Phone call from Dean Bolton 7-9-26
said that only 5 hrs of Educ may be taken
by extension toward the life diploma

CATALOGUE

UNIVERSITY OF WASHINGTON

FOR 1924-1925

ANNOUNCEMENTS

FOR 1925-1926

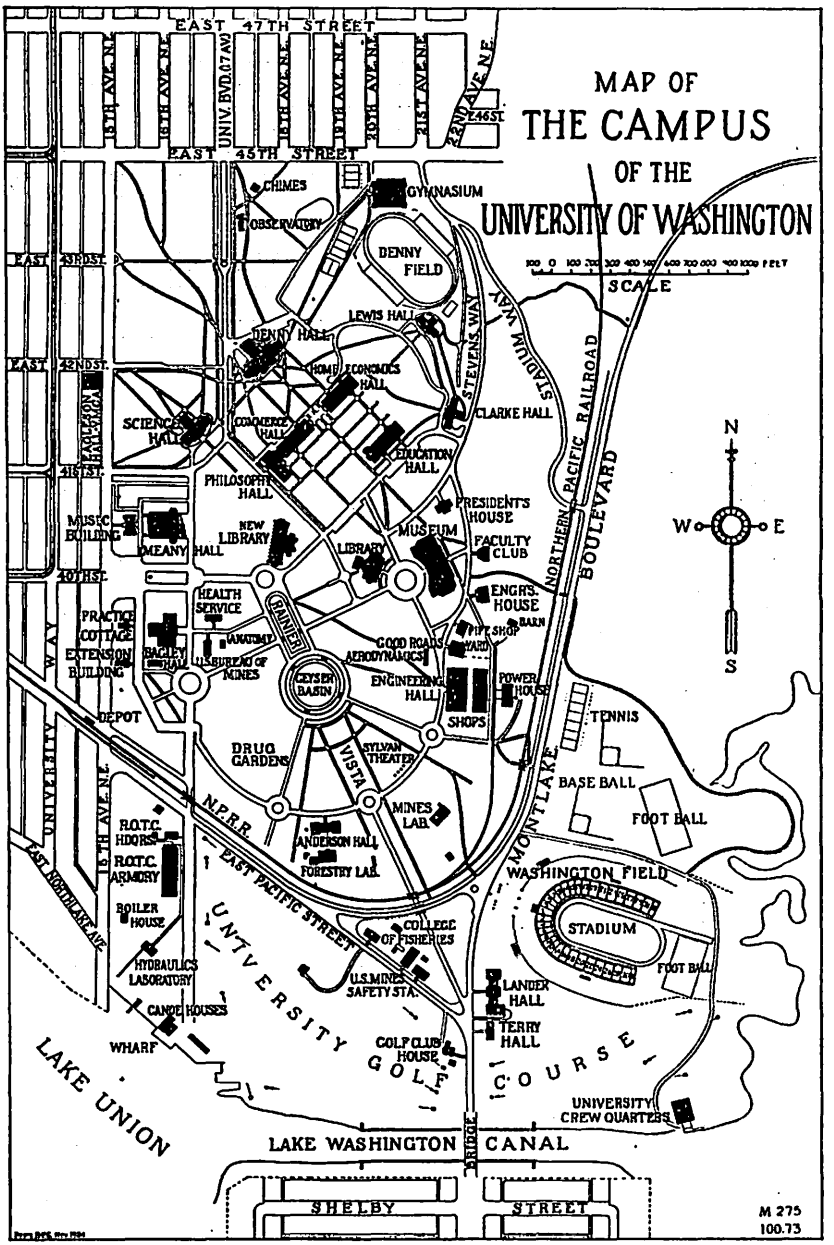


SEATTLE, WASHINGTON

Seattle
University of Washington Press
1925

NOTICE

The University and its various schools and departments reserve the right to change the rules regulating admission to the University and its schools, and any other regulations affecting the student body, or the granting of degrees. 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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THE UNIVERSITY CALENDAR

1925-1926

AUTUMN QUARTER

Examination for admission, and for exemption from Freshman English....Wednesday, Thursday, and Friday, September 23, 24 and 25
Registration days.....Monday, Tuesday, Wednesday, September 28, 29, 30
Instruction begins.....Thursday, October 1, 8 a.m.
Regular meeting of the Faculty.....Tuesday, October 20, 4 p.m.
Thanksgiving recess begins.....Wednesday, November 25, 6 p.m.
Thanksgiving recess ends.....Monday, November 30, 8 a.m.
Regular meeting of the Faculty.....Tuesday, December 15, 4 p.m.
Examinations for Admission
Wednesday, Thursday, and Friday, December 16, 17, and 18
Instruction ends.....Friday, December 18, 6 p.m.

WINTER QUARTER

Registration day.....Monday, January 4
Instruction begins.....Tuesday, January 5, 8 a.m.
Regular meeting of the Faculty.....Tuesday, January 26, 4 p.m.
Washington's birthday (holiday).....Monday, February 22
Regular meeting of the Faculty.....Tuesday, March 16, 4 p.m.
Examinations for Admission
Monday, Tuesday, and Wednesday, March 22, 23, and 24
Instruction ends.....Wednesday, March 24, 6 p.m.

