
West, Carl Miland, FA.....	Tacoma
West, Florence, Sci.....	Ogden, Utah
West, John Talbot, Bus.....	Leavenworth
West, Lucile, Sci.....	Seattle
Westberg, Alfred J, Law.....	Seattle
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Westfall, Virginia, Grad.....	Seattle
Westgard, Blake, Engr.....	Gt Falls, Mont
Westin, Theodore, Bus.....	Arlington
Westmore, Hal G, LA.....	Spokane
Weston, Marguerite, FA.....	Seattle
Westwood, Edward, Law.....	Tacoma
Wetherell, Ernest, LA.....	Seattle
Wetherell, Russell, LA.....	Seattle
Weger, Margaret M, LA.....	Tacoma
Weyermann, Oskar F, Edu.....	St Maries, Ida
Weymouth, A Allen, Sci.....	Seattle
Whalley, Isabel, LA.....	Seattle
Whalley, Theodosia, LA.....	Pateros
Wheatman, Herbert F, Bus.....	Seattle
Wheeler, Carol A, LA.....	Goldendale
Wheeler, Charles T, Bus.....	Seattle
Wheeler, Claire, LA.....	Seattle
Wheeler, R A, Min.....	Seattle
Wheeler, Wallace B, LA.....	Goldendale
Whelan, Elizabeth, Grad.....	Seattle
Whicker, Harold W, LA.....	Seattle
Whitcomb, Rollo R, LA.....	Bellingham
White, Charlie G, LA.....	Cordova, Alaska
White, Chester Winston, FA.....	Seattle
White, Dorothy Janet, Sci.....	Seattle
White, Elizabeth, Sci.....	Seattle
White, James, Engr.....	Mt Vernon
White, James Keith, Bus.....	Washougal
White, Jesse J, Grad.....	Seattle
White, Lorna, FA.....	Seattle
White, Myrtis, Sci.....	Sedro-Woolley
White, Ralph M, Bus.....	Seattle
White, Robert S, Bus.....	Seattle
White, Ronald C, Bus.....	Seattle

White, Rosalind, LA.....	Seattle	Willigar, Mertie, Sci.....	Puyallup
White, Ruth, Isabel, Sci.....	Everett	Willis, Park Weed, Jr, Grad.....	Seattle
White, Sherman, LA.....	Seattle	Willix, Douglas, LA.....	Seattle
White, Wayne E, FA.....	Spokane	Willman, Richard C, Engr.....	Seattle
White, W Wallace, Engr.....	Seattle	Willson, Gerald P, Bus.....	Everett
Whitelaw, John W, Sci.....	Seattle	Willson, Edward A, Engr.....	Everett
Whiteleather, Hazel, LA, Columbia City, Ind		Willmot, Janice, FA.....	Seattle
Whiteleather, J W, LA, Columbia City, Ind		Wilson, Clotilde, Grad.....	Seattle
Whitely, Ruth L, Sci.....	Coeur d'Alene, Ida	Wilson, C Stuart, Engr.....	Detroit, Mich
Whitlock, Victor J, Bus.....	St Paul, Minn	Wilson, Donald E, Bus.....	Seattle
Whitmore, Maude, Sci.....	Buckley	Wilson, Earl R, LA.....	Mt Vernon
Whitmore, Pearl, Edu.....	Tacoma	Wilson, Edith Claire, Sci.....	Seattle
Whitner, Chester, LA.....	Seattle	Wilson, Edmund G, Engr.....	Seattle
Whitney, Gordon L, LA.....	Kirkland	Wilson, Evelyn M, FA.....	Hoquiam
Whittaker, Jack E, Edu.....	Bryn Mawr	Wilson, Francis B, LA.....	Seattle
Whittail, John D, Engr.....	Olympia	Wilson, Helen, FA.....	Seattle
Whittier, Alta, FA.....	Seattle	Wilson, Henry L, Bus.....	Camas
Whittle, W B, LA.....	Seattle	Wilson, James W, LA.....	Seattle
Whittlesay, W C, Engr.....	Seattle	Wilson, Jean E, LA.....	Seattle
Wicke, Mary V, Sci.....	Seattle	Wilsey, Lola, Sci.....	Seattle
Wicker, Charles, Bus.....	Seattle	Wilson, M LaVelle, Bus.....	Walla Walla
Wicker, Jessie, LA.....	Sedro-Woolley	Wilson, Margaret L, LA.....	Seattle
Wickham, Lola, Sci.....	Seattle	Wilson, Marian, LA.....	Seattle
Wicklund, Elsie, FA.....	Seattle	Wilson, Mary Lavelle, Bus, Walla Walla	
Widmann, Nulsen T, Engr.....	Tacoma	Wilson, Olene, LA.....	Blackfoot, Idaho
Wiegman, Raymond J, Fsh.....	Seattle	Wilson, Roy C, Phar.....	Vancouver
Wiel, Lloyd Louis, LA.....	White Bluffs	Wilson, Thelma L, LA.....	Hoquiam
Wiel, H, Bus.....	Seattle	Wilson, Virginia, LA.....	Portland, Ore
Wienand, Fred B, Fsh.....	Seattle	Wilson, Walter W, Bus.....	Seattle
Wiestling, Francesca, LA.....	Sylvan	Wilson, Wendell, LA.....	Yakima
Wiester, Lorena E, LA.....	Seattle	Wilson, Whitney S, For.....	Seattle
Wight, Douglas T, LA.....	Sylvan	Wilson, William, Grad, Great Falls, Mont	
Wightman, Lucille J, LA.....	Seattle	Wilson, William, Bus.....	Walla Walla
Wigmore, Frona E, FA.....	Seattle	Wimberly, William L, Sci.....	Toppenish
Wike, Dorothy E, LA.....	Seattle	Wimmer, Lyle G, Engr.....	Seattle
Wilcox, Clairese, LA.....	Seattle	Winans, Dorothy, FA.....	Seattle
Wilcox, Leonard, LA.....	Seattle	Winegar, Roger M, LA.....	Seattle
Wilde, Drummond Frank, LA.....	Seattle	Windsheim, Karl A, Grad, Kenosha, Wis	
Wilde, Frank B, Bus.....	Seattle	Windhusen, Anne E, Grad, Medical Lake	
Wilde, Sam, Bus.....	Ritzville	Windley, John K, Engr.....	Seattle
Wilder, Norman B, Bus.....	Seattle	Winfree, Theodosia, LA.....	Seattle
Wiley, Alice M, LA.....	Seattle	Wing, Ivan W, LA.....	Seattle
Wilhelm, Margaret, Sci.....	Seattle	Wingate, Mildred, LA.....	Portland, Ore
Wilkie, Lois, LA.....	Seattle	Winkecke, Bernhard T, Engr.....	Raymond
Wilkinson, Madge, Grad.....	Seattle	Winkleplick, Everett N, Phar.....	Tacoma
Wilkinson, M Robert, Engr, Portland, Ore		Winkley, Helen, LA.....	Seattle
Willard, Aileen, Jour.....	Ventura, Cal	Winn, Herbert, LA.....	Seattle
Willard, W R, LA.....	Seattle	Winstock, Lois Belle, LA.....	Seattle
Willert, Madeline, Jour.....	Atascadero, Cal	Winston, Alexander P, LA.....	Seattle
Willey, I Dorothy, FA.....	Seattle	Winston, Pat, LA.....	Seattle
William, Eugene W, Grad.....	Seattle	Winther, Arvid, Bus.....	Billings, Mont
Williams, Agnes C, Sci.....	Seattle	Winther, Oddvar, LA.....	Seattle
Williams, Audrey L, Bus.....	Seattle	Wirth, Henry E, Sci.....	Bellingham
Williams, Barbara, FA.....	Yakima	Wise, Gertrude C, Sci.....	Vancouver
Williams, Blanche H, LA.....	Seattle	Wiseman, Lillian W, Educ.....	Seattle
Williams, Charles, Bus.....	Burton	Wisner, Frances I, FA.....	Grandview
Williams, Desmond B, Bus.....	Kirkland	Wisner, Harold J, Bus.....	Vancouver
Williams, DeWitt, LA.....	Bellingham	Wiswell, Austin, Bus.....	Seattle
Williams, Dorothy T, Grad.....	Seattle	Witenberg, Florence, LA.....	Tacoma
Williams, Edythe, LA.....	Seattle	Witt, Gladys, LA.....	Seattle
Williams, Eleanor, FA.....	Portland, Ore	Woelfel, Paul G, LA.....	Evanston, Ill
Williams, Fay, FA.....	Eatonville	Woempner, Edward, LA.....	Frederick, Colo
Williams, Forrest, Bus.....	Seattle	Wohlmacher, Wm E, FA.....	Tacoma
Williams, W Gayle, FA.....	Seattle	Wolaver, Viola, Bus.....	Seattle
Williams, Harold G, LA.....	Hobart	Wolf, Hal B, LA.....	Seattle
Williams, Helen G, FA.....	The Dalles, Ore	Wolfe, Marjorie, FA.....	Seattle
Williams, Jessie, LA.....	Kalispell, Mont	Wolf, William Morris, LA.....	Vancouver
Williams, John A, Bus.....	Auburn	Wolfe, Harry K, FA.....	Seattle
Williams, Kenneth T, Sci.....	Seattle	Wolfe, Harry L, Bus.....	Seattle
Williams, Leonard J, Bus.....	Ebensburg, Pa	Wolfe, John, LA.....	Seattle
Williams, Marjorie, Sci.....	Seattle	Wolfe, Kathleen, LA.....	Seattle
Williams, Randall S, LA.....	Tacoma	Wolfe, Mary O, Sci.....	Aberdeen
Williams, Robert F, LA.....	Colville	Wolfe, Warren L, Bus.....	Seattle
Williams, Russell, Phar.....	Kelso	Wolft, Joe A, Bus.....	Roy
Williams, Ruth H, Grad.....	Seattle	Wolf, Monte, Bus.....	Seattle
Williams, Thomas, LA.....	Seattle	Wolfe, Norman, Bus.....	Monroe
Williams, H Virginia, FA.....	Seattle	Wolff, Joel Irwin, LA.....	Aberdeen
Williamson, D B, Engr.....	Wilksburg, Pa	Wolff, Stanley D, Phar.....	Seattle
Williamson, James W, LA.....	Columbus, O	Wolff, Thelma, Bus.....	Seattle
Williamson, Marie M, FA.....	Seattle	Wolfe, Dael L, Sci.....	Bremerton
Williamson, Myrtle M, FA.....	Seattle	Wolfe, Elvid E, Sci.....	Bremerton

Wolgemuth, Philip, LA.....	Seattle	Wuthenow, Lee, LA.....	Seattle
Wolthausen, Ray C, Sci.....	Wapato	Wykoff, Loren, Fsh.....	Meadowdale
Wolz, Elsie, LA.....	Seattle	Wyman, Bernice L, FA.....	Seattle
Wong, K Hock, Engr.....	Seattle	Wyman, K S, Engr.....	Seattle
Wong, James M, Bus.....	Sacramento, Cal	Wygarden, John L, LA.....	Granger
Wong, Shing Yipe, Bus.....	Canton, China	Wynn, George E, Bus.....	El Paso, Texas
Wong, Violet, Phar.....	Vancouver, BC	Wynn, Thomas, Educ.....	Ferndale
Wong, Wah-Chin, LA.....	Canton, China	Wynstra, Stanley S, Educ.....	Cheney
Woo, Henry H, Bus.....	Seattle		
Wood, Betty, FA.....	Seattle	Yabroff, Elias, Engr.....	Harbin, China
Wood, Edna Maurine, LA.....	Payette, Ida	Yabuki, Frank T, Engr.....	Bellevue
Wood, Esther Mary, Educ.....	Seattle	Yamato, Frank, FA.....	Seattle
Wood, Francis M, Engr.....	Lynden	Yarr, Josephine, LA.....	Chinacum
Wood, Frank, FA.....	Seattle	Yates, Beatrice, LA.....	Seattle
Wood, Hazel, Edu.....	Seattle	Yates, Stephen T, LA.....	Seattle
Wood, Henry Reece, Engr.....	Aberdeen	Ybojas, Marcelino, Bus.....	Philippines
Wood, Janet Margaret, LA.....	Seattle	Yeager, Dorr G, Grad.....	Grinnell, Iowa
Wood, Laura Linda, LA.....	Vancouver, BC	Yeargan, Roy T, But.....	Kirby, Arkansas
Wood, Leonard M, Bus.....	Seattle	Yen, Jung-Hsu, Bus.....	Peking, China
Wood, Lester W, Bus.....	Seattle	Yeomans, Mary C, LA.....	Boise, Idaho
Wood, Lewis C, Engr.....	Meadowdale	Ygay, Melquiades, Bus.....	Philippines
Wood, Miriam, FA.....	Seattle	York, Anne M, LA.....	Tacoma
Wood, Robert V, LA.....	Walla Walla	York, Harold, Phar.....	Arlington
Wood, Robert E, Bus.....	Seattle	York, Lynn, For.....	Seattle
Wooden, William D, Bus.....	Vancouver, BC	Yoshioka, Fusako, Bus.....	Seattle
Wooden, Retta, FA.....	Kent	Yoshioka, Hideo, Engr.....	Seattle
Woodin, Diadama, Sci.....	Seattle	Yocum, Luella Mary, LA.....	Seattle
Woodman, Elizabeth, LA.....	Seattle	Yonell, John, LA.....	Seattle
Woodman, Josephine, Bus.....	Seattle	Youle, Gretchen, LA.....	Seattle
Woodmansee, Jack, FA.....	Seattle	Yonlden, Edward, Bus.....	Butte, Mont
Woodrow, Judith, LA.....	Newton, Iowa	Youmans, Grace R, Bus.....	Seattle
Woodruff, Elliot, Engr.....	Centralia	Young, Albert S, Fsh.....	Seattle
Woods, Forrest M, Sci.....	Seattle	Young, Catherine, LA.....	Caldwell, Idaho
Woods, Jean Taylor, LA.....	Carmel, Calif	Young, George W, LA.....	Honolulu, TH
Woods, Paul R, Bus.....	Olympia	Young, Gordon S, Sci.....	Honolulu, TH
Woodside, James H, Bus.....	Seattle	Young, Ervin J, LA.....	Seattle
Woodward, C Warren, LA.....	Seattle	Young, Katherine, LA.....	Tacoma
Woodward, Mortimer, Bus.....	Tacoma	Young, Lavonne, FA.....	Seattle
Woodworth, Adelaide, LA.....	Spokane	Young, Lois, Sci.....	Seattle
Woodworth, Alice Anne, LA.....	Concrete	Young, Lucy C, LA.....	Spokane
Woodworth, George S, Bus.....	Seattle	Young, Mae Alice, Grad.....	Charleston
Woodworth, John W, For.....	Concrete	Young, Ralph H, Bus.....	Wenatchee
Woody, Harriet M, LA.....	Okanogan	Young, Ruth, Bus.....	Seattle
Woody, Helen, Sci.....	Okanogan	Young, Wilbur F, Bus.....	Centralia
Woodyard, Harold, Engr.....	Sunnyside	Young, William H, FA.....	Yakima
Woodyard, John, Engr.....	Sunnyside	Younggren, Evelyn, FA.....	Seattle
Woolpert, Dorothea, LA.....	Hood River, Ore	Youngs, Ada C, Bus.....	Everett
Woolston, Katharine, Grad.....	Seattle	Yun, Chao-Kum, Bus.....	Canton, China
Worley, Lee R, Bus.....	Bothell	Ytterdal, Harold, Engr.....	Seattle
Worman, Eugenia A, FA.....	Seattle		
Woron, Ben, Phar.....	Seattle	Zamora, Felix, Sci.....	Philippines
Wortham, R A, LA.....	Seattle	Zamora, Lorenzo L, Law.....	Philippines
Worthington, Kenneth T, Bus.....	Quilcene	Zamuco, Gregorio, For.....	Philippines
Worthington, Hugh, Engr.....	Seattle	Zane, Sim L, Law.....	Seattle
Wren, Harper Chapman, Grad.....	Seattle	Zaniewicz, Rudolf, Engr.....	Seattle
Wrenn, Wellford, LA.....	Seattle	Zaremba, Carl A, Bus.....	Clippner
Wrestling, Francesca, LA.....	Seattle	Zeeb, Kathryn, Sci.....	Haller Lake
Wright, Calvert C, Engr.....	Seattle	Zeeuw, Anna, Sci.....	Kent
Wright, Donald J, LA.....	Seattle	Zeh, George J, Engr.....	Kellogg, Idaho
Wright, Donald S, Bus.....	Seattle	Zeller, Honora, Grad.....	Seattle
Wright, E F, LA.....	Seattle	Zell, Milton, Sci.....	Seattle
Wright, Elizabeth, LA.....	Seattle	Zeorlin, Ramona V, LA.....	Spokane
Wright, Frances E, LA.....	Tacoma	Ziebarth, Emmett A, Bus.....	Seattle
Wright, Frank, LA.....	Seattle	Ziegler, Roy D, LA.....	Stevenson
Wright, J Gordon, LA.....	Seattle	Ziel, Helen Marie, FA.....	Raymond
Wright, John Willis, Grad.....	Seattle	Zillman, Lawrence J, LA.....	Seattle
Wright, Miriam, LA.....	Tacoma	Zillman, Lorene, FA.....	Seattle
Wright, Quintin B, Grad.....	Seattle	Zillix, George, Engr.....	Enumclaw
Wright, Paul W, LA.....	Seattle	Zimmerly, M Ruth, LA.....	Ridgefield
Wright, Robert, Fsh.....	Husum	Zimmerman, Frances, LA.....	Seattle
Wright, Russell L, LA.....	Seattle	Zimmerman, Ralph C, Bus.....	Seattle
Wright, William T, Engr.....	San Diego, Cal	Zioncheck, Marion A, LA.....	Seattle
Wright, William W, FA.....	Seattle	Zorick, Anthony L, Bus.....	Ketchikan, Alas
Wu Chao Gee, Engr.....	China	Zug, Frances Ann, LA.....	Seattle
Wunderlich, June, Jour.....	St Maries, Idaho		
Wurdeman, Walter C, FA.....	Bremerton		