SPRING QUARTER

Registration day.....Monday, March 29
Instruction begins.....Tuesday, March 30, 8 a.m.
Campus day.....Friday, April 30
Regular meeting of the Faculty.....Tuesday, April 20, 4 p.m.
Memorial day (holiday).....Monday, May 31
Examinations for Admission
Wednesday, Thursday, and Friday, June 9, 10, 11
Instruction ends.....Friday, June 11, 6 p.m.
Class Day and Alumni Day.....Saturday, June 12
Baccalaureate Sunday.....Sunday, June 13
Commencement.....Monday, June 14

SUMMER QUARTER

Registration day.....Tuesday, June 15
Instruction begins.....Wednesday, June 16, 8 a.m.
Independence day (holiday).....Monday, July 5
Examinations for Admission
Wednesday, Thursday, and Friday, July 21, 22, 23
First term ends, second term begins.....Friday, July 23
Instruction ends.....Wednesday, August 25, 6 p.m.

THE BOARD OF REGENTS

ROGER R. ROGERS, President.....Spokane
Term ends March, 1926

JOHN T. HEFFERNAN, Vice-President.....Seattle
Term ends March, 1929

WINLOCK W. MILLER.....Seattle
Term ends March, 1926

WERNER A. RUPP.....Aberdeen
Term ends March, 1927

OSCAR A. FECHTER.....Yakima
Term ends March, 1928

JAMES H. DAVIS.....Tacoma
Term ends March, 1928

RUTH KARR McKEE.....Kelso
Term ends March, 1929

**HERBERT THOMAS CONDON, Secretary to the Board

*WILLIAM MARKHAM, Secretary to the Board

COMMITTEES OF THE BOARD OF REGENTS

BIOLOGICAL STATION.....Davis (chairman), Fechter, Rogers
BUILDINGS AND GROUNDS.....Miller (chairman), Rupp, Rogers
COOPERATIONS.....Heffernan (chairman), McKee, Davis
FINANCE.....Davis (chairman), Miller, Heffernan
LANDS AND DEMONSTRATION FOREST.....Rupp (chairman), Fechter, McKee
METROPOLITAN LEASE.....Fechter (chairman), Rupp, Miller
STUDENT WELFARE.....McKee (chairman, Rogers, Heffernan

*Resigned, March 1, 1925.
**Appointed, March 1, 1925.

OFFICERS OF ADMINISTRATION

The University

HENRY SUZZALLO, Ph.D., LL.D.....President of the University
Education Hall

JOHN THOMAS CONDON, LL.M.....Dean of Faculties
Education Hall

HERBERT THOMAS CONDON, LL.B.....Comptroller
Education Hall

EDWARD NOBLE STONE, A.M.....Registrar
Education Hall

EDWIN BICKNELL STEVENS, A.M.....Efficiency Officer
Education Hall

JAMES EDWARD GOULD, A.M.....Dean of Men
Education Hall

WINNIFRED SUNDERLIN HAGGETT, A.M.....Dean of Women
Education 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

HOWARD THOMPSON LEWIS, 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.....Director of the College of Fisheries
Fisheries Hall

HUGO WINKENWERDER, M.F.....Dean of the College of Forestry
Anderson Hall

MATTHEW LYLE SPENCER, Ph.D...Director of the School of Journalism
Commerce Hall

JOHN THOMAS CONDON, LL.M.....Dean of the School of Law
Commerce Hall

WILLIAM ELMER HENRY, A.M.....Director 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 C. ROBERTS, Ph.D.....Director
Extension Hall

ASSISTANT ADMINISTRATIVE OFFICERS

Lillian Brown Getty.....*Secretary to the President*
Matthew William Hill, LL.B.....*Alumni and Field Secretary*
James Matthew O'Connor, Jr., A.B.....*Editorial Secretary*
May Ward, A.M.....*Assistant Dean of Women*
Max Hipkoe.....*Assistant Purchasing Agent*
William Beach Jones, A.B.....*Cashier*
Aimee Wilson.....*Secretary to the Comptroller*
Sara Norris Mark, A.B.....*Assistant Registrar*
Ethel Orvis Reinhard, A.B.....*Secretary to the Registrar*
Lois J. Wentworth, A.B.....*Secretary to the Dean of the Graduate School*
Roberta W. Limbach.....*Chief Clerk, Bureau of Appointments*

LIBRARY STAFF

William Elmer Henry, A.M. (Indiana).....*Librarian and Director of the Library School*
Charles Wesley Smith, A.B., B.L.S. (Illinois).....*Reference Librarian and Associate Professor of Library Economy*
Arthur Beardsley, LL.B., B.S.(Lib.Sci.), M.A. (Washington).....*Law Librarian*
Marie Alphonso, A.B. (Nebraska).....*Catalogue Librarian*
Marie Sneed, A.B., B.S.(Lib.Sci.) (Washington).....*Circulation Librarian*
Marguerite 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*
Dorothy Baker, A.B., B.S.(Lib.Sci.) (Washington)..*Senior Assistant, Catalogue Department*
Lydia McCutcheon, A.B. (Iowa) (Washington Library School).....*Senior Assistant, Order Department*
Elva Batcheller, A.B., B.S.(Lib.Sci.) (Washington)..*Senior Assistant, Reference Department*
Ethel Christoffers, B.S. (Lib.Sci.) (Washington)....*Senior Assistant, Reference Department*
Berenice Hayes, A.B. (Montana).....*Junior Assistant, Catalogue Department*
Luella Larson, B.S., A.B.(Lib.Sci.) (Washington)..*Junior Assistant, Catalogue Department*
Gezina Upper, A.B. (Washington).....*Junior Assistant, Circulation Department*
Margaret Jones, A.B. (Washington).....*Junior Assistant, Order Department*
Maud Moseley, B.S.(Lib.Sci.) (Washington).....*Junior Assistant, Order Department*