# SUMMER QUARTER STUDENTS—1926

Abel, Albert A, Phar.....	Seattle
Abella, Roman V, Engr.....	Seattle
Abrams, Evelyn, Sci.....	Seattle
Ackemann, Stella, Educ.....	Elgin, Ill
Adair, Prudence, LA.....	Seattle
Adams, Elizabeth, Tran.....	New Haven, Conn
Adams, Jean L, Grad.....	Oroville
Adams, Rutth Marjorie, LA.....	Cheney
Adams, Sidney, Sci.....	Peshastin
Adams, Sylvia, Unmatric.....	Seattle
Adamson, Anna R, LA.....	Seattle
Adamson, Claribel, Sci.....	Odessa, Missouri
Adamson, Merritt C, Grad.....	Port Madison
Addington, Olive, LA.....	Council, Idaho
Agbayani, Pedro B, LA.....	Philippines
Ahrens, Erich A, Grad.....	Tacoma
Aiken, Effie E, LA.....	Seattle
Ailshie, William K, LA.....	Cour d'Alene Idaho
Albaugh, Dorothy, Grad.....	Seattle
Alber, Emma J, Bus.....	Walla Walla
Albin, Vera G, LA.....	Portland, Ore
Alcott, Mary E, Unmatric.....	Tacoma
Alderson, Fay, LA.....	Sheridan, Wyo
Aldridge, Edwin R, Bus.....	Seattle
Aldrich, Ione U, LA.....	Everett
Alexander, Bess M, LA.....	Bellingham
Alexander, Frank E, Educ.....	Lynden
Alinder, Elsie, Grad.....	Seattle
Allemandi, Lenora T, Educ.....	Seattle
Allen, Anna Florence, Jour.....	Seattle
Allen, Doris M, Grad.....	Duvall
Allison, Katherine M, Grad.....	Seattle
Allmain, Helen, Educ.....	Auburn
Altergott, Alex Jr, LA.....	Seattle
Ames, Anita, LA.....	Seattle
Amesberry, Ralph E, LA.....	Anacortes
Amundson, Margaret, Trans.....	Sunnyside
Andersgaard, Amber G, Sci.....	Comstock, Minn
Anderson, Elmer, J, Educ.....	Whitewater, Wis
Anderson, Fred T, Unmat.....	San Francisco
Anderson, Hannah S, Grad.....	Sumner
Anderson, Henrietta, Grad.....	N. Vancouver, BC
Anderson, Ida B, Educ.....	Onelda
Anderson, Lucile R, Educ.....	Duluth, Minn
Anderson, Margaret, FA.....	Seattle
Anderson, Olga C, Grad.....	Yakima
Anderson, Richard K, Trans.....	Seattle
Anderson, Ruth A, Grad.....	Lake Benton, Minn
Anderson, Ruth A, Bus.....	Columbia Falls, Mont
Andrews, Anna M, LA.....	Ashland, Ore
Andrews, Harriett, Sci.....	Seattle
Andrews, Marguerita, Unmat.....	Ashland, Ore
Andrus, Dora E, Educ.....	Seattle
Anfin, Caroline, LA.....	Seattle
Ankele, Felice, Grad.....	Seattle
Appelgate, Kenneth W, Sci.....	Seattle
Archibald, Laura M, Unmat.....	Victoria, BC
Arend, Harry O, Law.....	Spokane
Arms, Dorothy, Sci.....	Outlook
Armstrong, Grace, Grad.....	Bellingham
Armstrong, Harriet E, Sci.....	Tacoma
Armstrong, William L, Bus.....	Havre, Montt
Arnold, William, LA.....	Portland, Ore
Arnold, John A, Grad.....	Tacoma
Arnold, Mary E, Unmat.....	Hoguliam
Arnold, G, Philbrook, Educ.....	Seattle
Ashton, Philip F, LA.....	Seattle
Atkins, Zilpah, Sci.....	Conway, Ark
Atkinson, Dorothy F, Grad.....	Spokane
Atteberry, Hester J, LA.....	Seattle
Attebery, Uri O, Educ.....	Elk
Aumann, Dorothy, LA.....	Port Angeles
Austin, Frances M, Educ.....	Seattle
Austin, Grannis H, LA.....	Seattle
Austin, Mary C, LA.....	Seattle
Avent, Agnes, Unmat.....	Spokane
Avitt, Helen V, LA.....	Seattle
Bachman, Paul, Grad.....	Seattle
Bachman, Raymond, Jour.....	Spokane
Backland, Ellen, Trans.....	Seattle
Bacon, Lula, Unmat.....	Riverton
Badgley, Beulah, Bus.....	Dayton
Baes, Engla B, Educ.....	Seattle
Bagan, Mary E, Unmat.....	Hibbing, Minn
Bailey, Agnes M, FA.....	Bothell
Bailey, Arthur E, Law.....	Seattle
Bailey, Dorothy A, Sci.....	Waitsburg
Bailey, Esther M, Trans.....	Loveland, Colo
Bair Theodore L, LA.....	Dillon, Mont
Baird, J Douglas, Unmat.....	Vancouver, BC
Baird, Edwinna, LA.....	Spokane
Baird, Frank P, Educ.....	Boise, Idaho
Bakeman, Frances, Grad.....	Snobomish
Baker, Athol, LA.....	Naches
Baker, Carl O, Grad.....	Spokane
Baker, Dorothy, LA.....	Seattle
Baker, Esther L, Unmat.....	Lincoln, Neb
Baker, Louise Irene, LA.....	Seattle
Baker, Rena R, Educ.....	Robe
Baker, Willard O, Grad.....	New Plymouth, Ida
Baker, William R, Unmat.....	New Plymouth, Ida
Balogot, Ahmed, LA.....	Bavang, Philippines
Baldwin, W H, LA.....	Seattle
Bale, Genevieve G, Educ.....	Seattle
Banker, Gordon F, Bus.....	Seattle
Barber, Clarence A, Bus.....	Reardan
Bardarson, Mrs Gertrude, FA.....	Seattle
Bardarson, Otto W, Grad.....	Seattle
Barde, Bernard, Trans.....	Butte, Mont
Bare, Margaret, LA.....	Tacoma
Baker, Ivyl C, Grad.....	Denver, Colo
Barker, Loris T, Educ.....	Burlington
Barnes, Frances J, Grad.....	Tacoma
Barnes, Lucy R, Grad.....	Seattle
Barnes, Mary L, Unmat.....	Glen Ullin, ND
Barnett, Mack F, Sci.....	Tacoma
Barawell, Cecile K, Educ.....	Albia, Ia
Barr, Virginia, Sci.....	Seattle
Barrett, Frederick, Unmat.....	Seattle
Barry, Victor H, Educ.....	Pasco
Bartholet, Zita C, Educ.....	Bird Island Minn
Bartlett, Louise, LA.....	Seattle
Barton, Amsel B, Educ.....	Spokane
Batdorf, Beryl, Educ.....	Bellingham
Baughman, Mabel, LA.....	Aberdeen
Baummann, H N, Jr, Grad.....	Seattle
Bayer, Mayme, Educ.....	Fruitland, Ida
Bayles, Edith, LA.....	Seattle
Bayly, Esther R, LA.....	Monroe
Beal, Maud L, LA.....	Seattle
Benn, Mable L, Sci.....	Seattle
Beardsley, Arthur S, Grad.....	Seattle
Beck, Earl A, Unmat.....	Spanish Fork, Utah
Beck, Jean, Sci.....	Seattle
Beckwith, Frances K, LA.....	Seattle
Bedell, Mary E, Grad.....	Seattle
Bedke, Madge, LA.....	Oakley, Ida
Beebe, June, Grad.....	Harrington
Regley, Irene G, Educ.....	Missoula, Mont
Behnke, Clare, LA.....	Sunnyside
Behnke, Nellie, Educ.....	Seattle
Behrens, Eunice C, LA.....	Seattle
Belknap, Nea S, LA.....	Seattle
Bell, Mrs Elizabeth, LA.....	Yakima
Bell, Ethel B, LA.....	Seattle
Bender, Edwin B, Bus.....	Tacoma
Benham, Dorothy, Grad.....	Seattle
Bennett, James G, LA.....	Chinook
Bennett, Lois E, FA.....	Seattle
Bennink, May, LA.....	Everett
Bennison, Mary Ellen, Educ.....	Waverly
Bennison, Olive, Educ.....	Spokane
Benson, Harry T, Grad.....	Pasco
Benthien, Vesa, Educ.....	Mt Vernon

Benton, Hugh H., Jr., LA.....	Seattle	Brook, Mrs Alice, Educ.....	Seattle
Benton, Marion, LA.....	Seattle	Brooks, Sheldon, Educ.....	Eastsound
Berg, Anna M., Educ.....	Doyon, ND	Brotnov, Olga K., FA.....	Bellingham
Berg, Evelyn, Unmat.....	Seattle	Brown, Bess E., LA.....	Tacoma
Berger, Marian M., LA.....	Olympia	Brown, Burlleigh, LA.....	Centralia
Bergh, Violet W., Educ.....	Seattle	Brown, Florence L., Educ.....	Spokane
Bergman, Eunice M., Grad.....	Seattle	Brown, Harry H., Educ.....	Seattle
Berryman, Carl W., Grad.....	Burley, Ida	Brown, J E, Grad.....	Vancouver, BC
Bethke, Millie, LA.....	Seattle	Brown, John E, Fish.....	Seattle
Bettinger, Dawn, FA.....	Edmonds	Brown, Katherine C, Educ.....	Tacoma
Beutel, Margaret, LA.....	Tacoma	Brown, Mrs Lucy S, LA.....	Butte, Mont
Bewley, Ruth L, Grad.....	Seattle	Brown, Otto C, LA.....	Cambridge Spgs, Penn
Bibb, T W, Grad.....	Seattle	Brown, Pansy, FA.....	Chehalis
Bicart, Lucille, Unmat.....	Fulton Kan	Brown, Robert W, Journ.....	Seattle
Biggs, Catherine, Grad.....	Seattle	Brown, Sarah E, FA.....	Port Angeles
Bigley, Mrs Eleanor W, Unmat.....	So Prairie	Brown, Victoria, Unmat.....	Spokane
Bigley, John, Educ.....	So Prairie	Brown, William H, Fish.....	Seattle
Billings, Freda, Unmat.....	Seattle	Browne, Marjory C, LA.....	Wenatchee
Bird, Emma M., Educ.....	Seattle	Browning, Kathleen G, LA.....	Menlo
Bishard, Lydia, Unmat.....	Seattle	Broz, Maybelle, Educ.....	San Jose, Calif
Bishop, Dorothy, Grad.....	Everett	Broz, William R, Sci.....	Tacoma
Bitner, Grace, Grad.....	Vernon, Tex	Bruff, Ettie J, Educ.....	Yakima
Black, Alberta F, Educ.....	Tacoma	Brummett, Wahnetah, Trans.....	Dixon, Ill
Black, Dorothy, LA.....	Seattle	Buchanan, Lorna M, Grad.....	Clear Lake
Blackenburg, Zelda D, LA.....	Newberg, Ore	Buchanan, Phyllis, Unmat.....	Spokane
Blacknell, L A, FA.....	Seattle	Buck, Margaret, LA.....	Yakima
Blade, Frank J, Law.....	Seattle	Buckbee, Grace J, Educ.....	Minneapolis, Minn
Blahm, Emma M., Educ.....	Walla Walla	Buckley, Wallace, Educ.....	Colville
Blair, Lynette, FA.....	Deer Lodge, Mont	Budde, Charles A, Grad.....	Skykomish
Blanchard, Ida, Educ.....	Seattle	Buddress, Elmer, LA.....	Seattle
Blanchard, Leonora, Pharm.....	Seattle	Buedall, Anton, Grad.....	Muskegon, Mich
Blanchard, Mary, Grad.....	Seattle	Buhl, Frances, Grad.....	Seattle
Blankenship, William R, Grad.....	Walla Walla	Bulfinch, Dorothy, Educ.....	Weston, Ore
Blomquist, Bleakney R, Grad.....	Walla Walla	Bullock, Cecil, Grad.....	Seattle
Blomquist, Harold B, Educ.....	Walla Walla	Bunker, Evans C, Bus.....	Monrovia, Calif
Blomquist, Mrs L S, Grad.....	Lewiston, Ida	Burlleigh, Bess M, Educ.....	Seattle
Bloom, William H, LA.....	Spokane	Burnam, David L, FA.....	Anacortes
Bloomfield, E Jervis, LA.....	Vancouver, BC	Burnman, Grace L, Unmat.....	Anacortes
Blount, George W, Unmat.....	Dunham, Cal	Burnett, Alta H, Educ.....	Seahurst
Bohanon, Hobart L, Unmat.....	Seattle	Burns, Jessie, LA.....	Seattle
Bohart, Ruby M, Grad.....	Seattle	Burns, Omar A, Grad.....	Seattle
Bolton, Edwin L, Grad.....	Concrete	Burnside, Mary F, Grad.....	Lewiston, Ida
Bomar, Richard J G, Sci.....	Seattle	Burroughs, A P, LA.....	Irvington-on-Hudson, NY
Bonnett, H B, Grad.....	Seattle	Burston, Ray J, Pharm.....	Seattle
Booker, Fay, Grad.....	Seattle	Bush, Mrs Helen T, Grad.....	Seattle
Booman, Albert, Grad.....	Lynden	Busler, Edna, LA.....	Ellensburg
Boomer, Frances N, Sci.....	Sunnyside	Butler, Rena, LA.....	Everett
Booth, Myrna E, Grad.....	Missoula, Mont	Butler, Walter R, LA.....	Everett
Boterman, Annette, Unmat.....	Davis, SD	Butrick, Mrs H Edith, Unmat.....	Seattle
Botsford, Frances, Educ.....	Albion, NY	Butsch, Russell L C, Grad.....	Ritzville
Boudry, C Milbourn, Grad.....	Seattle	Button, Arthur O, Educ.....	Toledo
Bowen, Alice, Educ.....	Tacoma	Butts, Alfred B, Unmat.....	Starkville, Mass
Bowman, Laura M, Educ.....	Yakima	Butts, Lucille A, Unmat.....	Chico, Calif
Bowne, Mrs Nona D, Unmat.....	Valleyford	Byers, Alden S, Sci.....	Seattle
Boyd, Decker T, Unmat.....	Maquoketa, Ia	Byers, Elizabeth, LA.....	Seattle
Boyd, Patricia, LA.....	Seattle	Byrne, Carly K, Trans.....	Colfax
Braden, Alice, Unmat.....	Summerville, Penn	Byrnes, Robert E, Bus.....	Kallispell, Mont
Bradley, Florence D, Educ.....	Selah	Byron, Margaret, Grad.....	Seattle
Branch, Mabel, LA.....	Seattle		
Brandner, H Phil, For.....	Seattle	Cabattit, Irineo R, LA.....	Philippines
Brannon, Julia, LA.....	Seattle	Cable, Henry, Educ.....	Sunnyside
Brannon, Ruth, Unmat.....	Auburn	Cain, Estill V, Grad.....	Seattle
Bratton, Robert X, Grad.....	Walla Walla	Cain, Russell A, Grad.....	Seattle
Brauti, Ruth, Unmat.....	Salem, Ore	Calapini, Juan, Engr.....	Seattle
Brearley, Ethel M, LA.....	Seattle	Caldan, Hazel, LA.....	Puyallup
Breazeale, Edna, Grad.....	Mt Vernon	Calder, Mary E, Educ.....	Dwight, Ill
Breckner, Elmer L, Grad.....	Olympia	Caldwell, Mrs Grace, Unmat.....	Seattle
Breed, Mary E, Unmat.....	Blaine	Caldwell, Reta, LA.....	Spokane
Breen, Margaret J, Educ.....	Seattle	Caldwell, Viola, Unma.....	Seattle
Breneman, Theda, Unmat.....	Kansas City, Mo	Calhoun, Charles E, Grad.....	Seattle
Brethorst, Louise, LA.....	Seattle	Callison, Henry S, Bus.....	Aberdeen
Brewer, Mrs Valva, LA.....	Dryden	Callow, D J, Grad.....	Elma
Brewer, Vincent R, Educ.....	Seattle	Cameron, Alyce, Grad.....	Moscow, Ore
Brey, Frances M, Unmat.....	Porterville, Calif	Campbell, Flora E, Grad.....	Sherwood, Ida
Brickert, Josephine, Educ.....	Coeur d'Alene, Ida	Campbell, Josephine M, LA.....	Rolling Bay
Briggs, Dorothy E, Grad.....	Opportunity	Campbell, Katherine, FA.....	Seattle
Briscoe, Jacob W, Bus.....	Grangeville, Ida	Campbell, Mrs Maurine, Grad.....	Seattle
Bristol, Margaret, Bus.....	Seattle	Campbell, Robert A, Grad.....	Rosalia
Britton, Cathryn, FA.....	Wilbur	Cannon, Hayes, LA.....	Butte, Mont
Bromberg, Bernice, LA.....	Vancouver		

Cardiff, Mrs Myrtle, Unmat.....	Yakima
Carey, Marie, LA.....	Butte, Mont
Carlander, Marjorie, FA.....	Longview
Carlson, M Alice, Unmat.....	Seattle
Carlson, Effie A, LA.....	Squamish
Carlson, Evar, Bus.....	Aberdeen
Carlson, John A, Grad.....	Seattle
Carlson, Mable A, Educ.....	Chinook
Carlson, Ruth L, Bus.....	Aberdeen
Carlson, F Waldemar, Unmat.....	Naselle
Carnes, Esther, Unmat.....	Port Orchard
Carpenter, Ruth S, Unmat.....	Seattle
Carr, Mrs Ellen G, Sci.....	Seattle
Carasow, Elsie L, Sci.....	Odessa
Carstens, Alma L, Grad.....	Yakima
Carter, Elizabeth H, LA.....	Seattle
Carter, Glenn E, LA.....	Sumner
Casper, Barry, LA.....	Seattle
Cass, Bessie, Grad.....	Seattle
Cassidy, Dorothy C, Grad.....	Seattle
Cathey, F Warren, Grad.....	Seattle
Cattle, Edith A, Grad.....	Seattle
Caulfield, Marie, Unmat.....	Salt Lake, Utah
Caulkins, Glenn, Grad.....	Cashmere
Cavanaugh, Edith F, Grad.....	Seattle
Cavanaugh, Esmer, Educ.....	Seattle
Cavender, Fern, Bus.....	Seattle
Cecil, Mrs Eva M, LA.....	Lindsay, Calif
Chadwick, Edna R, Grad.....	Seattle
Chaffee, Winifred, Unmat.....	Millersville, Ill
Chambers, J E, For.....	Gallspolis, Ohio
Chan, George L, Bus.....	China
Chang, Hugh P, Grad.....	Peking, China
Chang, Looh, Bus.....	China
Chan-Yam, Victor, Grad.....	China
Chase, Dorothy, LA.....	Edmonds
Chase, Frances L, Educ.....	Seattle
Chastain, Maude, LA.....	Seattle
Cheever, Genevieve W, Grad.....	Wenatchee
Chen, David H, LA.....	Nanking, China
Cheney, Carol, Grad.....	Vader
Cheney, Ona F, Educ.....	Spokane
Cheung, Henry S, Law.....	Canton, China
Chhoa, A Biau, LA.....	Formosa
Child, Elizabeth, FA.....	Seattle
Chin, Poy S, Bus.....	Seattle
Christensen, Ferdinand A, Bus.....	Seattle
Christopher, Marjorie E, Grad.....	Seattle
Christy, Dagmar, Educ.....	Seattle
Chu, Tung Chi, Bus.....	China
Church, Anna B, Grad.....	Tacoma
Churchill, Doris, LA.....	Ellensburg
Churchill, Verne, Bus.....	Seattle
Chute, Clyde C, Unmat.....	Vancouver, BC
Clampitt, Mary M, Unmat.....	Jacksonville, Ill
Clancy, Alice, FA.....	Seattle
Clark, Celia L, LA.....	Mt Vernon
Clark, Elizabeth R, Educ.....	Ellensburg
Clark, Eva S, Sci.....	Seattle
Clark, Helen T, Unmat.....	Wenatchee
Clark, Lenore B, Grad.....	Reedsport, Ore
Clark, Lou Ena, Grad.....	Palmyra, Mo
Clark, Wesley M, Grad.....	Spokane
Clarke, Lillian, LA.....	Seattle
Clausen, H E, Unmat.....	Seattle
Clemmer, Ruth, Sci.....	Yakima
Clevenger, Ruby, Educ.....	Seattle
Clifton, Evelyn, Grad.....	Seattle
Cline, Ida Riste, LA.....	Seattle
Clyne, Edna G, Unmat.....	Seattle
Cobb, Tina M, Grad.....	Richmond Beach
Cody, Mary E, Educ.....	Butte, Mont
Cohen, Joseph, Grad.....	Seattle
Colt, Wilbur A, Unmat.....	Seattle
Coker, Harold T, Grad.....	Nampa, Ida
Cole, Eva L, Unmat.....	Bellingham
Cole, Kenneth C, Bus.....	Seattle
Cole, Miriam, Grad.....	Seattle
Cole, Sylpha J, LA.....	Bellingham
Collins, Wallace G, LA.....	Seattle
Colman, Walter M, LA.....	Seattle
Comegys, Eva, Bus.....	Snohomish
Conditt, Charlotte F, Grad.....	Hogerman, Ida
Cone, Dwight, Educ.....	Bellingham
Conlee, Carolyn J, Grad.....	Bellingham
Connell, Laura M, Grad.....	Fond du Lac, Wis
Connolly, B Genevieve, Educ.....	Hensler, ND
Connolly, Grace, LA.....	Portland, Ore
Constable, Heywood, Grad.....	Gig Harbor
Converse, Adella M, LA.....	Butte, Mont
Converse, Josephine, Grad.....	Butte, Mont
Cook, Byron L, Unmat.....	Calgary, Canada
Cook, David L, Unmat.....	Seattle
Cook, Esmer M, Unmat.....	Bellingham
Cook, Marjorie, Sci.....	Seattle
Cook, Richard H, Grad.....	Seattle
Cook, Richard H, Sci.....	Bellingham
Coombs, Maye, Unmat.....	Evansville, Ind
Coon, Grace, Educ.....	Yakima
Cooper, Charles, Sci.....	Seattle
Cooper, Isabel D, Grad.....	Tacoma
Copeland, Eunice D, LA.....	Seattle
Copenhaver, Gladys, LA.....	Toppenish
Copley, Blanche C, LA.....	Bremerton
Corbally, John E, Grad.....	South Bend
Corkrum, F Carl, Unmat.....	Walla Walla
Corlett, Donald A, Bus.....	Portland, Ore
Cornelius, Helene, FA.....	Seattle
Corner, Miriam G, Grad.....	Wenatchee
Costantino, Rosa, FA.....	Clayton
Costello, Margreta, LA.....	Spokane
Coulter, Dorothy B, Educ.....	Seattle
Cowan, James, Educ.....	Puyallup
Cowden, Neva, Educ.....	Seattle
Craig, Harden, Jr, Trans.....	Iowa City, Ia
Crandall, Marguerite B, LA.....	Seattle
Crandell, Maud L, Unmat.....	Seattle
Crane, Pearl, Unmat.....	So Sioux City, Neb
Crankshaw, Claude P, Grad.....	Monroe
Crapser, Anna H, Grad.....	Tacoma
Creamer, Evelyn M, Grad.....	Ferndale
Creamer, Una L, Grad.....	Ferndale
Cremer, Henry, Grad.....	Seattle
Christman, Martha E, Grad.....	Portage
Crofoot, Mentha, Grad.....	Seattle
Crofoot, Vanita, Grad.....	Seattle
Cronin, Anna M, Unmat.....	Butte, Mont
Crossley, Helene, LA.....	Burlington
Crottinger, Clara M, FA.....	Seattle
Croy, Donald C, Educ.....	Puyallup
Crumbaker, Calvin, Grad.....	Missoula, Mont
Crummett, Ella, Educ.....	Conway
Culmsee, Corine, LA.....	Nada, Utah
Cummings, Blanche M, LA.....	Tacoma
Cummings, Kathryn M, LA.....	Tacoma
Cummins, Freda B, FA.....	Seattle
Cunningham, Gertrude, Grad.....	Puyallup
Currie, Ina, Unmat.....	Cashmere
Curry, Eva P, Educ.....	Byron
Cussons, Lois, LA.....	Cooperstown, ND
Cutler, Bernice, FA.....	Seattle
Dabney, Elmer S, LA.....	Maltby
Dahl, Dora E, Educ.....	Seattle
Dalgh, Margaret L, Grad.....	Seattle
Dalms, Edith M, Unmat.....	Brooklyn, NY
Dale, Anga M, FA.....	Parkland
Dally, Mary E, Unmat.....	Seattle
Daly, Elizabeth, LA.....	Port Townsend
Damon, Frank A, Bus.....	Prosser
Danner, Earl Y, Grad.....	Seattle
Darby, Edith B, LA.....	Spokane
Dark, Eleanor S, Grad.....	Bellevue
Daubenspeck, Marion, Grad.....	Seattle
Daugherty, Anna M, Grad.....	Seattle
Davidson, Phillip A, Law.....	Prosser
Davies, Anne, LA.....	Carbonado
Davies, Elizabeth, Grad.....	Spokane
Davies, Enid, Grad.....	Seattle