THE MUSEUM

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

THE EXTENSION SERVICE

Alexander Crippen Roberts, Ph.D.....*Director*

ENGINEERING EXPERIMENT STATION

Carl Edward Magnusson, Ph.D. E.E.....*Director*

PUGET SOUND BIOLOGICAL STATION

Theodore Christian Frye, Ph.D.....*Director*

UNITED STATES ARMY RESERVE OFFICERS' TRAINING CORPS

James Francis Brady.....*Colonel, C.A.C.*
Royal Kemp Greene.....*Major, C.A.C.*
Henry Clinton Kress Muhlenberg.....*Major, Air Service*
Otto Harry Schrader.....*Major, C.A.C.*
Keith Sumner Gregory.....*Major, U.S.A., Retired*
Edgar Harrison Underwood.....*Captain, C.A.C.*

Hugh Donald Adair.....*Captain, Infantry*
William Allan Hale.....*Captain, Infantry*
Harold Ragan Priest.....*Captain, Infantry*
John Edward Nolan.....*First Lieutenant, Infantry*
Harry Barre White.....*Warrant Officer, U.S.A.*
Charles Benton Franke.....*Warrant Officer, U.S.A., Retired*
Emil Wunderlich.....*Quartermaster Sergeant, U.S.A., Retired*
Walter Lang.....*Staff Sergeant, D.E.M.L.*
William Compton.....*Sergeant, D.E.M.L.*
Ray Bailey.....*Sergeant, D.E.M.L.*
Harry Beckett.....*Sergeant, D.E.M.L.*
Luther Justice.....*Sergeant, D.E.M.L.*
Patrick Maughan.....*Sergeant, D.E.M.L.*
Charles Freeman.....*Private First Class*
Harold Hansen.....*Private First Class*
William Honeas.....*Private First Class*

UNIVERSITY OF WASHINGTON STATION OF THE UNITED STATES FOREST SERVICE

Conrad W. Zimmerman, A.B.....*Engineer in Timber Tests, in charge*

NORTHWEST EXPERIMENT STATION UNITED STATES BUREAU OF MINES

Clyde E. Williams, B.S.....*Superintendent*
Edward P. Barrett, B.S.....*Assistant Metallurgist*
Clarence E. Sims, M.S.....*Electrometallurgist*
Byron M. Bird, B.S. in Met.E.....*Assistant Mining Engineer*
Bernard M. Larson, M.S.....*Junior Metallurgist*
Carl Edwin Wood, B.S. (Ch.E.).....*Junior Chemist*

STATE CHEMIST

Charles Willis Johnson, Ph.C., Ph.D.....*State Chemist*

UNITED STATES VETERANS BUREAU REHABILITATION DIVISION

Leonard Williams.....*In Charge*

BUILDINGS AND GROUNDS

Frederic Elwell .....*Superintendent*

UNIVERSITY DINING AND RESIDENCE HALLS

Ruth Margaret Lusby, A.M.....*Supervisor of Dining Halls*

UNIVERSITY HEALTH SERVICE

David Connolly Hall, M.D.....*University Health Officer*
Lilian Collison Irwin, M.D.....*Medical Examiner for Women*
Maude Reeder, R.N.....*Resident Nurse*
Jessie Jolliffe, R.N.....*Public Health Nurse*

THE UNIVERSITY FACULTY

Henry Suzzallo.....*President of the University*
John Thomas Condon.....*Dean of Faculties*
Edward Noble Stone.....*Registrar*

The University Faculty consists of instructors, associates, and all teachers of professional rank. It is made up of five special faculties, constituted of the members of various departments as follows:

I. Faculty of Fine Arts: Irving Mackey Glen.....*Acting Dean*
Architecture, Dramatic Art, Music, Painting, Sculpture and Design.

II. Faculty of Letters: David Thomson.....*Acting Dean*
Classical Languages, English, Germanic Languages, Liberal Arts, Oriental History, Romanic Languages, Scandinavian Languages.

III. Faculty of Science: Henry Landes.....*Acting Dean*
Anatomy, Astronomy, Bacteriology, Botany, Chemistry, Fisheries, Geology, Home Economics, Mathematics, Nursing, Pharmacy, Physical Education and Hygiene, Physics, Physiology, Psychology, Zoology.

IV. Faculty of Social Science: John Thomas Condon.....*Acting Dean*
Anthropology, Economics and Business Administration, Education, History, Journalism, Law, Library Science, Philosophy, Political Science, Sociology.