Davis, Beatrice F. Grad....	Bozeman, Mont
Davis, Chauncey D. Educ.....	Alderton
Davis, Florence, Grad.....	Tacoma
Davis, Laura C. Unmat.....	Seattle
Davis, Lois E. LA.....	Seattle
Davis, Mrs Manima W. LA.....	Seattle
Davis, Mercie I. Grad.....	Donald
Davis, William R. Bus.....	Great Falls, Mont
Davison, Elmer E. Grad.....	Seattle
Dawson, J C. For.....	New Denver, BC
Day, Aletta, FA.....	Bellingham
Day, Vernon Paul, Unmat.....	Colfax
Dean, Grace, Sci.....	
Dean, Helen R. Bus.....	Yakima
Dean, Ray, Grad.....	Longview
Deasy, Catherine, Educ.....	Seattle
Decker, Alice M. Unmat.....	Everett
Deering, Esther A. Educ.....	Snohomish
DeFreest, Kathryn, LA.....	Honolulu, TH
DeGarmo, Gerald, Law.....	Seattle
De Lamater, Mae, Unmat.....	Edmonds
Del Duca, Domenica, Educ.....	Seattle
De Long, Edyth, LA.....	Everett
De Long, Leslie V. Unmat.....	Seattle
De Lozier, Ortelie, Trans.....	Newport, Tenn
Dempsey, Lucille, Trans.....	Spokane
Denhof, Sherlie, Bus.....	Seattle
Dennis, Ruth A. Unmat.....	Seattle
Derig, Will M. Law.....	Seattle
Devanna, Aileen W. LA.....	Auburn
Devera, DeEtte, Grad.....	Seattle
Dewhurst, Janet, Grad.....	Seattle
Dick, Bessie M. Educ.....	Seattle
Dick, Gordon W. LA.....	Seattle
Dickerman, Frances L. FA.....	Seattle
Dickerman, H E. Grad.....	Seattle
Dickey, Marion, Unmat.....	Everett
Didron, Oscar, LA.....	Seattle
Dilling, Margaret, LA.....	Seattle
Dillon, Ruby L. Grad.....	Portland, Ore
Dimmitt, Alva W. LA.....	Renton
Dingle, Leila V. LA.....	Seattle
Dinsmoor, Twyla G. Educ.....	Elma
Dittmer, C C. Educ.....	Sweet Grass, Mont
Diveley, Anna B. Unmat.....	Tacoma
Diveley, Mary B. Grad.....	Tacoma
Dixon, Beryl, Grad.....	Ft Collins, Colo
Dobbins, C S. Unmat.....	New Westminster, BC
Dobbs, E Doris, LA.....	Forest Grove, Ore
Dobbs, Frances E. Sci.....	Pinshurst
Dobler, Evelyn, Unmat.....	Tacoma
Dobrin, Hilda, LA.....	Yakima
Dodge, Bradley M. Educ.....	Seattle
Dodge, Elva M. Sci.....	Portland, Ore
Domalanta, Fortunato, Bus.....	Philippines
Donahoe, Agnes M. Grad.....	Rosalia
Donahue, Alfred B. Educ.....	Seattle
Donoghue, B F. LA.....	Seattle
Donaldson, Hallie, FA.....	Allyn
Dooley, Bertha R. Grad.....	Nampa, Ida
Doran, Evelyn, LA.....	Seattle
Dorris, William W F. Bus.....	Seattle
Dorsey, Blanche P. Educ.....	Seattle
Dorsherty, Ollie, Bus.....	Seattle
Douglas, Mrs Helen, Grad.....	Winlock
Douglas, Jean E. LA.....	Seattle
Doumit, Mitchell, Law.....	Cathlamet
Doyle, Edgar P. Engr.....	Snohomish
Drake, Helen H. Educ.....	Portland, Ore
Drake, Mildred E. Grad.....	Portland, Ore
Draper, Edgar M. Grad.....	Ontario, Ore
Drever, Helen, LA.....	Seattle
Driscoll, Anna M. Sci.....	Kalispell, Mont
DuBois, Ella L. Educ.....	Seattle
DuBuque, Wilma, LA.....	Index
Dudley, Nellie C. Unmat.....	Seattle
Dunagan, Maude, LA.....	Ferndale
Duncan, Charles A. LA.....	Seattle
Duncan, Clifford W. Grad.....	Corvallis, Ore
Duncan, Margaret M. Sci.....	Custer
Dunn, L Agnes. Unmat.....	Tacoma
Dunn, Edward B. Bus.....	Seattle
Dunn, Florence, FA.....	Spearfish, SD
Dunn, Helen, Grad.....	Waterville
Dunn, Yenchuen Y. Grad.....	China
Dunning, Guy E. Grad.....	Washutuna
Dupertuis, Jean, Grad.....	Rolling Bay
DuPuis, William E. Unmat.....	Spokane
Durheim, Ruth, Unmat.....	Seattle
Durose, Fred W. Sci.....	Seattle
Durrwachter, Hilda, Educ.....	Seattle
Durrwachter, Irma, Educ.....	Seattle
Duwe, Dora, Educ.....	Marysville
Dwilla, Chloia E. Unmat.....	Dixon, Ill
Dwyer, Katharine M. Grad.....	Spokane
Dyer, Vera, LA.....	Salt Lake City, Utah
Dyergt, Mrs Eloise B. Unmat.....	Seattle
Dykstra, R G. Educ.....	Seattle
Eager, Marion C. Sci.....	Vancouver
Eastman, Violet M. Grad.....	
Eby, George S. Grad.....	Vancouver
Eckelson, Genevieve E. LA.....	Portland, Ore
Eckert, Donald M. Engr.....	Seattle
Eckmann, Ansel C. Law.....	Seattle
Edwards, Flora M. Grad.....	Everett
Edwards, George W. Grad.....	Seattle
Edwards, Joseph O. FA.....	Parkland
Edwards, Lora J. LA.....	Oakdale
Edwards, Mrs Marietta E. Unmat.....	Seattle
Edwards, Muriel, Unmat.....	Malta, Mont
Egan, Ida, Unmat.....	Seattle
Egbers, Mark W. LA.....	Spokane
Ehret, Arthur W. Grad.....	Selah
Eichelroth, Genevieve, Unmat.....	Litchfield, Ill
Eidal, Elmer O. Educ.....	Olympia
Eidal, Otto C. Educ.....	Wilkeson
Elkelbner, George C. Jr. FA.....	Wenatchee
Elkenbary, orothea, Grad.....	Seattle
Eisenmann, Augusta, Grad.....	Neb City, Neb
Elbert, Mary J. Sci.....	Sedro-Woolley
Elder, Raymond W. Educ.....	Seattle
Eldridge, Ferris E. Grad.....	Seattle
Eldridge, Mrs Lena, Grad.....	El Paso, Tex
Elford, Elizabeth, Trans.....	Seattle
Elledge, Lela M. Grad.....	Seattle
Elliott, John D. Grad.....	Pasadena, Calif
Elliott, Minnie P. Sci.....	Redstone, Mont
Elliott, Richard C. Sci.....	Tacoma
Elliott, Stanley M. LA.....	Seattle
Ellis, Averil L. Unmat.....	Tonasket
Ellis, M Bea. Unmat.....	Jacksonville, Ill
Ellis, David C. Grad.....	Tonasket
Ellis, Mrs Gertrude B. Educ.....	Anacortes
Elmer, Maud V. Unmat.....	Seattle
Elson, J Alfred, Unmat.....	St Peter, Minn
Elwick, Andrew, Educ.....	Seattle
Embrey, Alonzo, Unmat.....	Seattle
Emmett, Cordella, LA.....	Edmonds
Emmons, Harold W. Law.....	Seattle
Endres, Teresa, Educ.....	Spokane
Engle, Leona, LA.....	Tacoma
English, Alice M. Unmat.....	Seattle
English, Anna J. Grad.....	Butte, Mont
English, Elsie, Grad.....	Seattle
Epton, J Wilsale, Sci.....	Seattle
Erickson, Daisy H. Unmat.....	Auburn
Erickson, Ellsabeth E. Grad.....	Kent
Erickson, Gladys J. LA.....	Seattle
Erickson, Jewell A. Grad.....	Seattle
Erlanger, Mrs Katherine B. Educ.....	Seattle
Esmay, Lillian G. Educ.....	Ollie, Mont
Estep, Amy J. Grad.....	Seattle
Estepa, Sotero, Grad.....	Philippines
Euler, Ruth, Educ.....	Seattle
Evans, Bessie N. Unmat.....	Kapowsin
Evans, W Fred, Bus.....	Vancouver, BC
Evans, Irene, Bus.....	Bellingham
Evanson, Ella C. LA.....	Seattle

Evenson, Rachel P L, Unmat...Mora, Mont

Fair, Jessie, Unmat.....Seattle  
 Fairman, Louise, LA.....Seattle  
 Farnalls, Margaret, FA.....Eal Kirk, Alta  
 Farner, Edna E, Unmat.....Seattle  
 Farrell, Katherine, Grad.....Butte, Mont  
 Farrell, Margaret.....Butte, Mont  
 Farrell, Mary, Grad.....Butte, Mont  
 Fate, Hugh B, Grad.....Montour, Ida  
 Fay, Dorothy B, LA.....Seattle  
 Featherstone, Harriet, LA.....Wallace, Ida  
 Feek, Charles, LA.....Clinton  
 Fenton, Elizabeth, LA.....Seattle  
 Ferguson, Lois G, Sci.....Seattle  
 Ferrier, W K, Grad.....Milwaukie, Ore  
 Ferry, Frances, FA.....Seattle  
 Fickel, Ruth, Sci.....Everett  
 Field, Catherine, Unmat.....Janesville, Wis  
 Finch, Marie S, Unmat.....Cusick  
 Finch, Virgil T, Sci.....Cusick  
 Finke, Inga, Unmat.....Bowbells, ND  
 Finseth, Karen D, Sci.....Brush Prairie  
 Fisher, Grace A, Unmat.....Portland, Ore  
 Fisher, Ray D, Unmat.....McMinnville, Ore  
 Flaken, Ruth K, Educ.....Spokane  
 Flitch, Arthur L, Grad.....Sandpoint, Ida  
 Flitch, Handly B, LA.....Vancouver, BC  
 Fitzgerald, Hattie M, Grad.....Seattle  
 Fitzgerald, Lillian, Educ. West De Pere, Wis  
 Fitzgerald, Petronilla, Unmat. Wala Walla  
 Fitzmaurice, Bertrand, Sci.....Seattle  
 Fitzpatrick, May, Bus.....Seattle  
 Fitzsimmons, Margaret, Educ.....Vancouver  
 Fitzsimmons, Mary, Educ.....Vancouver  
 Fjalar, Aagot J, LA.....Arlington  
 Flaherty, Maurice, Unmat.....Waterloo, Ia  
 Flannery, Gladys, LA.....Ryder, ND  
 Fleming, Evangeline, Unmat.....Burke, Ida  
 Fleming, Gladys E, Unmat.....Corvallis, Mont  
 Fleming, Samuel E, Grad.....Seattle  
 Fletcher, Blanche, FA.....Seattle  
 Fletcher, Helen, LA.....Grants Pass, Ore  
 Fletcher, Margaret, Unmat.....Victoria, BC  
 Flock, Eunice, Educ.....Kellogg, Ida  
 Flood, George E, Law.....Seattle  
 Flynn, Madeline, LA.....Spokane  
 Foley, Anna H, Grad.....Victor, Mont  
 Foley, Vernie M, Sci.....Hamilton, Mont  
 Folsom, Morrill, LA.....Labota  
 Fonacier, Guillermo C, LA.....Philippines  
 Foott, William H, Engr.....Portland, Ore  
 Forcum, Preston L, Engr.....Seattle  
 Ford, Gertrude, Grad.....Trenton, Nebr  
 Ford, Mae, Unmat.....Escanada, Mich  
 Ford, Ruth, Unmat.....Escanada, Mich  
 Ford, William F, LA.....Seattle  
 Forkner, Donna M, Grad.....Wahpeton, ND  
 Forrest, Jack, LA.....Seattle  
 Forrest, Veda, Grad.....Bellingham  
 Forrester, Nellie M, Unmat.....Seattle  
 Forster, F E, Grad.....Seattle  
 Foster, Estella, Unmat.....Tacoma  
 Foster, Olive R, Grad.....Denver, Colo  
 Foster, Philip R, Grad.....Palmyra, Mo  
 Foster, Ruth, Unmat.....Springfield, Mo  
 Fountain, Harold A, Jolrn.....Clarkston  
 Fouts, Edith E, LA.....So Sioux City, Nebr  
 Fowler, Elizabeth, Sci.....Seattle  
 Fowler, Franklin W, Grad.....Darrington  
 Fowler, Myra P, Grad.....Tacoma  
 Francis, Irene F, Sci.....Philippines  
 Franklin, Grace, LA.....Newhall, Ia  
 Franklin, W H, Grad.....Newhall, Ia  
 Fraser, M Kathlyn, Unmat.....Creston  
 Frater, Frances, Grad.....Riddle, Ore  
 Frater, Gwendolene L, LA.....Tacoma  
 Freda, Evelyn, Unmat.....Oakland, Calif  
 Freeman, Esther O, Educ.....Washtucna

Freeman, Jennie M, Educ.....Washtucna  
 Freeman, Trunette A, Educ.....Centralla  
 French, Jesse I, Bus.....Seattle  
 French, Merle C, Grad.....Vancouver  
 French, William P, Engr.....Seattle  
 Frick, Wesley, Sci.....Dayton  
 Fritz, Ida M, Unmat.....Bartley, Neb  
 Fry, Charles A, Grad.....Portland, Ore  
 Fry, Iva M, Educ.....Hoquiam  
 Fryer, Elsie E, Grad.....Doland, SD  
 Fryer, Valliere D, Grad.....Tacoma  
 Fuller, Emille S, Grad.....Seattle  
 Fuller, Frances O, Educ. Park Rapids, Minn  
 Fuller, John W, Educ.....Granite Falls  
 Fulton, Lois M, Grad.....Asotin  
 Funk, Virginia, Educ.....Walla Walla  
 Furgeson, Carey, LA.....Seattle  
 Furlong, Lucy, Unmat.....N Hibbing, Minn

Gaffney, Ruth A, LA.....Seattle  
 Gaines, John H, Grad.....Harlowton, Mont  
 Galbraith, Mary G, Educ.....Seattle  
 Gallagher, Agnes, Educ.....St Maries, Ida  
 Gallagher, Eileen, LA.....Seattle  
 Gallagher, Helen, LA.....St Maries, Ida  
 Gallinger, Edythe, FA.....Seattle  
 Galob, Mary E, Unmat.....Seattle  
 Ganders, Mary L, Grad.....Port Angeles  
 Garbe, Frank A, LA.....Chehalis  
 Garborg, Ruth M, FA.....Seattle  
 Gardner, Carl L, LA.....Seattle  
 Gardner, Ida, Sci.....Sandy, Utah  
 Garland, Cathran, Grad.....Seattle  
 Garred, Ward, Bus.....Coulee  
 Garrett, Jean, LA.....Seattle  
 Gaustad, Vide, Trans.....Los Angeles, Calif  
 Gayler, Ernest, LA.....Bremerton  
 Geer, Bernice L, Sci.....Basin, Wyo  
 Geer, Willard, Educ.....Attalla  
 Gehring, Anton, Unmat.....Yakima  
 Gellermann, Louis W, Grad.....Seattle  
 Gellermann, William, Grad.....Oroville  
 Genauer, Sam, LA.....Seattle  
 George, Dorothy A, Sci.....Seattle  
 George, Mary M, LA.....Seattle  
 Gerhauser, Violet, LA.....Spokane  
 Gerriets, Bertha L, LA.....Mt Vernon  
 Gerriets, Eva A, Grad.....Mt Vernon  
 Gerrish, Olive M, Grad.....Seattle  
 Geyer, Albert, Unmat.....Wenatchee  
 Gibbard, Enid, Sci.....Seattle  
 Gibson, W L, LA.....Seattle  
 Gibbs, William W, LA.....Seattle  
 Gihlin, Arthur, LA.....Tacoma  
 Gibson, Cella E, Educ.....Everett  
 Gibson, Clara A, LA.....Everett  
 Gibson, Jessie E, Unmat.....Spokane  
 Gifford, Catharine, Grad.....Dubuque, Ia  
 Gilbert, Harold S, Bus.....Seattle  
 Gilchrist, Lois N, Educ.....Everett  
 Gill, Cecilia M, FA.....Seattle  
 Gillen, Charlotte Z, FA.....Chelan  
 Gillenwaters, Theodore R, Trans. Goldendale  
 Gillespie, James C, Educ.....Peck, Ida  
 Gillett, Agnes, Grad.....Walla Walla  
 Gillette, Cora M, LA.....Seattle  
 Gillis, Gwendolyn C, Unmat. Victoria, BC  
 Gilshannon, Warren, Sci.....Seattle  
 Gingrich, Esther M, Educ.....Spokane  
 Gittins, G W, Unmat.....McCammon, Ida  
 Gittins, Harriet R, Unmat. McCammon, Ida  
 Glanville, Arthur T, Grad.....Seattle  
 Glass, Rose, Grad.....Seattle  
 Glaze, Nina M, Bus.....Seattle  
 Gleaves, Hilda, Unmat.....Boise, Ida  
 Glenn, Wesley S, LA.....Seattle  
 Glover, O K, Grad.....Seattle  
 Gnagy, Mr Muriel J, Grad.....Tacoma  
 Godsey, Bess H, LA.....Bellevue