V. Faculty of Technology: Carl Edward Magnusson.....*Acting Dean*
Aeronautical Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Forestry, Mechanical Engineering, Military Science, Mining and Metallurgy.

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 16.

PROFESSORS

Henry Landes
Edmond Stephen Meany
Caroline Haven Ober
John Thomas Condon
Trevor Kincaid
Frederick Morgan Padelford
Milnor Roberts
William Savery
Frederick Arthur Osborn
David Thomson
Charles Willis Johnson
Pierre Joseph Frein
Theodore Christian Frye
Robert Edouard Moritz
Carl Edward Magnusson
Harvey Lantz
Everett Owen Eastwood
William Elmer Henry
David Connolly Hall
Herbert Henry Gowen
Oliver Huntington Richardson
Ivan Wilbur Goodner
Irving Mackay Glen
Charles Church More
Henry Kreitzer Benson
John Weinzirl
Hugo Winkenwerder
Vernon Louis Parrington
Frederick Elmer Bolton
Edwin John Vickner
Effie Isabel Raitt
William Franklin Allison
Stevenson Smith
Clark Prescott Bissett
Allen Rogers Benham
Leslie James Ayer
Fred Carleton Ayer
John Nathan Cobb
William Maurice Dehn
Howard Woolston
Matthew Lyle Spencer[2]
George McPhail Smith
Burt Persons Kirkland
Howard Thompson Lewis
James Edward Gould
Charles Edwin Weaver[2]
Eric Temple Bell
George Wallace Umphrey
Carl Frelinghuysen Gould
John Locke Worcester
Howard Hall Preston
Edgar Dunnington Randolph
Edgar Allen Loew
Joseph Daniels[2]
Friedrich Kurt Kirsten
Winnifred Sunderlin Haggett
William Daniel Moriarty
Elias Treat Clark
William Edward Cox
Herbert Ellsworth Cory
Carl Spencer Dakan
James Francis Brady
George Samuel Wilson
Charles William Harris
Alexander Chippen Roberts
Charles Emanuel Martin[2]
Wilfred Eldred

2. Absent 1924-25.
3. Absent spring quarter, 1924-25.

ASSOCIATE PROFESSORS

LOREN DOUGLAS MILLIMAN
THOMAS KAY SIDEY
EDWARD MCMAHON
CHARLES WESLEY SMITH
OTTO PATZER
EDWARD GODFREY COX
ALLEN FULLER CARPENTER
HENRY LOUIS BRAKEL
GEORGE BURTON RIGG
HARRY EDWIN SMITH
ARTHUR MELVIN WINSLOW
CHARLES GOGGIO
RODERICK DUNCAN MCKENZIE
HERMAN VANCE TARTAR
ROY MARTIN WINGER
MORITZ ROSEN
ALBERT FRANZ VENINO
CARL PAIGE WOOD
ELDIN VERNE LYNN
HENRY AUGUST LANGENHAN
WALTER ISAACS
MACY MILMORE SKINNER
THOMAS GORDON THOMPSON
ROBERT WILLIAM JONES
CARL RAYMOND FELLERS
CHARLES RAYMOND ATKINSON
GRACE GOLDENA DENNY
CURT JOHN DUCASSE
CHARLES CULBERTSON MAY
HENRY ALFRED BURD
WILLIAM HENRY GEORGE
DUDLEY DAVID GRIFFITH

ASSISTANT PROFESSORS

EDWIN JAMES SAUNDERS
GEORGE IRVING GAVETT
ELI VICTOR SMITH
HARVEY BRUCE DENSMORE
CLARENCE RAYMOND COREY
FRED WASHINGTON KENNEDY
ERNEST OTTO ECKELMAN
CHARLES LOUIS HELMLINGER
JOHN WILLIAM HOTSON
THERESA SCHMID MCMAHON
LOUIS IRVING NEIKIRK
FRANCES DICKEY
SAMUEL HERBERT ANDERSON
SERENO BURTON CLARK
BROR LEONARD GRONDAL
EDWIN RAY GUTHRIE
VIRGINIA CUNNINGHAM PATTY
HEWITT WILSON
MARY EMMA GROSS
IRA LEONARD COLLIER
GEORGE EDWARD GOODSPEED
JOHN CHARLES RATHBUN
CURTIS TALMADGE WILLIAMS
JOSEPH BARLOW HARRISON
MARTHA KOEHNE
JAMES GEORGE ARBUTHNOT
KEITH SUMNER GREGORY
LOUIS PETER DE VRIES
LESLIE SPIER
HENRY STEPHEN LUCAS
JAKOB AALL OTTESEN LARSEN
HAROLD PRIEST
WILLIAM ALLAN HALE
LOUISE VAN OGLE
GORDON RUSSELL SHUCK
HOMER EWART GREGORY
ADDIE JEANETTE BLISS
EDGAR HARRISON UNDERWOOD
GILBERT SIMON SCHALLER
OTTO HARRY SCHRADER
FORD KEELER BROWN[3]
PRIMITIVO ELIO SANJURJO
AUGUST DVORAK
RACHEL EMILIE HOFFSTADT
JOHN EARL GUBERLET
FRANK JOSEPH LAUBE
GLENN ARTHUR HUGHES
KARL ELIAS LEIB
ELGIN ROSCOE WILCOX
HENRY CLINTON MUHLENBERG
ROBERT CUNNINGHAM MILLER
ROYAL GREENE
HUGH ADAIR

LECTURERS AND ASSOCIATES

JOSEPH GRATTAN O'BRYAN
FREDERICK POWELL
CONRAD ZIMMERMAN
LILIAN BLOOM
EUGENIE WORMAN
AMBROSE PATTERSON
ETHEL SANDERSON RADFORD
MARJORIE WHIPPLE PETERSON
JAMES MCCONAHEY
WILLIAM BENNETT HENDERSON
PAMELIA JONES
SYLVIA KERRIGAN
BERTHA ALMEN VICKNER
EBBA DAHLIN
EARL WEST
ELIZABETH SOULE
CLARENCE EDMUNDSON
CARL ZENO DRAVES
CLYDE MYRON CRAMLET
RACHEL ELIZABETH HAMILTON
ENOCH BAGSHAW
FRANK CHESTER VAN DE WALKER
JAMES POSTLEWAIT ROBERTSON
PEARCE CRANE DAVIS
ARTHUR RANDOLPH JERBERT
CORNELIUS OSSEWARD
GUSTAF ALFRED MAGNUSSON
NORMAN LEE BURTON
IVY BUCHANAN
RUSSELL STANLEY CALLOW
DORSETT GRAVES
JANE SORRIE LAWSON
JAMES MATTHEW O'CONNOR, JR.
ALICE COLEMAN BOGARDUS
MARIE ALFONSO
MARGUERITE PUTNAM
OSCAR ELDRIDGE DRAPER
ALFRIDA STORM
ALBERT LOVEJOY
JOHN BUTLER
SARAH VIRGINIA LEWIS
ARLIEN JOHNSON
LUELLA VENINO
CLARA BELL LYNCH
WAYNE CAMPBELL SUTTON
OTTIS BEDNEY SPERLIN
JOSEPH MARION TAYLOR
LOU EASTWOOD ANDERSON

3. Absent winter and spring quarters, 1924-25.

LECTURERS AND ASSOCIATES (Continued)

AMY VIOLET HALL
LURLINE SIMPSON
LILIAN COLLISON IRWIN
KIRSTEN NEWBERRY
MAUDE PARSON
READ BAIN
CECIL HUGHES
BURTON WAKELEY JAMES
ELENORA WESNER
FERNAND CATTELAIN
EDNA MABON
KENNETH CAREY COLE
SHELDON LATTA GLOVER
MARGARET CRAWFORD
ALONZO VICTOR LEWIS
JOSEPH WASHINGTON HALL[4]
ARTHUR TRUAX[5]
SOPHUS KEITH WINTHER[4]
PAUL LOVERING[7]

INSTRUCTORS

WALTER BELL WHITTLESEY
ALLETTA GILLETTE
ALBERT PORTER ADAMS
ANNETTE EDENS
JAMES BAKER HAMILTON
MARTHA DRESSLAR
FORREST JACKSON GOODRICH
RALPH MASON BLAKE
GEORGE KIRCHNER
WILLIAM RONALD WILSON
HARRY JOHN MCINTYRE
EILENE FRENCH
RUTH MARGARET LUSBY
WILLARD HENRY ELLER
SARGENT POWELL
BYRON TOWNE MCMINN
ROBERT HAROLD EDMONDS
GEORGE LISLE HOARD
MARY LAURA AID
FRANK HARTMOND HAMACK
GEORGE SHERMAN SMITH
JOHN EDWARD NOLAN
WILLIAM RUSSELL
HELEN RHODES
DONALD RUSSELL CRAWFORD
LEO ARTHUR BORAH
WARREN LORD BUESCHLEIN
HERMANCE MULLEMEISTER
WALDO SEMON
RAYMOND FOREST FARWELL
RUFUS BRELAND
FLORENCE MAY MORSE
ARTHUR HERRMAN
ALFRED LAWRENCE MILLER
SERGIUS AMALLEFF
HIRAM MARTIN CHITTENDEN, JR.[6]
HOPE LUCILLE FOOTE
GEORGE ANDREW LUNDBERG
LANCELOT EDWARD GOWEN
CECIL EDEN QUAINTON
HENRY MATTHEW BURLAGE
MATILDA JANE MCGOWND
HARRY MAURICE WILTEN
LYMAN CROWELL BOYNTON
ROY ERIC LINDBLOM
AUSTIN EASTMAN
WILLIAM REITZEL
HAROLD WATSON NIGHTINGALE
GEORGE EDWARD HAWTHORN
ELMER JAMES WHITE[6]
JOSEPH HALL DODD
CHARLES DUNCAN ROSS[5]