Good, Olga, Unmat.....	St Vincent, Minn	Haller, Theodore, Engr.....	Seattle
Good, Gail H, Unmat.....	St Vincent, Minn	Halvorson, Nellus O, Grad.....	Boise, Ida
Goodsell, Julia, Sci.....	Chelan	Hambert, Nona C, Grad.....	Spokane
Goos, Lydia S, Educ.....	Spokane	Hambleton, Edith L, Grad.....	Joyce
Gorow, Frank F, Sci.....	Seattle	Hammer, Gunda, Grad.....	Eugene, Ore
Gorrell, W Genevieve, LA.....	Seattle	Hammond, Allen O, Grad.....	Seattle
Goulet, Georgene, Unmat.....	Seattle	Hammond, Marguerite, Pharm.....	Seattle
Gowen, Sylvia, LA.....	Seattle	Hampton, Jane G, LA.....	Salt Lake City, Utah
Grace, Robert H, Law.....	Seattle	Hanbury, Elsie W, Unmat.....	Orland, Calif
Gradon, Madge, Unmat.....	Seattle	Hand, Roger E, LA.....	Seattle
Grafft, Clark F, LA.....	Everett	Hankinson, Helen A, Grad.....	Moscow, Ida
Grafton, Marlea, LA.....	Spokane	Hanna, J Craig, LA.....	Ontario, Calif
Grahn, Raynold T, Bus.....	Seattle	Hansen, Alice M, LA.....	Portland, Ore
Grant, Earl, Unmat.....	Harrington	Hansen, Augusta, Educ.....	Walla Walla
Grant, Jeanie, LA.....	Seattle	Hansen, Herbert, Educ.....	Bellingham
Grant, Mrs Thelma W, Unmat.....	Harrington	Hansen, Ralph B, Engr.....	Seattle
Grass, Lorette B, Educ.....	Tacoma	Hanson, Alice E, LA.....	Turtle Lake, ND
Graves, Florence W, Grad.....	Sandpoint, Ida	Hanson, Esther, Grad.....	Sumner
Gray, Andrew E, LA.....	Seattle	Hanson, H A, Fish.....	Seattle
Gray, Emanuel A, LA.....	Seattle	Harden, Mabel Z, FA.....	Seattle
Gray, Helen F, LA.....	Marshfield, Ore	Hardman, Ethel R, Unmat.....	Olympia
Gray, R Leonel, Grad.....	Milton, Ore	Hardwick, Francis T, Grad.....	Everett
Greathouse, Nina L, Educ.....	Portland, Ore	Haring, Robert C, Engr.....	Seattle
Greely, Gilbert F, Bus.....	Seattle	Harper, Elizabeth E, Unmat.....	Everett
Green, Marvel, Sci.....	Seattle	Harrah, Bessie M, Unmat.....	Seattle
Green, Thomas M, Jr, Law.....	Seattle	Harris, David M, Sci.....	Seattle
Greenberg, Theo O, Trans.....	Portland, Ore	Harris, Dorothy, Trans.....	Seattle
Gregg, Dorothy D, FA.....	Chehalis	Harris, Fred O, Grad.....	Seattle
Gregory, W Charles, Grad.....	Battleground	Harris, Georgia, Grad.....	Seattle
Griep, Elmer F, Engr.....	Seattle	Harris, Grace R, Unmat.....	Chicago, Ill
Griffin, Daisy B, Educ.....	Bellingham	Harris, John F, LA.....	Seattle
Griffin, Ellen G, Unmat.....	Seattle	Harris, Leland S, Sci.....	Seattle
Griffith, Wallace, Grad.....	Salem, Ore	Harrison, Elizabeth, LA.....	Seattle
Grigg, Arthur P, Unmat.....	Saginaw, Mich	Hart, Ruth M, Grad.....	Tacoma
Griggs, Jay H, Educ.....	Yakima	Harth, Ada M, Educ.....	Langley
Grimes, Carol, LA.....	Mt Vernon	Hartle, George, Bus.....	Seattle
Gross, Katherine J, Educ.....	Seattle	Harvey, Nellie, LA.....	Seattle
Grosse, Ruby, LA.....	Shoshone, Ida	Hatch, Charles E, Educ.....	Lester
Groth, John H, Grad.....	Seattle	Hatheway, Helen, Educ.....	Seattle
Groth, Joyce, LA.....	Seattle	Hatley, Mamie C, Grad.....	Seattle
Grove, Clare, LA.....	Nenana, Alas	Hatley, Porter, Educ.....	Lynden
Grove, Leon C, Educ.....	Nenana, Alas	Haug, John, Bus.....	Bellingham
Groves, Emma C, Unmat.....	Spokane	Hauswuld, Richard L, Unmat.....	Seattle
Grunewald, Lucile R, Grad.....	Pasadena, Calif	Havens, Mareta, Grad.....	Fletcher Bay
Grythman, Caroline, LA.....	Spokane	Hawk, Frank H, Educ.....	Oakdale, Nebr
Gulang, Pedro G, Educ.....	Philippines	Hawkins, Alma H, Unmat.....	Bellingham
Gulford, Margaret S, Grad.....	Orland, Calif	Hay, Nell, LA.....	Portland, Ore
Gullen, Filemon, LA.....	Philippines	Hayes, Lucile, Unmat.....	Portland, Ore
Gullick, John D, Bus.....	Seattle	Haynes, Adele A, Unmat.....	Tacoma
Gulliksen, Harold, LA.....	Seattle	Haynes, Charles D, Grad.....	Missoula, Mont
Gurick, Estella J, Unmat.....	Gillespie, Ill	Hazen, Kathryn, Grad.....	Auburn
Guthrie, Elton F, LA.....	Seattle	Healy, Kathryn L, Grad.....	Roberts, Ida
Habicht, Helen, LA.....	Seattle	Heaslip, Leonard W, Grad.....	Vancouver, BC
Haddow, Helen, Unmat.....	Seattle	Hebb, Paul H, LA.....	Seattle
Hadley, Ella E, Educ.....	Ellensburg	Heer, Ralph W, Bus.....	Seattle
Hagar, Irene A, LA.....	Olalla	Helmhaugh, Vinnetta, Sci.....	Seattle
Hagglund, Vera, LA.....	Port Blakely	Helms, Adelina, Grad.....	Louisville, Ky
Hagman, Jennie, Unmat.....	Stanfield, Ore	Helse, Irvin F, Educ.....	Valdez, Alas
Hagle, C E, Grad.....	Wrangell, Alas	Heller, Carolyn, Sci.....	Seattle
Hagist, Alfred C, LA.....	Seattle	Helphrey, Mary F, Bus.....	Spokane
Hagist, Mary L, Educ.....	Seattle	Hemphill, Elizabeth, Educ.....	Seattle
Haglund, Ivar, LA.....	Seattle	Hender, Maudie, Educ.....	Pomeroy
Hahn, Genevieve K, Sci.....	Seattle	Henderson, Cora E, LA.....	Seattle
Hahner, Alice, Educ.....	Spokane	Henderson, Elizabeth, Unmat.....	Colfax
Hahner, Olive, Sci.....	Spokane	Henderson, Frank D, Educ.....	Aberdeen
Halman, Lewis, LA.....	Lake Bay	Henderson, Grace, Educ.....	Seattle
Hale, Undril S, Unmat.....	Vancouver	Henderson, Lawrence E, Bus.....	Seattle
Halfhill, Nedra, LA.....	Los Angeles, Calif	Hendrick, Marian, FA.....	McMinnville, Ore
Hall, Bertha A, Unmat.....	Los Angeles, Calif	Henrikson, Ernest, Unmat.....	Portland, Ore
Hall, George M, Educ.....	Winlock	Henriot, Jane C, LA.....	St Louis, Mo
Hall, Grace G, LA.....	Omaha, Nebr	Henriot, Richard L, LA.....	Seattle
Hall, Luella, Grad.....	Seattle	Henry, Florence, LA.....	Tacoma
Hall, Mamie L, Unmat.....	Rupert, Ida	Henry, Rossie, Educ.....	Seattle
Hall, Pearl A, Grad.....	Caldwell, Ida	Henry, Ruth S, Educ.....	Alderwood Manor
Hall, Ruth, Grad.....	Caldwell, Ida	Hepperle, Charlotte, FA.....	Dubuque, Ia
Hall, Vesper T, Grad.....	Seattle	Herman, Helen, FA.....	Ritzville
Hall, Virginia L, FA.....	Caldwell, Ida	Hermann, Ida M, LA.....	Seattle
Haller, Mary E, Grad.....	Cumberland, Md	Herren, Dora S, LA.....	Seattle
		Harrington, Edna, Grad.....	Spokane
		Hesseltine, Lee F, Educ.....	Seattle

Hicks, Alice R, Unmat.....	Seattle	Ingalls, Pearl A, Educ.....	Everett
Hicks, Ethel D, Educ.....	Seattle	Inglis, Ralph L, Bus.....	Seattle
Hicks, Frank W, Unmat.....	Minot, ND	Inglis, Virginia, FA.....	Seattle
Hicks, Helen B, Educ.....	Seattle	Ingraham, L, Winifred, Educ.....	Seattle
Hicks, A Laura, Unmat.....	Seattle	Irish, C, L, Educ.....	Seattle
Hieber, C Gordon, Bus.....	Wilbur	Isaacs, Ruth F, Grad.....	Seattle
Higgins, Frank R, LA.....	Merced, Calif		
Hill, Arthur R, Bus.....	Seattle	Jacklin, Doris A, Bus.....	Seattle
Hill, Glen G, Grad.....	Rederwood	Jackson, Betty, Grad.....	Seattle
Hill, Margaret E, Educ.....	Waimea, Hawaii	Jackson, Dorothea, Educ.....	Seattle
Hill, Martha E, LA.....	Seattle	Jackson, Elizabeth J, LA.....	Sunnyside
Hillis, Arnetta, Grad.....	Seattle	Jackson, K Elizabeth, Sci.....	Seattle
Hillman, G K, Engr.....	Seattle	Jackson, Kirby E, Grad.....	Nashville, Tenn
Hillyer, Theodore F, LA.....	Yakima	Jackson, Mary J, Educ.....	Seattle
Hilton, Maude H, LA.....	Seattle	Jackson, Pauline F, Grad.....	Coleman, Ter
Himes, Florence M, Grad.....	Missoula, Mont	Jackson, Thelma, FA.....	Auburn
Himes, Hazel, Grad.....	Montesano	Jacobs, Winifred B, Sci.....	Seattle
Himes, Velma, LA.....	Montesano	Jacobsen, P A, Engr.....	Seattle
Hinckley, Martha, FA.....	Seattle	Jacobson, Ida C, Educ.....	Seattle
Hines, Edith M, Educ.....	Big Rapids, Mich	Jardine, Nan T, Grad.....	Seattle
Hinman, Lorene, LA.....	Yakima	Javito, Fernin, LA.....	Philippines
Hoag, Alberta, LA.....	Seattle	Jeffery, Harold B, Engr.....	Seattle
Hoard, Ruth V, Sci.....	Seattle	Jeffries, Mary A, LA.....	Sandpoint, Ida
Hobart, Alexandra, Trans.....	Ventor City, NJ	Jennings, Deborah, Trans.....	Salt Lake City, U
Hodge, James W, Unmat.....	Cheney	Jensen, Ethel M, LA.....	Portland, Ore
Hodge, Warren C, Grad.....	Kennebec	Jensen, Everett A, Bus.....	Walla Walla
Hodgskiss, William L, Grad.....	Harrington	Jensen, Helen, Unmat.....	Seattle
Hodgskiss, Winifred R, Grad.....	Harrington	Jensen, Merrill M, FA.....	Woonsocket, SD
Hodshire, Lelya, Educ.....	Davenport	Jergensen, Emma L, LA.....	Seattle
Hoffland, Henry H, Grad.....	Seattle	Johanson, Esther D, Bus.....	Bellingham
Hoffland, Laura F, LA.....	Seattle	John, Helen, Grad.....	Corvallis, Ore
Hoffman, Dorothy S, LA.....	Seattle	Johns, Leota L, LA.....	Seattle
Hogan, Clara H, Unmat.....	Seattle	Johnson, G Adolph, Sci.....	Longbranch
Holisington, Carl W, Unmat.....	Kalispell, Mont	Johnson, Alida R, LA.....	Seattle
Holden, James H, Grad.....	Seattle	Johnson, Anna J, LA.....	Kapowsin
Hollomon, J Paul, Pharm.....	Olympia	Johnson, Arthur F, Sci.....	Seattle
Holmes, Emma J, Unmat.....	Alexandria, Minn	Johnson, Berkley G, Educ.....	Long Beach
Holmes, John H, LA.....	Seattle	Johnson, Carl G, Educ.....	Bellingham
Holmes, Kathryn M, Trans.....	Seattle	Johnson, Elizabeth, LA.....	Hogquam
Holt, Ella F, Unmat.....	Caldwell, Ida	Johnson, Ellen, Unmat.....	Butte, Mont
Holte, Herman J, Sci.....	Seattle	Johnson, Ethel C, LA.....	Mercer Island
Holtman, Emmarie, Educ.....	Boonville, Mo	Johnson, Eva M, Sci.....	Rochester
Homan, Rose, Trans.....	Fresno, Calif	Johnson, Gladys I, Grad.....	Tacoma
Hoof, Bruce F, LA.....	Bellingham	Johnson, Helen A, Unmat.....	Seattle
Hornstra, Fred H, Grad.....	Seattle	Johnson, Helen H, Grad.....	Superior, Wis
Houck, Margaret C, LA.....	Spokane	Johnson, Helena A, Unmat.....	Winlock
Houston, LeRoy W, Bus.....	Sumner	Johnson, Helena H, Sci.....	Iiwaco
Hoverson, Evelyn, Unmat.....	Beach, ND	Johnson, Hugo N, Engr.....	Seattle
How, Jessie K, Educ.....	Seattle	Johnson, Isyl, Grad.....	Tacoma
Howard, Helen E, LA.....	Stanwood	Johnson, Mildred O, Educ.....	Spokane
Howard, Inez C, LA.....	Manette	Johnson, Milton S, LA.....	Seattle
Howard, Lina W, LA.....	Seattle	Johnson, Ralph C, Grad.....	Mercer Island
Howatt, Alice I, FA.....	Yakima	Johnson, A Rex, Grad.....	Provo, Utah
Howe, Drayton F, Trans.....	Seattle	Johnson, Rex H, LA.....	Seattle
Howe, Ramel B, Educ.....	Olympia	Johnson, Swen O, Grad.....	Kirk, Nebr
Howe, Renel L, Unmat.....	Edmonds	Johnson, Verner W, Grad.....	Cooperstown, ND
Howie, Ethel L, Unmat.....	Omaha, Nebr	Johnson, C Vinston, Unmat.....	Wakefield, Neb
Hoyt, Mary P, LA.....	Libby, Mont	Johnson, Vivian H, LA.....	Olympia
Hsueh, Donald T, Grad.....	Foochow, China	Johnston, Daniel H, Grad.....	Seattle
Huang, Pei Kun, LA.....	China	Johnston, B Helen, Grad.....	Victoria, BC
Huff, Edyth B, LA.....	Yakima	Johnston, Mrs Ida F, Educ.....	Seattle
Huff, Elizabeth, LA.....	Monroe	Johnston, Margaret, LA.....	Butte, Mont
Huff, Elizabeth N, LA.....	Baker, Ore	Johnston, Marjorie D, FA.....	Seattle
Hughes, Clara L, Unmat.....	Topeka, Kan	Jolliffe, Edna P, Grad.....	Tacoma
Hughes, Gladys, Educ.....	Seattle	Jones, Annie L, Educ.....	Cle Elum
Hughes, Margaret J, Unmat.....	Seattle	Jones, Edward W, Unmat.....	Portland, Ore
Hultman, Clara I, Educ.....	Walla Walla	Jones, Estelle E, Educ.....	Ithaca, NY
Hunter, Ella W, Unmat.....	Los Angeles, Calif	Jones, Hannah, Educ.....	St Paul, Minn
Hunter, Myrtle C, Grad.....	Santa Fe, NM	Jones, Ione L, Sci.....	Hogquam
Hurd, Guy W, Educ.....	Puyallup	Jones, Jennie M, Unmat.....	Seattle
Hurd, May, Educ.....	Seattle	Jones, Kate M, Unmat.....	Litchfield, Minn
Hurt, Ethel, Unmat.....	Horseshoe Bend, Ida	Jones, Lydia R, Educ.....	Renton
Huse, Esther L, LA.....	Weiser, Ida	Jones, Ralph P, LA.....	Seattle
Hutchison, Neil, FA.....	Seattle	Jones, Wilfred, Educ.....	Sunnyside
Hutton, Evelyn I, LA.....	Dayton	Jordan, Andrew A, LA.....	Seattle
Hutton, Marian A, Educ.....	Wallace, Ida	Jordan, Kathryn, LA.....	Everett
Hyland, Mary, FA.....	Seattle	Jordan, Marjorie J, Educ.....	Everett
		Jordan, Paul, Bus.....	Sacramento, Calif
Ihlo, Thilda, Educ.....	Newfolden, Minn	Joyce, Charles E, Unmat.....	Ladner, BC
Imus, Raymond K, Grad.....	Bellingham		

Judd, Margaret, LA.....Seattle  
 Judy, Edrie R, Sci.....Seattle  
 Jule, Walter, Bus.....Seattle  
 Jurgensohn, Eva, Grad.....Seattle

Kaan, Y T, Bus.....Hongkong, China  
 Kaas, Arnold B, Grad.....Ferndale  
 Kahin, Helen, Grad.....Seattle  
 Kaiser, Gladys G, Grad.....Seattle  
 Kamb, Leona, Sci.....Mt Vernon  
 Kane, Anna B, Educ.....Seattle  
 Kane, Cecilia, FA.....Auburn  
 Kane, Kathleen, FA.....Seattle  
 Kao, Chin-Chi, Bus.....Batavia, Java  
 Kaplan, Alex S, LA.....Seattle  
 Kassebaum, Karl F, LA.....Seattle  
 Katayama, Elmer, Bus.....Seattle  
 Kautz, Bernice, Educ.....Seattle  
 Keegan, Sarah E, LA.....Spokane  
 Keene, Mildred, LA.....Seattle  
 Kehrl, Walter M, LA.....Kent  
 Keith, Allie H, Grad.....Dillon, Mont  
 Keith, Bertha, Unmat.....Butte, Mont  
 Keith, Mildred, Grad.....Casper, Wyo  
 Keith, Vernadel E, Unmat.....Butte, Mont  
 Keleher, Stella B, Unmat.....Wisconsin  
 Kellett, Gladys M, Unmat.....Seattle  
 Kelley, Louise V, Grad.....Everett  
 Kellner, Esther, LA.....Coeur d'Alene, Ida  
 Kemp, Maurine, FA.....Oto, Ia  
 Kempkes, Jay A, Grad.....Everett  
 Kennedy, B Bloise, Grad.....Seattle  
 Kennedy, Marjorie, LA.....Tacoma  
 Kenney, Edith E, Sci.....Denning  
 Kenney, Russell, Grad.....New Plymouth, Ida  
 Kenny, James B, Engr.....Victoria, BC  
 Kent, Vida B, Unmat.....Everett  
 Kephlinger, Laurence M, Law.....Bellingham  
 Kerchen, Joseph V, LA.....Kirkland  
 Kernighan, Edith, LA.....Buckley  
 Kerr, John L, LA.....Seattle  
 Kerry, Albert S, Jr, LA.....Seattle  
 Kessler, George, Grad.....Seattle  
 Kiehl, Clarence L, Bus.....Livingston, Mont  
 Kiekenapp, Hortense, Educ.....Seattle  
 Kienholz, Edward G, Educ.....Edwall  
 Kildow, George O, Grad.....Worley, Ida  
 Kilkenney, Rose, FA.....Heppner, Ore  
 Kimball, Jessie M, Grad.....Seattle  
 Kimball, William B, Jr, LA.....Seattle  
 Kimpfe, William A, Sci.....Seattle  
 King, Ben Randall, Grad.....Othello  
 King, Eleanor V, Sci.....Seattle  
 King, Elmina M, Unmat.....Othello  
 King, Florence, Educ.....Seattle  
 King, Grace E, Grad.....Seattle  
 King, Herbert B, Grad.....Vancouver, BC  
 King, James G, LA.....Seattle  
 King, Jean Paul, LA.....Tacoma  
 King, June L, LA.....Nampa, Ida  
 King, Robert M, LA.....Seattle  
 King, William A, Grad.....Seattle  
 Kingman, M Keith, LA.....Chelan  
 Kinkade, Lucille, Grad.....Forsyth, Mont  
 Kinney, Amy, Educ.....Cashmere  
 Kirby, Cleo L, Bus.....Cle Elum  
 Kirklin, Lee I, Unmat.....Seattle  
 Kirsch, John, Bus.....Seattle  
 Kirschner, Ora, LA.....Portland, Ore  
 Kizer, Kenneth B, Grad.....Kapowsin  
 Kizer, Robert B, LA.....Tacoma  
 Klein, Gretha, LA.....Fort Steele, BC  
 Klein, Nelle D, Grad.....Orange, Calif  
 Kling, Fridolf C, Bus.....Missoula, Mont  
 Klingberg, Minnie M, FA.....Hoquiam  
 Klorin, Mark, FA.....Harbin, China  
 Knapton, Florence M, Sci.....Seattle  
 Knapp, Margaret, Sci.....Snohomish  
 Knight, Rebecca S, Educ.....Seattle