ASSISTANTS

Ruth Allen, B.Mus.....*Assistant in Music*
Lois Brown, A.M.....*Assistant in English*
Sarah Brown, A.B.....*Assistant in Philosophy*
Grant Illion Butterbaugh, M.B.A.....*Assistant in Business Administration*
Iris Fern Canfield, B. Mus.....*Assistant in Music*
Adelaide Louise Fairbanks, A.M.....*Assistant in English*
Robin Wilkes Goodrich, M.S.....*Assistant State Chemist*
Lois Griffith, M.S.....*Assistant in Mathematics*
Dorothy Gene Haggett, A.B.....*Assistant in English*
Leone Helmich, B.S.....*Assistant in Physical Education*
Paul Higgs, B.S.....*Demonstrator in Physics*
William Jefferson.....*Assistant in Golf*
Kai Jensen, A.B.....*Assistant in English*
Louise McDonald, A.B.....*Assistant in English*
Jean McMorran, A.M.....*Assistant in English*
William Maxwell, A.M.....*Assistant in English*
Loren Milliman, A.B.....*Assistant in English*
Gerda Okerlund, M.A.....*Assistant in English*
Louise Dow Oliver, B.Mus.....*Assistant in Music*

4 Winter and Spring Quarters 1924-25.
5 Winter Quarter 1924-25.
6 Fall and Winter Quarter 1924-25.
7 Spring Quarter 1924-25.

ASSISTANTS (Continued)

Margaret Muir Raine, A.B. ..... *Assistant in English*
Marie Adele Reeves, B.F.A. ..... *Assistant in Music*
Gladys Strong, A.B. ..... *Assistant in Gatzert Foundation*
Clayton Lee Sullivan ..... *Assistant in Shop Engineering*
Lucille Turnacliffe, B.S. ..... *Assistant State Chemist*
[2]Madge Wilkinson, M.S. ..... *Assistant in Gatzert Foundation*
Harriett Snidow, B.S. ..... *Assistant in Pharmacy*
Hershel Graves ..... *Assistant in Civil Engineering*

TEACHING FELLOWS

Harold Rafn, B.S. ..... *Bacteriology*
Sylvia Johnson, B.S. ..... *Bacteriology*
Edward Cruzen, B.B.A. ..... *Business Administration*
Ralph Rutledge, A.M. ..... *Business Administration*
Raymond Whittlesey, A.B. ..... *Business Administration*
Earl Wood, A.B. ..... *Business Administration*
Melvin DeShazo, A.B. ..... *Business Administration*
Katherine Wolfe, A.M. ..... *Botany*
Laura Angst, A.B. ..... *Botany*
Charles M. Roberts, B.S. ..... *Botany*
Lena Hartge, M.S. ..... *Botany*
Jean Morse, A.B. ..... *Chemistry*
Ernest Edgerton, B.S. ..... *Chemistry*
Roger Truesdale, B.S. ..... *Chemistry*
Richard Damerell, B.S. ..... *Chemistry*
James Lorah, M.S. ..... *Chemistry*
Perry Bourlier, A.B. ..... *Chemistry*
Garland Ethel, A.B. ..... *English and Philosophy*
James Ernst, A.M. ..... *English*
Julia Cox, A.B. ..... *English*
Maxine Finlay, A.B. ..... *English*
Evelyn Hurspool, A.B. ..... *English*
Grant Merrill, A.B. ..... *English*
Elaine Swenson, B.Mus. ..... *English and Education*
Maude Ryder, A.B. ..... *Philosophy*
Ottilie Terzieff, A.B. ..... *German*
Mabel Watt, B.S. ..... *Home Economics*
Stephen B. Jones, B.S. ..... *Geology*
Frederick James Brand, B.S. ..... *Mathematics*
John Biggerstaff, A.B. ..... *Mathematics*
Margaret Thomas, B.S. ..... *Mathematics*
Grace Baumgartner, A.M. ..... *Mathematics*
Dorothy Gaston, B.S. ..... *Pharmacy*
Orion Zumwalt, B.S. ..... *Pharmacy*
James Brown, B.S. ..... *Physics*
Oscar Starr, A.B. ..... *Physics*
George Kretchmar, M.S. ..... *Physics*
George Vetter, B.S. ..... *Psychology*
Ralph Gundlach, M.A. ..... *Psychology*
Helen Eagleson, Ph.D. ..... *Psychology*
Dominic Salandra, A.B. ..... *Spanish*
Adella Johnson, A.B. ..... *French*
Dorothy Chesley, M.A. ..... *French*
William Charles Wilson, M.A. ..... *Spanish*
Denzel Cline, A.B. ..... *Sociology*
Clair Hannum, M.S. ..... *Zoology*
Marian Meaker, B.S. ..... *Zoology*
Ruth Warner, B.S. ..... *Zoology*
Robert Campbell, B.S. ..... *Zoology*
Thomas Etherington, B.S. ..... *Geology*

2. Absent, 1924-25.

GRADUATE SCHOLARS

Harry Inkster, B.S. ..... *Anatomy*
Martha Nix, M.A. ..... *English*
Ferdinand Butt, M.A. ..... *English*
Muriel O'Niel, M.A. ..... *History*
Donald Chalaire, A.B. ..... *History*
Anita Joan Graybill, A.B. ..... *History*
Margaret Mapes, B.S. ..... *Home Economics*
Frank Lee, B.S. ..... *Pharmacy*
Paul Backman, M.A. ..... *Political Science*
George McCush, A.B. ..... *Business Administration*
Suzanne Scholl, B.B.A. ..... *Business Administration*
Morris Plummer, B.B.A. ..... *Business Administration*
Harold Watt, B.B.A. ..... *Business Administration*
Richardson Roundtree, B.B.A. ..... *Business Administration*