Knips, E Helene, Grad.....Grants Pass, Ore  
 Knouse, Marjorie A, FA.....Seattle  
 Knowlton, Charlotte J, FA.....Butte, Mont  
 Knuth, William E, Grad.....Spangle  
 Knuths, Bernice, Grad.....Seattle  
 Knutson, Knute J, Educ.....Seattle  
 Koch, Samuel, Grad.....Seattle  
 Koen, Josephine R, Educ.....Prosser  
 Koenig, John, Grad.....Nisqually  
 Koert, Peter, LA.....Lynden  
 Kofoid, Gladys H, Unmat.....Caruthers, Calif  
 Kolasa, Mary I, Unmat.....Orofino, Ida  
 Kopika, Irja, FA.....Seattle  
 Koppe, Clifford W, LA.....Vancouver  
 Korin, Herman J, Sci.....Seattle  
 Kracower, Louis D, Trans.....Seattle  
 Kramer, Ferdinand, LA.....Ritzville  
 Kregar, G H, Engr.....Tacoma  
 Kriegel, Ida M, Unmat.....Santa Maria, Calif  
 Kreutzberg, Mabel, Unmat.....Seattle  
 Krueger, Harold A, Unmat.....Wausau, Wis  
 Kucera, John P, Grad.....Lacey  
 Kurth, Edith A, LA.....Milwaukee, Wis  
 Kwaan, Tim On, Trans.....Shanghai, China

Laccoarce, Velma, Unmat.....Clarkston  
 Laird, Thelma L, Grad.....Seattle  
 Lake, Alice L, Educ.....Port Townsend  
 Lamb, B V, Grad.....Seattle  
 Lamb, Rose M, Unmat.....Flat, Alaska  
 Lambert, Helen M, Educ.....Raymond  
 Lambrecht, Lillian, LA.....Butte, Mont  
 Lamson, Florence A, LA.....Sheridan, Ore  
 Landahl, Hazel, Educ.....Seattle  
 Landeen, Herbert A, Bus.....Seattle  
 Lang, Harold A, Grad.....Bozeman, Mont  
 Lappenbusch, Anna M, Sci.....Buckley  
 Lappenbusch, Lulu C, Educ.....Buckley  
 Lappenbusch, Marie J, Educ.....Buckley  
 Largent, Mary D, Grad.....Boise, Ida  
 Larkin, Frances, Grad.....Seattle  
 Larkin, Lucretia S, Grad.....Seattle  
 Larkin, William J, Engr.....Seattle  
 Larse, Mona J, Grad.....Seahurst  
 Larsen, Henry N, Grad.....Seattle  
 Larsen, Jessie K, FA.....Chewelah  
 Larson, Loretta A, FA.....Yakima  
 Larson, Gladys E, Educ.....Yakima  
 Larson, Madeline, Educ.....Tacoma  
 Larson, Nettie, Sci.....Tacoma  
 Larson, Victoria, LA.....Anaconda, Mont  
 Lash, Frederick M, Grad.....Camas  
 Lasnier, Evelyn L, LA.....Seattle  
 Lassek, Arthur M, Sci.....Seattle  
 Lathers, Gladys, Grad.....Seattle  
 Latimer, Margaret, LA.....Seattle  
 Latimer, Vernon G, LA.....Seattle  
 Laube, Florence M, LA.....Seattle  
 Laubscher, Ruth, LA.....Seattle  
 Laurence, Alice, Grad.....Ellensburg  
 Laurence, D Helen, Trans.....Ellensburg  
 Lawen, Amalia R, Educ.....Seattle  
 Lawrence, Charles W, Unmat.....Seattle  
 Lawrence, Mildred, Unmat.....E Cleveland, O  
 Lawson, Gertrude I, Unmat.....Vancouver, BC  
 Layden, G, Unmat.....Minneapolis, Minn  
 Lazo, Bonifacio, LA.....Philippines  
 Leach, Harvey J, Educ.....Kent  
 Leach, Shirley W, Bus.....Olympia  
 Learned, Allan M, LA.....Hadlock  
 Leatherwood, Wm F, LA.....Burlington  
 Le Blank, Ethel M, Educ.....Goldendale  
 Lechman, Virginia M, FA.....Grandview  
 Leckenby, Dorothy, Grad.....Seattle  
 Leckey, Martha J, LA.....Burwell, Nebr  
 Le Compte, George A, Sci.....Shelton  
 Le Compte, M, Bus.....Lynden  
 Lee, Anna B, Unmat.....Everett  
 Lee, Gladys, LA.....Goldendale

Lee, Helen I., LA.....	Fresno, Calif	Lynch, Patricia G., Journ.....	Seattle
Lee, Ian T., LA.....	Formosa	Lynch, Thomas C., Grad.....	Seattle
Lee, Jean E., LA.....	Enumclaw	Lynn, Austin, Bus.....	Seattle
Lee, Theopa, Educ.....	Goldendale		
Lee, Yoon T., Sci.....	China		
Lee, Y M., Bus.....	Vancouver, BC		
Lee, Y T., Science.....	China		
Lefebvre, Almee, Educ.....	Seattle		
Legg, Emily, Grad.....	Seattle		
Lehman, Arnold J., Grad.....	Seattle		
Lehne, Florenz C., LA.....	Pasco		
Leighton, Lucille M., Unmat.....	Lincoln, Nebr		
Leighton, Roy S., Bus.....	Seattle		
Leitch, Marjorie, FA.....	Seattle		
Lemenager, Ray, Bus.....	Seattle		
Lenon, Lucile, Grad.....	Tacoma		
Lenning, Wm J., Unmat.....	Ft Benton, Mont		
Lentz, Marie B., Bus.....	Yakima		
Leonard, Arthur L., LA.....	Seattle		
Leonard, Edgar H., Jr, Trans.....	Waltzburg		
Leong, Stephen, Trans.....	Portland, Ore		
Lero, Bertha, Unmat.....	Petersburg, Alas		
Leslie, Anna, LA.....	Seattle		
Levitin, Isaac, Bus.....	Seattle		
Levitin, Morris, Grad.....	Seattle		
Lewis, Rubin M., Grad.....	Seattle		
Lewis, Wilma, LA.....	Seattle		
Libbee, Freda A., Educ.....	Seattle		
Lievassy, Jack L., LA.....	Seattle		
Likes, Marie W., Grad.....	Orting		
Likes, Myrton D., Grad.....	Orting		
Lind, Anna R., LA.....	Mt Vernon		
Lind, Ethel, Educ.....	Brownsville		
Lindblad, Nellie, Educ.....	Bellingham		
Lindsay, Mzie, Grad.....	Seattle		
Ling, Setek, Fish.....	China		
Linn, Mrs Jo T., Unmat.....	Palouse		
Lippmann, Edith, John.....	Seattle		
Listmann, Grace, Sci.....	Yakima		
Liston, Edward J., Grad.....	Orilla		
Little, Alice M., Educ.....	Bellingham		
Little, Jean F., LA.....	Spokane		
Lloyd, Edna B., Educ.....	Seattle		
Locke, Ruby L., Unmat.....	Kansas City, Mo		
Lockwood, Maude, Unmat.....	Spokane		
Loe, Elsie, LA.....	Seattle		
Lottfield, Gabriel, Grad.....	Seattle		
Logan, Albert V., Grad.....	Umatilla, Ore		
Lombard, Eunice, LA.....	Yakima		
Long, Agnes, LA.....	Seattle		
Long, Helen K., Sci.....	Cle Elum		
Longenbaugh, May M., LA.....	Seattle		
Lonhelm, Alton M., LA.....	Seattle		
Lopp, Ellen K., LA.....	Seattle		
Lord, Marion, Sci.....	Yakima		
Lorenzen, Hilda M., Educ.....	Pendleton, Ore		
Lothrop, Daniel J., Grad.....	Seattle		
Lothrop, Rex E., Grad.....	Corvallis, Ore		
Louge, W Dick, Sci.....	Seattle		
Lovejoy, Albert R., Grad.....	Seattle		
Loveless, Frances, Sci.....	Coeur d'Alene, Ida		
Loving, Eleanor, Sci.....	Camp Lewis		
Loving, Marianne, LA.....	Camp Lewis		
Lowman, James G., Educ.....	Seattle		
Lowman, Vivian G., Grad.....	Seattle		
Lowry, Edith M., Grad.....	Bellingham		
Lowry, Inez, Unmat.....	Milwaukee, Wis		
Lucas, Marian, Sci.....	Victoria, BC		
Lucas, Marion M., Grad.....	Seattle		
Luce, Daisy, LA.....	Seattle		
Luce, Florette, Unmat.....	Denver, Colo		
Lumbard, Roy, LA.....	Seattle		
Lumsden, Lorene, Unmat.....	Roslyn		
Lund, John G., Law.....	Seattle		
Lurie, Manuel A., Law.....	Seattle		
Lurie, Elise M., LA.....	Seattle		
Lycette, Edythe E., FA.....	Spokane		
Lynch, Gertrude, LA.....	Seattle		
Lynch, Isabelle, Grad.....	Yakima		
Lynch, Kathryn R., Sci.....	Sunnyside		
McAlear, Georgene, Unmat.....	Denver, Colo		
McAllister, Adalouie, Grad.....	Missoula, Mont		
McAllister, Geraldine, LA.....	Seattle		
McBride, Katherine, Educ.....	Berkeley, Calif		
McCabe, Florence C., LA.....	Virginia, Minn		
McCabe, Helen D., Grad.....	Seattle		
McCaig, Grace R., Grad.....	Spokane		
MacCallum, Janet, Educ.....	Port Angeles		
McCarthy, Patrick D., Grad.....	Butte, Mont		
McClain, Dorothy, FA.....	Seattle		
McClure, Willard, FA.....	Seattle		
McConnell, Ruth M., Unmat.....	Snohomish		
McCorkle, Emily C., Unmat.....	Portland, Ore		
McCormick, Helen E., Grad.....	Mt Vernon		
McCush, George, Law.....	Bellingham		
McDermott, Gertrude B., Educ.....	Spokane		
McDermott, Paul, LA.....	Pateros		
McDonald, Anna, Unmat.....	Rosemount, Minn		
McDonald, Cecilia, LA.....	Seattle		
McDonald, G Eora, Grad.....	Seattle		
McDonald, Eva B., LA.....	Bonners Ferry, Ida		
McDonald, Miriam A., Educ.....	Cheney		
McDonald, Reginald, Unmat.....	Spokane		
McDonald, Ruby A., Trans.....	Seattle		
McDonald, Vernon C., Educ.....	Sedro-Woolley		
McDonough, Otto G., Grad.....	Cordova, Alas		
McDowall, Jessie, Unmat.....	Vancouver, BC		
McEacheran, Don A., Unmat.....	Gig Harbor		
McElvain, Ernest E., Educ.....	Seattle		
McEntyre, Alice M., LA.....	Seattle		
McEntyre, George, LA.....	Seattle		
McEvoy, Alice, Unmat.....	Kirkland		
McFaddin, Mary E., Sci.....	Spokane		
McFarland, Mildred A., Unmat.....	Kirkland		
McFee, Louisa, LA.....	Seattle		
McGill, Alice, Sci.....	Seattle		
McGirr, Elizabeth, Unmat.....	Ontario, Ore		
McGrane, Theodora, LA.....	Lewiston, Ida		
McGuinness, Charles D., Educ.....	Snohomish		
McGuire, Grace A., FA.....	Seattle		
McIntosh, Elizabeth, LA.....	Seattle		
MacIntyre, A J., LA.....	Port Alberni, BC		
McKay, Francis H., Grad.....	Spokane		
McKay, Herndon, Bus.....	Spokane		
McKay, Lorraine, Grad.....	Seattle		
McKean, Herbert A., Unmat.....	Ellensburg		
McKee, Mary B., Grad.....	Seattle		
McKelvie, Mary, LA.....	Seattle		
McKenzie, Anne, LA.....	Tacoma		
McKenzie, Earl L., Educ.....	Seattle		
MacKenzie, Georgina, Educ.....	Everett		
MacKinnon, Kay, LA.....	Seattle		
McKinnell, Eloise M., Educ.....	Seattle		
McKinney, Nellie, Unmat.....	Yakima		
MacKinnon, Anabel, FA.....	Spokane		
McLain, Ada E., Grad.....	Spokane		
McLean, Martin, Jr, LA.....	Seattle		
McLennan, Elfreda M., Educ.....	Cloverdale, Ore		
McLeod, Florence B., LA.....	Seattle		
McLeod, Mildred, LA.....	Seattle		
McManus, Lee R., Sci.....	Cashmere		
McManus, Mildred, Grad.....	Vancouver, BC		
MacMaster, Marion, Unmat.....	Eugene, Ore		
McMillan, Rachel, Unmat.....	Oren		
MacNaughton, Ellen, Grad.....	Waukesha, Wis		
MacNaughton, Margaret, Unmat.....	Vanc'r, BC		
MacNaughton, Marie, Unmat.....	Vancouver, BC		
McNee, John, LA.....	Snohomish		
McNee, La Vara, LA.....	Snohomish		
McNeill, Nellie F., Grad.....	Tenino		
McQuesten, Roseanna, Bus.....	Tacoma		
McRae, Ruth, FA.....	Seattle		
McReavy, Clare, LA.....	Bellingham		
McRoberts, Dona, Sci.....	Seattle		
McTague, Margaret A., Unmat.....	Dixon, Ill		

Mack, Lorena, F.A.	Longview
Madden, Amy Lee, Educ.	Butte, Mont
Madigan, Blanche, Unmat.	Roslyn
Madison, Fred H, Grad.	Ft Benton, Mont
Magaard, Mabel, Educ.	Rice Lake, Wisc
Magillcuddy, Martha, Grad.	Seattle
Magnus, Ida L, LA.	Seattle
Magnusson, M, Unmat.	Garden Grove, Calif
Mahone, Lena L, LA.	Seattle
Mahrt, David F, Educ.	Keardan
Major, Jessie D, Unmat.	Kearney, Neb
Major, Sidney W, LA.	Seattle
Malloy, Jocelyn M, Grad.	Seattle
Malone, Helen G, Educ.	Missoula, Mont
Maltby, Jeannette G, Grad.	Spokane
Manard, Lucille, Grad.	Seattle
Mantel, Theodore, Grad.	Seattle
Mantel, Vega P, Educ.	Seattle
Mapes, William, LA.	Aberdeen
Maplethorpe, Marion, Educ.	Puyallup
Mar, S T Reginald, LA.	Seattle
Marchand, Ernest, Grad.	Seattle
Marick, Louis, Grad.	Butte, Mont
Mark, Bethel, LA.	Oregon
Mark, Lee E, LA.	Seattle
Mark, Sara N, Grad.	Seattle
Marley, Elizabeth, Unmat.	Seattle
Marquis, Ralph W, Grad.	Bellingham
Marshall, B M Jr, Sci.	Eureka, Calif
Marston, C May, Grad.	Seattle
Martin, Byrom L, Sci.	Deep Creek
Martin, Viola B, Unmat.	Deep Creek
Mascotte, Aslyn, Unmat.	Anaconda, Mont
Matheson, Margaret J, LA.	Seattle
Matheson, C Winfield, Grad.	Granite Bay, BC
Matthews, Agnes S, Grad.	Tacoma
Matthews, Alfred W, Grad.	Tacoma
Matthews, Gwlad, LA.	Seattle
Matthews, Peris, Unmat.	Helena, Mont
Matthews, William P, Grad.	Tacoma
Mattoon, Edith D, Grad.	Long Beach, Calif
Maxam, Elsie, LA.	Tacoma
Maxwell, Lola B, Unmat.	Victoria, BC
Maxwell, Rose, LA.	Seattle
Maydahl, Bergete, Sci.	Spokane
Mayer, Lillian S, Grad.	Seattle
Mayrond, Anita, LA.	Seattle
Medill, Alice M, LA.	Seattle
Mehner, Esther, Bus.	Bremerton
Meldinger, William, Grad.	College Place
Mendenhall, Clare, Bus.	Seattle
Mendenhall, Margaret, Educ.	Bellingham
Mennell, Estella P, Grad.	Seattle
Mercier, Ruth, Unmat.	Livingston, Mont
Merigold, Florence E, F.A.	Kallispell, Mont
Merrick, Mina M, LA.	Everett
Merrifield, Lee, LA.	Kent
Merryweather, Leonard, Grad.	Everett
Messinger, Clarence R, Grad.	Vancouver, BC
Metz, Franchon, LA.	Seattle
Meyer, Florence L, Educ.	Spokane
Meyer, Louise H, LA.	Seattle
Meyer, Rita, Grad.	Seattle
Meyer, Selma V, LA.	Grangeville, Ida
Meyers, Liv Alice, LA.	Seattle
Michael, Clifford P, Pharm.	Tacoma
Michelson, Helen A, Educ.	Kellogg, Ida
Michener, Dwight W, Grad.	Newberg, Ore
Michie, Frances, Grad.	Seattle
Mieth, Stanley T, Bus.	Cupertino, Calif
Millam, Cary H, Educ.	Poulsbo
Miles, Neal, Trans.	Beaumont, Tex
Milkwick, G Viola, Educ.	Anaconda, Mont
Miller, Carrie L, Unmat.	Seattle
Miller, Charlotte E, Grad.	Seattle
Miller, Charles J, Grad.	Seattle
Miller, Edith L, LA.	Dixon, Ill
Miller, Ethel, Grad.	Yakima
Miller, George L, Bus.	Seattle
Miller, Marianne E, LA.	Tacoma
Miller, Melvin C, Trans.	Provo, Utah
Miller, Mervyn B, Grad.	Seattle
Miller, T K, LA.	Waterville
Miller, Vivian, LA.	Vancouver
Millican, Alfred C, Grad.	Marysville
Millikin, William Earl, Grad.	Seattle
Millman, Loren H, Grad.	Seattle
Millman, Wendell, Sci.	Seattle
Mills, Mabel, LA.	Seattle
Milot, John A, Law.	Seattle
Milton, Anna J, Unmat.	Rockford
Minaker, Cecil W, Bus.	Seattle
Minch, Seth, LA.	Ablene, Kan
Miner, Eva Lee, Grad.	Tacoma
Miner, Grace, Grad.	Kettle Falls
Minnear, Fernie, Educ.	Seattle
Minnick, Nelle, Educ.	Bellingham
Minnig, Etta, Unmat.	Seattle
Minter, Laurabelle, Grad.	Tacoma
Minuth, Elsa M, Educ.	Yacolt
Mistlebauer, H C, Unmat.	Connellsville, Pa
Mitchell, Kathleen, LA.	Wheeler
Mitchell, Mary S, LA.	Wheeler
Mitchell, Perry H, Educ.	Seattle
Moawad, George M, Bus.	Kalama
Mobley, Rosamond R, Grad.	Vallejo, Calif
Moe, Anna E, Educ.	Fargo, ND
Moe, Myrtle, LA.	Seattle
Mohler, Harry, LA.	Seattle
Mohr, Jennie, Grad.	Seattle
Molletstad, Howard, LA.	Seattle
Molletstad, Marie, LA.	Seattle
Monday, Sybil, LA.	Seattle
Monroe, Beatrice H, LA.	Sioux City, Neb
Montague, Frances, LA.	Everett
Montague, Lucille, Unmat.	Everett
Montfort, Richard, Bus.	Blaine
Moore, Amy R, Sci.	Vancouver, BC
Moore, Anna R, Unmat.	Everett
Moore, Edwin H, Unmat.	Seattle
Moore, Helen, LA.	Seattle
Moore, John H, Educ.	Washougal
Moore, Mabel M, Educ.	Washougal
Moore, Margaret H, Grad.	Detroit, Mich
Moore, Russell B, Bus.	Pullman
Moran, Mrs Christine L, LA.	Seattle
More, Luther, LA.	Seattle
Morchodoff, John A, Engr.	Russia
Morgan, Frances, Grad.	Hoquiam
Morgan, Juanita, Grad.	Elgin, Ill
Morrill, Louise R, Unmat.	Seattle
Morris, Clydene, Sci.	Seattle
Morris, Ruby A, Grad.	Seattle
Morrison, Alice, Sci.	Phoenix, Ariz
Morrison, Gertrude, Sci.	Phoenix, Ariz
Morrison, Harriet, Sci.	Spokane
Morrow, Mable E, LA.	Zanesville, Ohio
Morse, Alice N, Unmat.	Kent
Morse, Annie M, Grad.	Moscow, Ida
Moseley, Crowder, Engr.	Seattle
Moseley, Evelyn A, Pharm.	Seattle
Moseley, Maud L, Grad.	Seattle
Mossford, Frances M, Grad.	Monroe
Mossing, C Lucille, Unmat.	Spearfish, SD
Mott, Francelle, Grad.	St. John
Moulton, Helen R, LA.	Seattle
Mountrop, Lena V, Grad.	Walla Walla
Moyer, Jacob, Grad.	Seattle
Mueller, Alva, LA.	Butte, Mont
Mullen, Doris G, Grad.	Seattle
Mullen, Frances K, LA.	Seattle
Mullen, Loda H, LA.	Tacoma
Mundie, Thomas F, Grad.	Seattle
Monro, Kathleen, Grad.	Seattle
Munson, Ellen C, LA.	Grandview
Murdock, Mary, LA.	Seattle
Murland, Elva, Unmat.	Tacoma
Murland, Helen A, Grad.	Tacoma
Murphy, Margaret K, Educ.	Seattle
Murphy, Marjorie H, Grad.	Edmonds

Murphy, Virgil A, LA.....Black Diamond  
 Murray, Dottie, Grad.....Yakima  
 Murray, Jane F, Educ.....Winslow  
 Murray, Jesse W, LA.....Omak  
 Murray, Ora, Unmat.....Tulally  
 Musgrove, Dorothy, Journ.....Seattle  
 Myers, Joe T, Educ.....Sunnyside  
 Myers, Mrs Marie, Unmat.....Sunnyside  
 Myhre, Ida E, Grad.....Seattle

Nagel, Mary S, LA.....Seattle  
 Nalbach, Irena L, Unmat.....Great Falls, Mt  
 Nanney, Albert M, LA.....Vancouver  
 Neal, Richard K, LA.....Seattle  
 Neal, Russell, Educ.....Seattle  
 Neale, Emery W, Grad.....Zillah  
 Neale, Mary B, Educ.....Hillsboro, Wis  
 Near, Maxine, Sci.....Seattle  
 Neeley, Alice A, Unmat.....Weiser, Ida  
 Neldert, Louis J, Grad.....Seattle  
 Nelkirk, Claire E, LA.....Seattle  
 Nelson, Earl J, Bus.....Havre, Mont  
 Nelson, Erma E, Grad.....Seattle  
 Nelson, Evelyn I, LA.....Seattle  
 Nelson, V Norma, Unmat.....St Paul, Minn  
 Nelson, Olga A, Educ.....Wenatchee  
 Nelson, Ruby L, LA.....Dows, Iowa  
 Ness, Conrad, LA.....Tacoma  
 Ness, Dorothy, Sci.....Wapato  
 Ness, Sever W, Educ.....Yakima  
 Neessly, Dorothy E, YLA.....Seattle  
 Netterblad, Gertrude, Educ.....Spokane  
 Newbury, Kirsten L, Grad.....Seattle  
 Newton, Florence E, LA.....Seattle  
 Neylon, Mary T, LA.....Olympia  
 Nichols, Walter R, Grad.....Winslow  
 Nicholson, Catherine, FA.....Spokane  
 Niederjohn, Anna M, LA.....California, Mo  
 Nilles, Kathryn B, Educ.....Seattle  
 Nillo, Marcelo V, LA.....Philippines  
 Nishimoto, James Y, Bus.....Seattle  
 Noble, Florence C, LA.....Somers, Mont  
 Nolan, Florence, Sci.....Seattle  
 Nordgaard, Ernest, Unmat.....Pocatello, Ida  
 Nordquist, Carlos G, Law.....Seattle  
 Nordquist, Elsie, LA.....Seattle  
 Norman, Evelyn M, Grad.....Seattle  
 North, Stella M, LA.....Seattle  
 Norton, Frances R, LA.....Yakima  
 Norton, Vera, Unmat.....Portland, Ore  
 Nowatzki, Claire, Educ.Iron Mountain, Mich  
 Noyes, Jeannette, Unmat.....Walla Walla  
 Nunn, Florence, Unmat.....Walla Walla  
 Nye, Margaret A, LA.....Glendive, Mont  
 Nygren, Alf J, Sci.....Snohomish  
 Nystrom, Ruth E, Educ.....Brush Prairie

Oakley, Eldora V, Grad.....Seattle  
 Oakley, June, Unmat.....Seattle  
 O'Brien, Alice, Unmat.....Butte, Mont  
 O'Brien, Elizabeth M, LA.....Seattle  
 O'Brien, Hazel B, LA.....Sequim  
 O'Brien, Monica, Sci.....Butte, Mont  
 O'Byrne, Alice S, Sci.....Elsinore, Calif  
 O'Callaghan, Ellen, FA.Bonnors Ferry, Ida  
 O'Connor, Tom E, Grad.....Mercer Island  
 Odsgaard, Leonard S, FA.....Spokane  
 O'Donnell, Mary J, Educ.....Rupert, Ida  
 Ogilvie, Edith J, Educ.....Everett  
 O'Hara, William J, Bus..... Fargo, ND  
 Okimura, Nobuo, LA.....Japan  
 O'Leary, Alice, LA.....Seattle  
 O'Leary, H Kathleen, LA.....Seattle  
 Olene, Melvin E, Unmat.....Buckley  
 Olson, Mabel H, LA.....Tacoma  
 Oliver, Egbert S, LA.....Seattle  
 Olney, Bertha R, Educ.....Seattle  
 Olson, Alice, Bus.....Seattle

Olson, Avary H, Sci.....Stevenson  
 Olson, Gladys J, FA.....Auburn  
 Olsen, Esther O, Grad.....La Center  
 Olson, Adella B, Trans.....Sunnyside  
 Olson, Irene, Educ.....Sunnyside  
 Olson, Olga M, Educ.....Port Blakely  
 Olson, Olive O, Unmat.....Story City, Ia  
 Olson, Warren E, LA.....Tacoma  
 Oman, Emma C, Sci.....Seattle  
 Orr, Alma, Unmat.....Auburn  
 Orrell, Jessie, Grad.....Seattle  
 Osborn, John L, Grad.....Corvallis, Ore  
 Osborne, Robert E, Unmat.....Elk  
 Osgood, Robert S, Grad.....Walla Walla  
 Ossmann, Helene, Unmat.....Concordia, Kan  
 Osten, Winnifred, LA.....Seattle  
 Ouren, Frederic, Sci.....Leavenworth  
 Ouren, Marian, Grad.....Leavenworth  
 Ovregaard, Knute, Grad.....Terry, Mont  
 Owens, Blodwyn W, Unmat.....Carroll, Nebr  
 Owens, Josephine, Unmat.....Bristol, Mass

Pacis, Marcelo R, Sci.....Seattle  
 Packard, S Edmund, LA.....Seattle  
 Padley, Willine J, LA.....Seattle  
 Page, Thomas N, Unmat.....Portland, Ore  
 Paine, Carol M, Grad.....Boise, Ida  
 Pallas, Ella, LA.....Mukilteo  
 Pallas, Margaretha, Educ.....Mukilteo  
 Parke, Charles G, Grad.....Bellingham  
 Parker, Agnes F, Educ.....Seattle  
 Parker, Alfred, Educ.....Fromberg, Mont  
 Parker, Fremont E, LA.....Seattle  
 Parr, Genevieve, FA.....Seattle  
 Parr, Katherine, LA.....Spokane  
 Partansky, Alexander, FA.....Russia  
 Pashley, Harry B, Grad.....Seattle  
 Patch, Esther A, Educ.....Beach  
 Paton, Harold C, Bus.....Cashmere  
 Patrick, Doris, Educ.....Seattle  
 Patten, David, Unmat.....Seattle  
 Patterson, Ambrose, FA.....Seattle  
 Patterson, Bertha P, Sci.....Seattle  
 Paulsen, Pauline A, Grad.....Hunters  
 Pears, Goldia L, LA.....Seattle  
 Pearce, Eunice, Educ.....Philomath, Ore  
 Pearsall, Deborah, Grad.....Seattle  
 Pearson, Anna C, Educ.....Spokane  
 Pearson, E Dolph, Trans.....Portland, Ore  
 Pearson, Lenora J, Bus.....Seattle  
 Pearson, William, Bus.....Spokane  
 Pease, Robert O, LA.....Seattle  
 Pecar, Alma M, Grad.....Kennewick  
 Peck, Miriam L, Unmat.New Westm'r, BC  
 Pederson, Thora, Educ.Junction City, Ore  
 Peffley, Harriette, Unmat.....Seattle  
 Peirce, Mabel G, Unmat.....Fairbault, Minn  
 Pelz, Freda, Grad.....Seattle  
 Pence, Etta, LA.....Seattle  
 Penewell, Marion, Grad.....Seattle  
 Penwell, May G, LA.....Belgrade, Mont  
 Peplow, Marion, Grad.....Pendleton, Ore  
 Percival, Dorothy L, Educ.....Seattle  
 Perdue, Edgar A, Jolrn.....Seattle  
 Perkins, Dorris E, Grad.....Seattle  
 Perkins, Georgia Y, Educ.....Seattle  
 Perkins, Theda D, LA.....Seattle  
 Perks, Alfred, Unmat.....Pe Ell  
 Perry, Alvina D, Unmat.....Port Orchard  
 Perry, Mary Agnes, Grad.....Everson  
 Pesce, Catherine F, LA.....Seattle  
 Peters, Henry W, Grad.....Tonasket  
 Peterson, Abbie, LA.....Seattle  
 Peterson, Carrie H, Gad.....Kellogg, Ida  
 Peterson, Edith, LA.....Emmett, Ida  
 Peterson, Huldah E, Unmat.....Seattle  
 Peterson, Ida G, Educ.....Marinette, Wis  
 Peterson, Inez H, Grad.....Seattle  
 Peterson, Lot C, Sci.....Renton



Peterson, Marie L, Educ.....Olalla  
 Peterson, Ole T, Grad.....Brewster  
 Pettengill, George F, Grad.....Corvallis, Ore  
 Pettigrew, Anna, Educ.....Cle Elum  
 Pettit, Henry M, Bus.....Seattle  
 Pfeiffer, Lydia, Grad.....Walla Walla  
 Pfisterer, Elsa, LA.....Seattle  
 Philippi, Harry O, Grad.....Bellingham  
 Philippi, Herbert, Educ.....Bellingham  
 Phillips, Aileen, LA.....Odessa  
 Phillips, Earl A, LA.....Seattle  
 Philpot, Pauline, LA.....Seattle  
 Pickard, Ward L, LA.....Seattle  
 Pickering, Opal R, Trans.....Honolulu  
 Pendl, Belle A, LA.....Mabton  
 Pierce, Burton B, Jr, Bus.....Seattle  
 Pierron, Richard P, LA.....Bellingham  
 Pillard, Ray A, Grad.....Dallas, Ore  
 Pineo, Eleanor W, LA.....Victoria, BC  
 Piper, Pearl F, Umat.....Seattle  
 Pitcairn, Sarah E, Trans.....Tarentum, Pa  
 Pitt, Mildred E, Grad.....Seattle  
 Pittock, Virginia, LA.....Portland, Ore  
 Platt, Anne C, Grad.....Seattle  
 Plumb, Anna C, FA.....Seattle  
 Plumb, Margaret, Grad.....Greeley, Colo  
 Pohl, Russell A, Engr.....Seattle  
 Pomeroy, Allan, Sci.....Seattle  
 Poole, Bonnie, Grad.....Seattle  
 Poole, Edward G, Grad.....Seattle  
 Poor, Elizabeth, FA.....Seattle  
 Pope, M A Bernice, Sci.....Vancouver, BC  
 Porsch, Rhyndhart A, Bus.....Roy  
 Portmann, Frieda, Umat.....Tacoma  
 Portwood, Elita D, Umat.....Monmouth, Ore  
 Poslovsky, Anatole, Engr.....Shanghai, China  
 Potter, Avis, LA.....Everett  
 Potter, Charles, Grad.....Seattle  
 Potter, Florence O, Educ.....Almira  
 Potter, Lois C, Sci.....Bremerton  
 Potter, Ruth A, Sci.....Seattle  
 Powell, Mary D, Grad.....Selah  
 Poy, William J, Sci.....Portland, Ore  
 Poyasky, Tyne C, Grad.....Astoria, Ore  
 Pratt, L, Laurence, Grad.....Forest Grove, Ore  
 Pratt, Hiram E, Grad.....Eatonville  
 Pray, Jean H, Umat.....Wallace, Ida  
 Prentice, Dudley, Bus.....Auburn  
 Pretlow, Clotilde, Grad.....Central City, Neb  
 Price, M May, LA.....Seattle  
 Prim, John E, Law.....Seattle  
 Pringle, Emma B, LA.....Port Townsend  
 Puckett, Ethel E, Umat.....Vancouver  
 Fugh, Anne C, Grad.....Seattle  
 Fugsley, Frances, Sci.....Yelm  
 Fugsley, Harriet M, Grad.....Seattle  
 Purvine, Margaret M, LA.....Portland, Ore  
 Putnam, Gertrude E, LA.....Seattle  
 Putnam, Norman M, Umat.....La Crosse

Queen, John C, Pharm.....Winfield, Kan  
 Quigley, Helen L, Educ.....Great Falls, Mont  
 Quigley, Margaret H, Educ.....Butte, Mont  
 Quigley, Marion L, LA.....Seattle  
 Quigley, Mary J, Sci.....Seattle  
 Quinlivan, Margaret, Umat.....Denver, Colo  
 Quinn, Ellen G, LA.....Seattle

Raasch, Leonard O, Grad.....Kent  
 Rae, Doris, Law.....Seattle  
 Rae, Helen R, FA.....Caldwell, Ida  
 Rae, John J, Umat.....Caldwell, Ida  
 Raine, Margaret M, Grad.....Seattle  
 Raitt, Janet, Sci.....So Pasadena, Calif  
 Ralls, Roberta, LA.....Seattle  
 Ramm, Rorothy, Educ.....Seattle  
 Ramsay, Ruth R, Sci.....Humptulps  
 Ramstad, Andrew W, Grad.....Parkland

Ramstad, Lydia, Sci.....Parkland  
 Randall, Arthur, Bus.....Seattle  
 Randall, Helen M, Sci.....Seattle  
 Randall, Sara R, Umat.....Dayton, O  
 Randall, Wesley M, LA.....Seattle  
 Rankin, William M, Umat.....Roosevelt  
 Rapp, Marie E, Umat.....Hamilton, O  
 Rasmussen, George V, Grad.....Seattle  
 Rathbun, Anna L, Educ.....Seattle  
 Ray, Ada L, Educ.....Sunnyside  
 Raymond, Ethel G, Grad.....Seattle  
 Reed, Donald L, Engr.....Centralia  
 Reed, Elizabeth Margaret, Grad.....Seattle  
 Reed, Jennie Mabel, Grad.....Tacoma  
 Reed, Marion, LA.....Nehalem, Ore  
 Reed, Ralph Joseph, Educ.....Seattle  
 Reeder, Thomas A, FA.....Seattle  
 Reeder, Verna T, Educ.....Seattle  
 Reese, Marie, LA.....Startup  
 Rees, Margaret, LA.....Helena, Mont  
 Reeves, Joseph Austin, Grad.....Mt Vernon  
 Reeves, Lester L, Educ.....Tacoma  
 Rehbock, R H, Grad.....Yakima  
 Reichle, Paul A, Sci.....Butte, Mont  
 Reid, Patrick V, LA.....Butte, Mont  
 Reilly, Clare Florin, BA.....Hartford, Conn  
 Reinking, Grace W, LA.....Kellogg, Ida  
 Reiter, Bernard, Law.....Seattle  
 Rendrick, R H, Grad.....Seattle  
 Reynolds, Viola B, Grad.....Scotia, NY  
 Rhodes, Leonard, Grad.....Seattle  
 Rhodes, Leonore, Umat.....Vancouver  
 Rhodes, May S, Grad.....Spokane  
 Rice, Anna, Educ.....Ponca City, Okla  
 Rice, Maud Ruth, Grad.....Eagle, Ida  
 Rich, Anell J, For.....Appleton, Wis  
 Richardson, Barbara, Umat.....Seattle  
 Richardson, Y, G, LA.....Yakima  
 Richford, M A, Eng.....San Francisco, Calif  
 Richter, Leo C, Pharm.....Puyallup  
 Rickerts, Helen Louise, LA.....Butte, Mont  
 Rintala, Aurora, LA.....Blickley  
 Riss, Arthur H, Grad.....Seattle  
 Riss, Eleanor G, FA.....Seattle  
 Rivers, Ralph J, LA.....Fairbanks, Alas  
 Roach, Russell, Bus.....Seattle  
 Roaney, Marland B, Grad.....Seattle  
 Roark, Anna, LA.....Ennis, Mont  
 Robbins, Nadine I, Jour.....Seattle  
 Robe, Cecil F, Grad.....Everett  
 Roberson, Lula E, Umat.....Seattle  
 Roberts, Bess, LA.....Hurline  
 Roberts, Frances M, Umat.....Omaha, Nebr  
 Roberts, Ina S, LA.....Butte, Mont  
 Robertson, Dana A, LA.....Seattle  
 Robertson, Frank M, Sci.....Zillah  
 Robinson, Clyde A, Law.....Everett  
 Robinson, Edward C, Educ.....Bellingham  
 Robinson, Eliza, Grad.....Colfax  
 Robinson, Jenny C, Umat.....Butte, Mont  
 Robinson, Una, Grad.....Edmonds  
 Robison, B B, Educ.....Bellingham  
 Robison, Lloyd Leslie, Umat.....Seattle  
 Rockhill, Luella, Umat.....Dayton  
 Rodell, Lucretia, Umat.....Santa Monica, Cal  
 Rogers, Henry E, Grad.....Stevenson  
 Rogozina, Raisa A, LA.....Harbin, China  
 Rohne, Lyle C, LA.....Seattle  
 Rohowits, Edythe, LA.....Seattle  
 Roll, Dorothy Bates, Grad.....Shelton  
 Rolsheim, Rachel M, Umat.....Attalia  
 Roney, Ward Wm, Law.....Seattle  
 Roop, Edna Chloe, Umat.....Bluffton, Ind  
 Rose, Frances D, LA.....Fairmont, W Va  
 Rose, Rena, Umat.....Norway, Ia  
 Rosenbaum, Adrian, FA.....Seattle  
 Rosenbaum, Nathan J, Bus.....Seattle  
 Ross, Lemuel, Educ.....Woodland  
 Roundbush, Elizabeth, Grad.....Longview  
 Rouner, Thomas J, Engr.....Smith Center, Kan

Rousch, Minnie A, Educ.....Palestine, Ill  
 Rousseau, Dorothea G, Educ.....Spokane  
 Rousseau, Imogene, Grad.Wis Rapids, Wis  
 Rovig, Helen, LA.....Seattle  
 Rowe, Abbie E, Educ.....Fremont, Nebr  
 Rowlands, Hobard E, Grad.....Spokane  
 Rowlee, Frank M, Grad.....Seahurst  
 Royster, Helen, LA.....Seattle  
 Ruddy, Gladys Z, LA.....Butte, Mont  
 Rude, Hazel, Educ.....Seattle  
 Rudolph, A George, Educ.....Dillon, Mont  
 Rundlett, Clara Edith, Educ.Cromwell, Ia  
 Runyon, Esther D, Unmat.....Northport  
 Runyon, Lloyd J, Unmat.....Northport  
 Russ, Louise, Educ.....Tacoma  
 Russel, Charlotte, Unmat.....Butte, Mont  
 Russel, France F, LA.....Seattle  
 Russell, Beulah, Grad.....Seattle  
 Russell, Catherine A, LA.....Seattle  
 Russell, J B, Educ.....Orting  
 Russell, Lelia M, Educ.....Tacoma  
 Russell, Mae Eleese, Grad.....Tacoma  
 Rustia, Manuel, Grad.....Phillippines  
 Rutledge, Ralph M, Grad.....Seattle  
 Rutter, Beatrice, Educ.....Spokane  
 Ruzicki, Henry J, Grad.....Lacey  
 Ryan, Benj F, Bus.....Mukilteo  
 Ryan, Helen, Grad.....Seattle