RESEARCH FELLOWS

Clifford Webster Read, B.S. (Min.E.) ..... *Mining (Mining Engineering)*
Harold Edmond Brandebury, M.S. (Met.E.) ..... *Mining (Mining Engineering)*
Paul Francis Devine, B.S. (Min.E.) ..... *Mining (Metallurgy)*

LORETTA DENNY FELLOWS

Gunnar Leifson, B.S. (C.E.) ..... *Civil Engineering*

ARTHUR A. DENNY FELLOWS

Frederick Valentine Lofgren, M.S. ..... *Pharmacy*
Gustav Ferdinand Larson, M.A. ..... *History*
Edwin Harold Eby, Ph.B. ..... *English*
Carl Spurgeon Bell, B.S. ..... *Education*
David Rickles, M.S. (Ch.E.) ..... *Mining Engineering*
Frank Bulwer Pooley, B.S. (C.E.) ..... *Civil Engineering*
Chester Kessler Clausen, B.S. (C.E.) ..... *Civil Engineering*

DUPONT FELLOWSHIP

Philip Gordon Cohen, B.S. ..... *Chemistry*

BON MARCHE INDUSTRIAL FELLOWSHIP

Bernice Chambers, B.S. ..... *Home Economics*

COLUMBIA UNIVERSITY FELLOWSHIP IN MINING ENGINEERING AND CHEMISTRY

Not yet awarded.

Alphabetical List of the University Faculty

Henry Suzzallo.....*President of the University*
A.B., Stanford, 1899; A.M., Columbia, 1902; Ph.D., 1905; LL.D., California, 1918.

Hugh Donald Adair, Captain, Inf.....*Assistant Professor of Military Science and Tactics*
Graduate, Wentworth Military Academy, 1912.

Albert Porter Adams.....*Instructor in Music*

Mary Laura Aid.....*Instructor in Physical Education*
A.B., Wisconsin, 1920.

Marie Alfonso.....*Associate in Library Economy*
A.B., Nebraska, 1913.

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 Civil Engineering*
B.S., (M.E.) Washington, 1923.

Lou Eastwood Anderson.....*Associate in Physical Education*
B.S., Washington, 1923.

Samuel Herbert Anderson.....*Assistant Professor of Physics*
A.B., Park College, 1902; A.M., 1903; Ph.D., Illinois, 1912.

James 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.....*Lecturer on Sociology*
A.B., Willamette, 1916; A.M., Oregon, 1920.

Eric Temple Bell.....*Professor of Mathematics*
A.B., Stanford, 1904; A.M., Washington, 1908; Ph.D., Columbia, 1912.

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, 1889; A.M., 1902; Ph.D., Columbia, 1907.

Warren Lord Beuschlein.....*Instructor in Chemistry*
B.S. in Ch.E., California Institute of Technology, 1920; M.S. in Ch.E., Washington, 1925.

Clark Prescott Bissett.....*Professor of Law*
A.B., Hobart College, 1896.

Ralph Mason Blake.....*Instructor in Philosophy*
A.B., Williams College, 1911; A.M., Harvard, 1912; Ph.D., 1915.

Addie Jeanette Bliss.....*Assistant Professor of Home Economics*
A.B., Washington, 1906; A.M., Columbia, 1917.

Lilian Bloom.....*Associate in Physical Education*
Graduate, Medical Gymnastic Institute, Stockholm.

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.....*Instructor in Journalism*
A.B., Huron College, 1913; A.M., Washington, 1924.

Lyman Crowell Boynton.....*Instructor in 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.

Rufus Breland.....*Instructor in English*
A.B., Chattanooga, 1915.

Ford Keeler Brown.....*Assistant Professor of English*
A.B., Washington, 1920; Oxford.

Ivy Buchanan.....*Associate in History*
A.B., Washington, 1907; A.M., 1920.

Henry Alfred Burd.....*Associate Professor of Business Administration*
B.S., Illinois Wesleyan, 1910; A.M., Illinois, 1911; Ph.D., 1915.

Henry Matthew Burlage.....*Instructor in Pharmacy*
A.B., Indiana, 1919; A.M., Harvard, 1921; Ph.G. and B.S., Purdue, 1923.

Norman Lee Burton.....*Lecturer on Business Administration*
A.B., Williams, 1911; M.B.A., Harvard, 1917; C.P.A., 1920.

John Butler.....*Associate in Fine Arts*
Studied in Italy and France.

Russell Stanley Callow.....*Associate in Physical Education*
A.B., Washington, 1916.

Allen Fuller Carpenter.....*Associate Professor of Mathematics*
A.B., Hastings, 1901; A.M., Nebraska, 1909; Ph.D., Chicago, 1915.

Fernand Cattelain.....*Associate in Romanic Languages*
A.B., American International College, 1904; A.M., Baylor, 1921; Diploma, Universite de Besancon, 1922.

Hiram Martin Chittenden.....*Instructor in Civil Engineering*
B.S., (C.E.) Washington, 1920.