Sakuma, Tamiko, Sci.....Tokyo, Japan  
 Samzelius, Alpha, FA.....Monroe  
 Sanchez, Isabelo G, Sci.....Phillippines  
 Sanden, Arthur G, Grad.....Bellingham  
 Sanders, Mabel Durham, Grad.....Seattle  
 Sandner, Lucile, Sci.....Tacoma  
 Sangster, Norman, Grad.....Vancouver, BC  
 Sartoris, Modelyn, Grad.....Enumclaw  
 Sater, Gertrude Paula, Grad.....Seattle  
 Sather, Edgar W, Bus.....Seattle  
 Sather, Esther Ruth, Unmat.....Everett  
 Savage, Anne, Unmat.....Seattle  
 Savage, Margaret E, Sci.....Tacoma  
 Sawyer, Dalza, LA.....Tacoma  
 Scarbrough, Dorothee, LA.....Olympia  
 Schaefer, Louise, Educ.....Seattle  
 Schaeffer, Claude E, LA.....Seattle  
 Schaffer, Norwood, Sci.....Seattle  
 Schatz, Isadore, Sci.....Portland, Ore  
 Schlipplin, Louise, LA.....Seattle  
 Schlader, Louise, LA.....Nespece, Ida  
 Schlauch, Gertrude, Grad.....Odessa  
 Schlauch, Emmaline, LA.....Sumner  
 Schlauch, Gistav Herman, Grad.Valleyford  
 Schiele, Louis Martin, Grad.Dillon, Mont  
 Schierman, Mary Educ.....Owatonna, Minn  
 Schmid, Byron C, Educ.....Seattle  
 Schmidt, Cecilia H, LA.....Spokane  
 Schoess, Jannita, Unmat.Rodgersburg, Mont  
 Schofield, Marguerite, Grad.....Seattle  
 Scholtz, Erma, LA.....Seattle  
 Schwitzer, Lorena M, FA.....Edwall  
 Scott, Geraldine E, LA.....Spokane  
 Scott, Hilda I, Sci.....Seattle  
 Scoville, Ray R, Eng.....Seattle  
 Sealls, Rachel J, Grad.....Seattle  
 Searls, Helen E, LA.....Seattle  
 Sedgwich, Bessie, Unmat.....Everett  
 Selple, Marjorie, Trans.....Portland, Ore  
 Selde, Frances, Educ.....Garfield  
 Sell, Myrtle May.....Seattle  
 Sellars, Evelyn, Unmat.....Spokane  
 Semple, Julia, Educ.....Britton, SD  
 Sey, Martha, Sci.....Douglas, Alas  
 Seymour, Glen L, Grad.....Brenerton  
 Shaffner, Mary M, Grad.....Tacoma  
 Shank, Charles H, Grad.....Seattle  
 Shannon, Elizabeth Ann, LA.....Seattle  
 Sharnbroich, Mildred, LA.....Port Angeles  
 Sharp, Mary Corts, Grad.....Seattle

Shaw, Anna Belle, Grad.....Seattle  
 Shaw, Gretchen, Grad.....Seattle  
 Shaw, Richard, Journ.San Francisco, Calif  
 Shaw, Virgil F, LA.....Seattle  
 Shen, Thomas F, Grad.....Corvallis, Ore  
 Sheehan, Mary Madeline, Grad.....Seattle  
 Sheehan, Paul V, Journ.....Everett  
 Sheets, Lora C, LA.San Francisco, Calif  
 Sheets, Ruth E, LA.....Seattle  
 Sheldon, Dorothy, LA.....Grants Pass, Ore  
 Shephard, Elizabeth Mary, Sci.....enatchee  
 Shephard, Kathryn, LA.....Seattle  
 Shepherd, W Mentry, Grad.....Bellingham  
 Sherrill, Mildred, Sci.....Tacoma  
 Sherwood, Ruth, Unmat.....Napavine  
 Shidler, Edwin W, Grad.....Seattle  
 Shields, Louise F, Unmat.....Portland  
 Shields, Roy S, Grad.New Westm't, BC  
 Shipley, Dorothy, LA.....Seattle  
 Shonk, Grace B, Unmat.....Dayton, Ohio  
 Showalter, Lillian, LA.Youngstown, Ohio  
 Shrader, Grace Greenwood, Educ.....Yakima  
 Shultz, Celia B, Grad.....Cosmopolis  
 Siderfin, Gwen, LA.....Butte, Mont  
 Sill, Florence E, Unmat.....Spokane  
 Silvers, Josephine, Grad.....Mt Vernon  
 Simas, Frances M, Grad.....Sprague  
 Simpson, Donald, Educ.....Seattle  
 Simpson, Grace H, Unmat.....Sparta, Wis  
 Simpson, Lurline, Grad.....Seattle  
 Simpson, Margaret, Grad.....Aberdeen  
 Simpson, Opal C, Unmat.....Honolulu, TH  
 Sister Albertina, LA.....So Tacoma  
 Sister Mary Aloysia, Unmat.....Seattle  
 Sister Mary Austin, Educ.....Seattle  
 Sister Mary Vera Buss, FA.....Seattle  
 Sister Mary Dolores, LA.....Tacoma  
 Sister M Lamberta Fasbender, FA.Seattle  
 Sister M Francesca Zoellar, FA.....Spokane  
 Sister Mary Paul Hoehn, Unmat.....Seattle  
 Sister Aimee Peters, LA.....Seattle  
 Sister Ducey Benigna, Unmat.....So Tacoma  
 Sister Ceciline Doundelinger, FA.....Colfax  
 Sister Elizabeth Clare, Educ.....Spokane  
 Sister Ferdinand Dieckhaus, Unmat.Seattle  
 Sister Gabriel Ryan, Unmat.....Seattle  
 Sister Livatine Gerosera, Unmat.....Seattle  
 Sister Mary Ambrosia, LA.....Tacoma  
 Sister Mary Alexander, Grad.....Seattle  
 Sister Mary Alicia, Grad.....Seattle  
 Sister Mary Aquin, FA.....Tacoma  
 Sister Mary Benilda, Educ.....Oswego, Ore  
 Sister M Clementia, LA.....Seattle  
 Sister, Mary Clementine, Educ.....Seattle  
 Sister Mary DePaul, LA.....Seattle  
 Sister Mary Dominic, Educ.....Tacoma  
 Sister Mary Edwardine, LA.....Tacoma  
 Sister M Eulalia Teresa, Educ.....Seattle  
 Sister Mary Floretta, Educ.....Seattle  
 Sister Mary Gabriel, LA.....Seattle  
 Sister Mary Joan, LA.....Seattle  
 Sister Mary Joseph, FA.....Tacoma  
 Sister Mary Josephine, LA.....Tacoma  
 Sister Mary Leonella, LA.....Seattle  
 Sister M Loretta Gately, Unmat.....Seattle  
 Sister Mary Louise, Grad.....Tacoma  
 Sister Mary Lourдина, LA.....Bellingham  
 Sister Mary Margaret, Grad.....Tacoma  
 Sister M Margaret of Dominic, Ed.Seattle  
 Sister Mary Michael, Educ.....Tacoma  
 Sister M Regina Relaney, LA.....Tacoma  
 Sister Mary Rosena, FA.....Tacoma  
 Sister M Theresa, Grad.....Portland, Ore  
 Sister M Veronica, Educ.....Seattle  
 Sister M Veronica of Milan, Educ.Seattle  
 Sister Rose De Lima, Educ.....Seattle  
 Sjaanstad, Anna Olivia, Educ.....Tagus, ND  
 Skeen, Roy L, Grad.....Ione, Ore  
 Skeen, Ruby Rosenkranz, Grad.....Colfax  
 Skibness, Marie Bertine, Educ.....Tacoma

Slaughter, W D, Grad.....Spokane  
 Slawson, Charles S, BA.....Spokane  
 Sleeder, Ruth, FA.....Seattle  
 Sloan, Wayland C, BA.....Seattle  
 Smaby, Marie H, Sci.....Ocean Falls, BC  
 Smaby, Sylvia H, Sci.....Ocean Falls, BC  
 Smalley, Thomas E, Educ.....Roundup, Mont  
 Smith, Benjamin Joseph, LA.....Seattle  
 Smith, Brenda, Unmat.....Alberni, BC  
 Smith, Charlotte B, LA.....Wenatchee  
 Smith, Cora Lynn, Unmat.....Okanogan  
 Smith, Dorothy Marie, BA.....Wenatchee  
 Smith, Edith Ralston, Educ.....Tacoma  
 Smith, Elizabeth, Unmat.....Santa Maria, Calif  
 Smith, Esther, Unmat.....Cedar Rapids, Nebr  
 Smith, Florence C, LA.....Seattle  
 Smith, Frances H, Unmat.....Seattle  
 Smith, Ferguson Grant, LA.....Regina, Sask  
 Smith, George Ben, Grad.....Seattle  
 Smith, George M, Grad.....Seattle  
 Smith, Helen E, Unmat.....Elmira, NY  
 Smith, Herndon, Grad.....Seattle  
 Smith, Lila, Educ.....Spokane  
 Smith, Lillian L, Unmat.....Vancouver, BC  
 Smith, Lois M, Unmat.....Alameda, Canada  
 Smith, Margaret P, Trans.....Hollywood, Calif  
 Smith, May Belle, Educ.....Seattle  
 Smith, Rosa L, Grad.....Asotin, Wash  
 Smith, Thomas S, Educ.....Cheney, Wash  
 Smith, Tremaine J, Law.....Seattle  
 Smith, W Virgil, Grad.....Seattle  
 Smith, M C, Unmat.....San Francisco, Calif  
 Smith, Waters Caroline, Unmat.....Edmonds  
 Smith, Zula L, LA.....Seattle  
 Snider, Gertrude Grace, LA.....Seattle  
 Solberg, Elizabeth, Grad.....Walla Walla  
 Somers, Ernest, BA.....Snoqualmie  
 Sorenson, Florence, LA.....Seattle  
 Sotto, Eugenia J, LA.....Manila, PI  
 Southard, Edna Lutz, LA.....Seattle  
 Spear, Eveline, LA.....Nampa, Ida  
 Spencer, Florence, Educ.....Bozill, Ida  
 Sperlin, Otis B, Grad.....Rolling Bay  
 Spooner, Othilia, Sci.....Spokane  
 Sprague, Grace R, LA.....Colville  
 Sprague, Harry L, Bus.....Colville  
 Stamm, Charles Henry, Sci.....Seattle  
 Stapleton, Sally, LA.....Duvall  
 Stark, Ada V, LA.....Portland, Ore  
 Starr, Geraldine, Journa.....Seattle  
 Staten, Francis A, Grad.....Seattle  
 Steele, Amy Rowland, Grad.....Boise, Ida  
 Steele, Fanny C, Unmat.....Cherokee, Ia  
 Steele, Susan E, Educ.....Sedro-Woolley  
 Steeves, Blanchard P, Gad.....Seattle  
 Steeves, Olive Neata, Grad.....Seattle  
 Steinbach, Marvin D, Bus.....Wenatchee  
 Steinhauer, Mildred, LA.....Seattle  
 Stenberg, Betsy, Pauline, LA.....Bellingham  
 Steinman, Rose G, LA.....Seattle  
 Steinmetz, Harry C, Grad.....Glendale, Calif  
 Stenger, Margaret Mary, Educ.....Morris, Minn  
 Stensland, Bertha, Unmat.....Redmond  
 Stephenson, Ruth, LA.....Seattle  
 Sterling, Edna L, Grad.....Seattle  
 Stevens, Carolyn A, Educ.....Seattle  
 Stevens, Catherine, LA.....Seattle  
 Stevens, Evelyn, Educ.....Sidney, Mont  
 Stevens, Francis E, LA.....Pasadena, Calif  
 Stevens, Joseph R, Engr.....Tacoma  
 Stevens, Theodore G, Grad.....Langley  
 Stevenson, Davida F, Unmat.....Stafford, Kan  
 Stewart, Edgar I, Grad.....Granite Falls  
 Stewart, Margaret, LA.....Mt Vernon  
 Stewart, Ruth, LA.....Seattle  
 Stickels, Carrie, Sci.....Seattle  
 Stiffler, Marden, LA.....Seattle  
 Stillwell, Edward M, Grad.....Seattle  
 Stine, Edna G, Educ.....Seattle  
 Stinson, Harry L, LA.....Seattle

Stock, Leon L, Grad.....Seattle  
 Stombaugh, John W, For.....Vancouver  
 Stockwell, Richard, Bus.....Aberdeen  
 Stone, Bessie H, LA.....Denton, Mont  
 Stone, Ethel Viola, Educ.....Thornton  
 Stone, Lucia May, Educ.....Seattle  
 Stone, Myrtle M, Grrad.....Chevelah  
 Stone, Nellie C, LA.....Spokane  
 Stonehouse, Edgar I, Bus.....Sumas  
 Stoner, Bertha A, LA.....Auburn  
 Stoner, June, Educ.....Spokane  
 Storey, Guinevere, Sci.....Kirkland  
 Stover, Leona, Sci.....Seattle  
 Stowe, Joyce A, LA.....McIntosh, Minn  
 Stowell, Ernest P, Educ.....Seattle  
 Straight, Robert, Educ.....Vancouver, BC  
 Strain, Isabella, Unmat.....Seattle  
 Strain, Kenneth, BA.....Seattle  
 Stram, Ruth M, LA.....Goldendale  
 Strand, Sophie, FA.....Seattle  
 Stratton, Irving Ross, Law.....Seattle  
 Strick, Burton B, Grad.....Reedley, Calif  
 Strong, Virginia, Unmat.....Seattle  
 Stuckey, Magdalena, Grad.....Spokane  
 Stybor, Winifred M, LA.....Seattle  
 Sugimachi, Yaemitsu, LA.....Seattle  
 Sullivan, Frankie Belle, Educ.....Seattle  
 Summers, Marian A, LA.....Anacortes  
 Sundeen, Helen, Educ.....Mt Vernon  
 Sundquist, Ida Elvirra, Sci.....Mt Vernon  
 Sunnell, Bertha, Educ.....Mt Vernon  
 Susman, Ruth Pauline, Grrad.....Potland, Ore  
 Sutherland, Alice Wood, LA.....Seattle  
 Sutherland, Wm James, LA.....Tacoma  
 Sutton, Chloe, Educ.....Port Orchard  
 Swan, Howard L, Grad.....Caldwell, Ida  
 Swan, Nora J, LA.....Mt Vernon  
 Swanson, Clarence W, Bus.....Seattle  
 Swanson, Esther, Unmat.....Sumas  
 Swanson, Myrtle, LA.....Troy, Mont  
 Swartout, Ruth, Educ.....Seattle  
 Swartz, Fanny, Sci.....Seattle  
 Sweeney, Laura A, Grrad.....Poulsbo  
 Swenson, Roy F, LA.....Seattle  
 Symons, Arthur, FA.....Shanghai, China

Tanke, Yeteve E, LA.....Seattle  
 Tai, James E, LA.....Changchowfu, China  
 Tainter, Frances, Sci.....DuPont  
 Takahashi, Yoshiomi, LA.....Pinka, Japan  
 Talbott, Mary, Sci.....Seattle  
 Tallman, Bertha F, LA.....Bellingham  
 Tank Sik Pul, Bus.....Canton, China  
 Tanner, Jesse A, Grrad.....Spokane  
 Taylor, Chester A, Educ.....Seattle  
 Taylor, Don C, Grad.....Seattle  
 Taylor, Edith B, Unmat.....Tacoma  
 Taylor, S Fisher, LA.....Seattle  
 Teng, Chien-Fel, Unmat.....Peking, China  
 Tennyson, Florence L, LA.....Mayville, ND  
 Ternahan, Leslie L, Grad.....Boise, Ida  
 Terrell, Horace C, Unmat.....Newberg, Ore  
 Terry, Miriam, FA.....Seattle  
 Tewinkel, Joseph M, Grad.....Spokane  
 Tharp, Elizabeth L, Educ.....Seattle  
 Thiry, Paul, FA.....Seattle  
 Thomas, Anna May.....Tacoma  
 Thomas, Arden Edgar, LA.....Seattle  
 Thomas, George Wm, FA.....Seattle  
 Thomas, Letty K, LA.....Seattle  
 Thomas, Roscoe G, Grrad.....Seattle  
 Thomle, Kristine, Grad.....Seattle  
 Thompson, Eliza C, Unmat.....Everett  
 Thompson, Earl G, Sci.....Seattle  
 Thompson, Ethel Marion, Educ.....Everett  
 Thompson, Irene, Grad.....Everett  
 Thompson, June Etta, Unmat.....Fruita, Colo  
 Thompson, Margaret, LA.....Seattle  
 Thompson, Randall, LA.....Seattle

Thomson, Martha Elizabeth, Educ., Renton  
 Thorsett, Henry L., Unmat., Seattle  
 Thorsteinson, Elsa, Unmat., Point Roberts  
 Thrun, Beatrice Dorothy, Educ., Seattle  
 Thune, Alta L., Educ., Ada, Minn.  
 Tichenor, Helen S., Grad., Bozeman, Mont.  
 Till, Ethel, Unmat., Stockdale, BC  
 Tilton, K. Elwood, Grad., Seattle  
 Timbers, Howard B., Grad., Seattle  
 Todd, Florence R., Grad., Tacoma  
 Todd, Seldon Page, Engr., Seattle  
 Tokuda, Tomi M., Educ., Bellingham  
 Tolbert, Leona, Unmat., Seattle  
 Tolch, Kathleen, Sci., Bellingham  
 Tolonen, Kate, Sci., Astoria, Ore.  
 Tomita, Masajiro, Bus., Seattle  
 Toner, Martin E., LA., Lacey  
 Too, Che Pin, LA., Java  
 Torrence, C E., LA., Seattle  
 Tovey, Michael A., LA., Deer Lodge, Mont.  
 Towner, Earl M., Grad., Auburn  
 Townsend, Blanche, Unmat., Kansas City, Mo.  
 Trathen, Sidney P., Grad., Seattle  
 Trimble, Webb W., LA., Seattle  
 Tripp, Irene, Grad., Northfield, Minn.  
 Trudeau, Elizabeth C., LA., Seattle  
 Trumbull, Addie J., Unmat., Spokane  
 Trunkay, Mary F., Educ., Tacoma  
 Tuan, Chi Ta, Trans., Peking, China  
 Tucker, Gwendolyn, Unmat., Point Roberts  
 Tucker, Roy F., Educ., Seattle  
 Tuell, Anna, Grad., Tacoma  
 Tustall, Don M., LA., Kalama  
 Tupper, Josephine, Unmat., Seattle  
 Turnbull, John S., LA., Skykomish  
 Turner, Cecilia, Grad., Everett  
 Turner, Clara M., Sci., Seattle  
 Turner, Lloyd E., Educ., Chehalis  
 Turner, Lucille M., Grad., Seattle  
 Turner, Naomi, Sci., Seattle  
 Turner, Ruth McKenney, Bus., Seattle

Ude, William W., LA., Spokane  
 Uffess, Jennette S., Unmat., Ripon, Calif.  
 Uhlmann, Freda, FA., Seattle  
 Ulvestad, Lars A., Bus., Seattle  
 Umbarger, Elizabeth L., LA., Seattle  
 Underhill, Walter M., Grad., White Bluffs  
 Uppcraft, Winfield S., Grad., Seattle  
 Upham, Florence, Sci., Yakima  
 Ura, Jutaro, LA., Osaka, Japan  
 Uran, Lucile E., LA., Snohomish  
 Ushakoff, Demetry D., Bus., Orel, Russia

Valdez, Maria, LA., Philippines  
 Van Amerongen, Wm., LA., De Land, Fla.  
 Vandivort, Mary H., LA., Seattle  
 Van Duser, Florence B., Educ., Seattle  
 Van Eman, Clarice L., Unmat., Bellingham  
 Van Horn, Elizabeth, Educ., Seattle  
 Van Horn, Esther, Grad., Seattle  
 Van Vleet, Cecil S., Grad., Rainier  
 Varney, Adah M., Educ., Olympia  
 Vasilatos, C. Maxine, Unmat., San Francisco  
 Vaughan, Frances C., FA., Bellingham  
 Veldee, R. Marie, LA., Tacoma  
 Vermillion, Ina, LA., Spokane  
 Vernon, Eleanor E., Grad., Seattle  
 Vesofa, Arnie, LA., Douglas, Alaska  
 Vestal, Marie, Grad., Snohomish  
 Vetting, Ida F., LA., Seattle  
 Vicle, Abigail S., Unmat., Olalla  
 Vining, Maurice N., Bus., Seattle  
 Virtue, Jessie H., Grad., Longview  
 Vocks, Forrest, Grad., Seattle  
 Voelker, Helen O., LA., Spring Valley  
 Voss, Mabel A., Sci., Eau Claire, Wis.

Wachter, Virginia, LA., Texarkana, Tex.  
 Wade, Marie, Grad., Portland, Ore.  
 Wahl, Leonora M., LA., Seattle  
 Wait, W. T., Grad., Seattle  
 Walker, Alfred F., Bus., Spokane  
 Walker, E. Clyde, Unmat., Waterville  
 Walker, Horace E., Educ., Tacoma  
 Walker, Margery, LA., Shelton  
 Wallace, Allan R., Grad., Seattle  
 Wallace, Fraser M., Grad., Vancouver, BC  
 Wallace, Glenn, LA., Star, Idaho  
 Wallace, W. W., Unmat., Sacramento, Calif.  
 Walsh, Mary Louise, Sci., Tacoma  
 Walter, Gertrude, LA., Seattle  
 Walther, Arthur O., Grad., Sunnyside  
 Waltz, Lillian H., Unmat., Seattle  
 Wang, Ruth, Grad., Seattle  
 Wang, Shu, Trans., Peking, China  
 Wann, Arva W., Grad., Enumclaw  
 Warburton, Ruth E., LA., Deer Lodge, Mont.  
 Ware, Janet M., Grad., Kirkland  
 Ware, Jeannette, Sci., Seattle  
 Warner, Genevieve, Grad., Medical Lake  
 Warner, Wilma, Sci., Medical Lake  
 Wasson, Josephine, Unmat., Ellensburg  
 Waters, Caroline S., Unmat., Edmonds  
 Watkins, Claude C., Unmat., Aberdeen  
 Watkins, Harry C., Trans., Hoquiam  
 Watkins, Ina-Ree, Educ., Seattle  
 Watkins, Minnie J., Educ., Seattle  
 Watson, Anna E., LA., Seattle  
 Watson, Charles H., Grad., Seattle  
 Watt, Elsie, Grad., Seattle  
 Waxman, Rebecca D., Unmat., Seattle  
 Wayland, Evelyn S., Bus., Seattle  
 Weaver, Donald K., LA., Seattle  
 Weaver, Gusie S., FA., Seattle  
 Webb, N. Frances, LA., Seattle  
 Webb, Myrtle, LA., Big Timber, Mont.  
 Webster, Carrie A., Unmat., Minot, ND  
 Webster, Donald H., LA., Valleyford  
 Webster, Elmer C., Educ., Seattle  
 Webster, Florence D., Educ., Clarkston  
 Webster, Mary E., Grad., Clarkston  
 Wedeberg, Silvert M., Grad., Tacoma  
 Weiermuller, Louise, Grad., Seattle  
 Weir, Mary, LA., Tacoma  
 Weinzirl, Louise, Sci., Seattle  
 Weisgerber, Clara M., LA., Harrington  
 Welsman, Frances, Educ., Spokane  
 Welsman, Sara E., Educ., Spokane  
 Weldon, Frances, Unmat., Butte, Mont.  
 Wells, Arthur L., LA., Guthrie, Okla.  
 Wernett, Myrtle, FA., Pasco  
 West, Alice, Bus., Banners, Elk, NC  
 West, Gladys, Educ., Leavenworth  
 West, Lucile, Sci., Seattle  
 Westall, Albert J., Educ., Randle  
 Westall, Vera A., Unmat., Randle  
 Westberg, Alfred J., Law., Seattle  
 Westberg, Alma E., Grad., Seattle  
 Westervelt, Howard W., Grad., Seattle  
 Wetherell, Ernest, LA., Seattle  
 Weyer, Dell J., LA., Wallace, Ida  
 Weymouth, Faye C., Educ., Seattle  
 Whaley, M. Ballard, Educ., Colfax  
 Whalley, Theodosia, LA., Pateros  
 Wheeler, Chetta M., LA., Petersburg, Alas.  
 Whillans, Anna E., Educ., Everett  
 Whillans, Ellen, Educ., Everett  
 Whitcomb, Alice E., Grad., Seattle  
 Whitcombe, Dorothy, Sci., Seattle  
 White, Bertha P., Grad., Centralia  
 White, Chester W., FA., Seattle  
 White, Ethel V., Sci., Almira  
 White, Frances C., LA., Seattle  
 White, Helen K., LA., Seattle  
 White, Irene, Educ., Wallace, Ida  
 White, Mabel N., Educ., Everett  
 White, Myrtle P., Grad., Seattle

White, Wilma J, Trans. Cottage Grove, Ore  
 Whitehead, Virgil, Grad.....Cathlamet  
 Whitehouse, Vera M, Educ.....Buckley  
 Whitfield, Isabelle E, LA.....Seattle  
 Whitford, Richard W, Grad.....Kirkland  
 Whiteside, Charles J, Unmat.....Spokane  
 Whitlock, Victor J, Bus.....St Paul, Minn  
 Whitman, Daniel S, Grad. Ohls Orchards  
 Whitman, Ernest Avar, Grad.....Barton  
 Whitmire, Laura G, Unmat.....Seattle  
 Whitmore, Doris G, Grad.....Buckley  
 Whitmore, Maude, Sci.....Buckley  
 Whitmer, Chester, LA.....Seattle  
 Whittaker, Jack, Educ.....Bryn Mawr  
 Wiggins, Julia J, FA.....Cooper, Ia  
 Wilcox, Birt P, Grad.....Seattle  
 Wilcox, Elizabeth S, Unmat. Clarendon, Va  
 Wilcox, Grace Z, FA.....Seattle  
 Wiley, Frances E, Grad.....Seattle  
 Wiley, Ruth M, LA.....Portland, Ore  
 Wilkinson, Madge, Grad.....Seattle  
 Will, Edith M, LA.....La Corte, Ind  
 Willard, Daniel, Trans.....St Paul, Minn  
 Williams, Albert A, Trans.....Milton, Ore  
 Williams, Anne, Unmat.....Nampa, Ida  
 Williams, Clara D, Sci.....Tacoma  
 Williams, Gerald, LA.....Seattle  
 Williams, Jessie E, FA.....Seattle  
 Williams, Leila L, Unmat.....Milton, Ore  
 Williams, Leonard J, Bus.....Ebensville, Pa  
 Williams, Mentor L, Grad. Miles City, Mont  
 Williams, Theresa M, FA.....Seattle  
 Williamson, Florence, Unmat. Vancouver, BC  
 Willigar, Mertie, Sci.....Puyallup  
 Wilson, S Berta, Grad.....Seattle  
 Wilson, Clotilde, Grad.....Seattle  
 Wilson, Ellen, Unmat.....Fort Union, Mont  
 Wilson, Emma J, Grad.....Othello  
 Wilson, Leslie E, Grad.....Seattle  
 Wilson, Lucile H, Grad.....Hoquiam  
 Wilson, Mazie A, LA.....Seattle  
 Wilson, Wendell, LA.....Yakima  
 Wilson, William, Grad...Great Falls, Mont  
 Winans, Mildred, Unmat...Livingston, Mont  
 Windus, Wallace, Grad.....Ronan, Mont  
 Winegar, Roger M, LA.....Seattle  
 Wintersteen, Queenie H, LA.....Stellacoom  
 Winther, Oddvar, LA.....Seattle  
 Wipf, Lillian D, Unmat.....Freeman, SD  
 Wisdom, Edith F, FA.....Tacoma  
 Withrow, Faye, Grad.....Seattle  
 Woerner, Inez E, LA.....Boise, Ida  
 Wolden, Irene, FA.....Butte, Mont  
 Wolfe, Katherine, Grad.....Seattle  
 Wolff, Katherine C, Grad.....Tacoma  
 Wolf, Thelma B, Bus.....Seattle  
 Wolter, Armide, LA.....Seattle  
 Wolter, Lucille, LA.....Baker, Mont  
 Wong, K Hock, Engr.....Seattle  
 Wong, James M, Bus.....Sacramento, Calif  
 Wong, Violet, Pharm.....Vancouver, BC

Wong, Wah Chin, LA.....Canton, China  
 Wonsettler, Erle E, Unmat.....Tacoma  
 Wook, Alma J, Unmat.....Cloquet, Minn  
 Wood, Agnes J, Grad.....Granite Falls  
 Wood, Aida, Unmat. San Francisco, Calif  
 Wood, Asa A, Grad.....Libbey, Mont  
 Wood, Dinsmore, Grad.....Alton, Ill  
 Wood, Esther Mary, Educ.....Seattle  
 Wood, Florence, Grad.....Meadowdale  
 Wood, Hazel F, Educ.....Seattle  
 Wood, Mattie B, Educ.....Everett  
 Wood, Warren G, Unmat.....Exeter, Calif  
 Woodcock, Lou, Grad.....Dungeness  
 Woodhead, Thos W, Unmat. Vancouver, BC  
 Woodrow, Leon, LA.....Spokane  
 Woods, M Ethel, Unmat.....Wenatchee  
 Woods, Ione R, FA.....Ellisport  
 Woods, Ruth E, Grad.....Port Orchard  
 Woodsie, James H, Bus.....Seattle  
 Woodward, C Warren, LA.....Seattle  
 Woodward, Sibylla A, LA.....Granite Falls  
 Worthington, Patricia, LA.....Spokane  
 Wriggle, Edith M, LA.....Farmington  
 Wright, Harriet I, LA.....Spokane  
 Wright, John W, Grad.....Seattle  
 Wright, June, Grad.....Tacoma  
 Wright, Leota S, Grad.....Camas  
 Wright, Lorine, Sci.....Seattle  
 Wright, Myrtle L,.....Lewistown, Mont  
 Wright, P A, Educ.....Snohomish  
 Wright, Paul W, LA.....Seattle  
 Wright, Quintin B, LA.....Seattle  
 Wright, T H, Grad. Gibsons Landing, BC  
 Wright, Vivian, LA.....Seattle  
 Wynstra, Galle C, Unmat.....Greenacres  
 Wynstra, Stanley S, Educ.....Cheney  
 Wynstra, Walter S, Educ.....Cheney

Yager, Winifred, Unmat.....Portland, Ore  
 Yarr, Isabel, Educ.....Chimacum  
 Yeats, Leo J, Unmat.....Spokane  
 Yeck, Lois E, Educ.....Boise, Ida  
 Youell, John, LA.....Seattle  
 Young, Eclie F, Grad.....Eugene, Ore  
 Young, G W, LA.....Seattle  
 Young, Leta, Educ.....Seattle  
 Young, Wayne L, Bus.....Seattle  
 Ytterdal, Harold, Engr.....Seattle

Zackarias, Rose L, Grad.....Seattle  
 Zehle, Emma, Educ.....Lowell  
 Zehle, Flora, LA.....Lowell  
 Zener, Galen O, Bus.....White Salmon  
 Zimmer, Zada Zelma, Educ.....Hoquiam  
 Zimmerman, Frances, LA.....Seattle  
 Zimmerman, Rosa, FA.....Seattle  
 Zinn, Elma, LA.....Seattle  
 Zuber, W H, Unmat.....Yakima

## PUGET SOUND BIOLOGICAL STUDENTS—1926

Angst, Laura	Chehalis	Moore, Clarita	Seattle
Baker, Alfred	Sumas	Myers, Margaret E.	Everson
Bardon, Mary	Kallispell, Mont	Nelson, Edwin	Port Stanley
Blair, Sara	Seattle	Niven, Lewis	Canyon City, Ore
Blalock, Phoebe	Walla Walla	Norvell, Irene	Spokane
Carlson, Annie	Altoona	O'Leary, Keith	Seattle
Carlson, Carl	Altoona	Osborn, Glenn	Bellevue
Chambers, Ava L.	Seattle	Osterlund, Aili	Astoria, Ore
Courtney, Wilbur D.	Corvallis, Ore	Peterson, Anita	Tacoma
Cox, Edith	Bellingham	Phifer, Lyman	Seattle
Denniston, Frances	Seattle	Pickering, Lois	Steele City, Nebr
Drew, Kathleen M.	Lancaster, Eng	Platt, Ruth	Seattle
Dunning, Mary E.	Ferry	Quigley, Arthur J.	Vancouver, BC, Can
Egberg, Alberta	Mt Vernon	Robertson, Jocelyn	Lakeview, Ore
Emigh, Harriet	Spokane	Robinson, Beryl	Bellingham
Erickson, Mamie	Woodland	Ritchie, Idabelle	Bellingham
Folda, Florence	Crete, Nebr	Searle, Haraldine	Tacoma
Forster, Pearl M.	Ablene, Kan	Searson, Wilma	Lincoln, Nebr
Fouts, Marcia	Seattle	Seller, Joanna S.	Halstead, Kan
Freeman, Daniel	Albany, Ore	Shay, Clark W.	Wessington, Spgs, SD
Freeman, Binney S.	Victoria, BC, Canada	Sherrer, Helen	Seattle
Frye, Elizabeth	Seattle	Shlomi, Robert	Portland, Ore
Gabel, Celeste	Oklahoma City, Okla	Siler, Dorothy	Nooksack
Gabel, Geraldine	Oklahoma City, Okla	Simer, Parke H.	Monticello, Ill
Gardiner, Anne	Martinsburg, W Va	Slater, Freda B.	Bellingham
Gellerman, Mildred	Oroville	Smith, E E.	Bethany, Nebr
Graham, H J.	Toppenish	Soderberg, Miriam	Seattle
Gregg, Myra	Cincinnati, Ohio	Starkweather, Louise	Clay Center, Kan
Groves, Essie	Everson	Steele, Esther	Tacoma
Hannum, Clair A.	Seattle	Stedman, Vera	Seattle
Hamilton, Bernice M.	Spokane	Stevens, Belle	Maltby
Hand, Lyda	Custer	Svec, Georgianne	Cedar Rapids, Ia
Harris, Evelyn	Bellingham	Swanson, John H.	Buffalo, Minn
Hathaway, Jack	Decatur, Ill	Templeton, Verta	Bellingham
Hibner, Mary	Buhl, Ida	Thomas, Mary	Port Townsend
Hillis, Ida	Butte, Mont	Tierney, Gerald	Walla Walla
Hultman, Jennie	Omaha, Nebr	Towler, Emmett D.	LaGrande, Ore
Hyde, A S.	Olivet, Mich	Towler, Margueriette C.	LaGrande, Ore
Jewett, Elsie K.	Vancouver	Troxell, Beryl	Bellingham
Johnson, Arthur F.	Seattle	Tyler, Geraldine	Snohomish
Knox, Elizabeth	Fort Morgan, Colo	Underhill, Julia A.	White Bluffs
Lane, Helen	Omaha, Nebr	VanHise, Ione	Sumner
Leach, Kathryn	Bellingham	Van Over, William	Everson
LeNeve, Nina	Seattle	Van Tilborg, Laurance	Seattle
Leonard, Myra	Blaine	Washburn, Margery	Portland, Ore
Limbach, Dorothy	Seattle	Werby, Helena	Seattle
Logan, George A.	Spokane	Williams, Gladys	Longmont, Colo
Lord, Mrs Alice B.	Pittsburgh, Pa	Williams, Martin M D.	Spokane
Loveland, Grace	Wellesley, Mass	Wilson, Paul	Yakima
Lowrie, Ruth	Seattle	Wismer, Nettie M.	Lawrence, Kan
Macnab, James A.	McMinnville, Ore	Worley, Leonard	Lincoln, Nebr
McCullough, Edward	Bellingham	Wright, Margaret	Kellogg, Ida
Miller, Ruth C.	Eugene, Ore		

**SUMMARY OF ENROLLMENT**  
**1926-1927**

## SUMMARY OF ENROLLMENT—1926-1927

BY SCHOOLS AND COLLEGES

SCHOOLS AND COLLEGES	SUMMER QUARTER			AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER	TOTAL Individ'ls Reg. Yr.
	1st Term	2nd Term	Total Individ'ls				
	1	2	3	4	5	6	7
Grad. School	628	511	659	305	314	302	399
Men.....	245	232	270	162	173	164	217
Women...	383	279	389	143	141	138	182
Lib. Arts....	736	559	763	2552	2506	2257	2878
Men.....	168	177	178	1185	1181	1026	1347
Women...	568	382	585	1367	1325	1231	1531
Science.....	202	169	328	792	748	714	902
Men.....	58	50	100	330	341	295	382
Women...	144	119	228	462	407	419	520
Bus. Admin..	152	134	160	1044	1052	932	1236
Men.....	116	100	121	885	887	784	1043
Women...	36	34	39	159	165	148	193
Education...	513	408	546	161	186	195	209
Men.....	105	104	116	48	54	54	58
Women...	408	304	430	113	132	141	151
Engineering..	33	29	34	667	659	556	782
Men.....	33	29	34	665	657	554	780
Women...	..	..	..	2	2	2	2
Fine Arts....	85	108	135	708	713	665	776
Men.....	6	10	16	158	167	149	186
Women...	79	98	119	550	546	516	590
Fisheries....	..	6	6	72	87	68	97
Men.....	..	6	6	72	86	67	96
Women...	..	..	..	..	1	1	1
Forestry.....	..	8	8	152	147	129	166
Men.....	..	8	8	151	147	129	165
Women...	..	..	..	1	..	..	1
Journalism...	25	10	25	51	50	69	70
Men.....	6	4	6	29	22	37	37
Women...	19	6	19	22	28	32	33
Law.....	22	12	25	164	154	158	192
Men.....	21	12	24	162	153	156	190
Women...	1	..	1	2	1	2	2
Library Sci..	..	..	..	42	38	32	63
Men.....	..	..	..	3	2	1	3
Women...	..	..	..	39	36	31	60
Mines.....	..	..	..	21	15	17	24
Men.....	..	..	..	19	14	16	22
Women...	..	..	..	2	1	1	2
Pharmacy...	8	5	8	120	126	122	139
Men.....	5	2	5	96	104	97	111
Women...	3	3	3	24	22	25	28
TOTALS.....	2404	1959	2697	6851	6795	6216	7933
Men.....	763	734	884	3965	3988	3529	4637
Women...	1641	1225	1813	2886	2807	2687	3296

NOTE: Columns 1, 2, 4, 5 and 6 represent census figures, i. e., the enrollment taken on a stated day within the first month of a term or quarter. Columns 3 and 7 show figures representing the number of individuals registered, Column 3 the number registered during the summer quarter, Column 7 the number registered during the academic year. For comparison with other institutions, the figures in columns 3 and 7 should be used, as these are the customary catalogue figures.



## SUMMARY OF ENROLLMENT—1926-1927

## BY CLASSES

SCHOOLS AND COLLEGES	SUMMER QUARTER			AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER	TOTAL Individ'ls Reg. Yr.
	1st Term	2nd Term	Total Individ'ls				
	1	2	3	4	5	6	7
Graduates...	629	511	700	327	359	344	438
Men.....	246	232	285	181	198	190	237
Women...	383	279	415	146	161	154	201
Seniors.....	517	362	584	654	725	1040	1176
Men.....	167	142	173	354	382	535	624
Women...	350	220	411	300	343	505	552
Juniors.....	744	575	772	1155	1104	1222	1289
Men.....	176	180	197	642	632	676	738
Women...	568	395	575	513	472	546	551
Sophomores..	258	283	380	1555	1482	1476	1670
Men.....	78	89	130	874	861	890	975
Women...	180	194	250	681	621	586	695
Freshmen....	222	214	224	3072	3091	2084	3234
Men.....	86	85	88	1895	1894	1218	2033
Women...	136	129	136	1177	1197	866	1201
Specials.....	34	14	37	88	34	50	126
Men.....	10	6	11	19	21	20	30
Women...	24	8	26	69	13	30	96
TOTALS.....	2404	1959	2697	6851	6795	6216	7933
Men.....	763	734	884	3965	3988	3529	4637
Women...	1641	1225	1813	2886	2807	2687	3296

NOTE: Columns 1, 2, 4, 5 and 6 represent census figures, i. e., the enrollment taken on a stated day within the first month of a term or quarter. Columns 8 and 7 show figures representing the number of individuals registered, Column 8 the number registered during the summer quarter, Column 7 the number registered during the academic year. For comparison with other institutions, the figures in columns 8 and 7 should be used, as these are the customary catalogue figures.

## TOTAL STUDENTS IN RESIDENCE

During regular academic year.....	7,933
During summer quarter.....	2,697
	10,630
Deduct summer quarter duplicates.....	461
	10,169

## EXTENSION STUDENTS

Home Study		
Men.....	915	
Women.....	925	
		1,840
Extension Classes		
Men.....	618	
Women.....	2,984	
		3,602
Total Extension.....		5,442

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