Elias Treat Clark.....*Professor of Forestry*
Ph.B., Yale, 1907; M.F., 1908.

Sereno Burton Clark.....*Assistant Professor of Latin and Greek*
A.B., Michigan, 1901; Ph.D., Harvard, 1907.

John Nathan Cobb.....*Professor of Fisheries and Director of the College of Fisheries*

Kenneth Carey Cole.....*Associate in 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.

John Thomas Condon....*Professor of Law, Dean of the School of Law, and Dean of Faculties*
LL.B., Michigan, 1891; LL.M., Northwestern, 1892.

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.....*Associate Professor of English*
A.B., Wabash, 1899; A.M., Cornell, 1901; Ph.D., 1906.

William Edward Cox.....*Professor of Business Administration*
A.B., Texas, 1909; A.M., 1910.

Clyde Myron Cramlet.....*Associate in Mathematics*
A.B., Walla Walla College, 1915; M.S., Washington, 1920.

Donald Russell Crawford.....*Instructor in Fisheries*
B.S., Washington, 1922.

Margaret Crawford.....*Associate in Dramatic Art*
B.S., Columbia, 1921; A.M., 1922.

Ebba Dahlin.....*Associate in History*
A.B., Washington, 1919; A.M., 1922.

Carl Spencer Dakan.....*Professor of Applied Banking*
B.S., Missouri, 1909.

Joseph Daniels.....*Professor of Mining Engineering and Metallurgy*
S.B., Massachusetts Institute of Technology, 1905; M.S., Lehigh, 1908.

Pearce Crane Davis.....*Lecturer on Accounting*
C.P.A., 1914.

William Maurice Dehn.....*Professor of Organic Chemistry*
A.B., Hope, 1893; A.M., 1896; 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 Romanic Languages*
A.M., Wisconsin, 1911; Ph.D., 1913.

Frances Dickey.....*Assistant Professor of Music*
Graduate, Iowa State Teachers College, 1901; B.S., Columbia, 1912; A.M., 1913.

Joseph Paul Dodd.....*Instructor in Civil Engineering*
B.S. (M.E.), Washington, 1923.

Oscar Eldridge Draper.....*Lecturer on Business Administration*
M.Acct., Vories Business College.

Carl Zeno Draves.....*Associate in Chemistry*
B.S., (C.E.), Washington, 1917; M.S., 1922; Ph.D., 1925.

Martha Estella Dresslar.....*Instructor in Home Economics*
B.A., Southern California, 1913; B.S., Washington, 1917; M.S., Columbia, 1918.

Curt John Ducasse.....*Associate Professor of Philosophy*
A.B., Washington, 1908; A.M., 1909; Ph.D., Harvard, 1912.

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, (Germany), 1906.

Annette Edens.....*Instructor in Design*
New York School of Fine and Applied Arts, Columbia.

Robert Harold Gray Edmonds.....*Instructor in Mechanical Engineering*
B.S., Whitman, 1915; B.S. (M.E.), Washington, 1922.

Clarence Edmundson.....*Associate in Physical Education*
B.S., Idaho, 1910.

Wilfred Eldred.....*Professor of Business Administration*
A.B. and A.M., Washington and Lee, 1909; A.M., Harvard, 1911; Ph.D., 1919.

Willard Henry Eller.....*Instructor in Physics*
B.S. (E.E.), California, 1914.

Raymond Forrest Farwell.....*Instructor in Business Administration*
A.B., California, 1920.

Carl Raymond Fellers.....*Associate Professor of Food Preservation*
B.S., Cornell, 1914; M.S., 1915; Ph.D., New Jersey State College, 1917.

Hope Lucille Foote.....*Instructor in Interior Decoration*
A.B., Iowa State Teachers College, 1920; A.M., Columbia, 1923.

Pierre Joseph Frein.....*Professor of Romanic Languages*
A.B., Williams, 1892; Ph.D., Johns Hopkins, 1899.

Eilene French.....*Instructor in Music*
B.Mus., Washington, 1916; A.M., Columbia, 1920 .

Theodore Christian Frye.....*Professor of Botany*
B.S., Illinois, 1894; Ph.D., Chicago, 1902.

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; Dean of the College of Fine Arts*
A.B., Oregon, 1894; A.M., 1897.

Shelton Latta Glover.....*Associate in Geology*
B.S., Washington, 1919; M.S., 1922.

Charles Goggio.....*Associate Professor of Romanic 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.....*Instructor in Pharmacy and Materia Medica*
Ph.C., Washington, 1913; B.S., 1914; M.S., 1917.

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.....*Instructor in 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, Captain, Infantry..*Assistant Professor of Military Science and Tactics*
Graduate, U.S. Military Academy, 1903.

Dudley David Griffith.....*Associate Professor of English*
A.B., Simpson College, 1903; Ph.D., Chicago, 1916.

Bror Leonard Grondal.....*Assistant Professor of Forestry*
A.B., Bethany (Kansas), 1910; M.S.F., Washington, 1913.

Mary Emma Gross.....*Assistant Professor and Director of Physical Education for Women*
A.B., Goucher College, 1912; A.M., Columbia, 1915.

John Earl Guberlet.....*Assistant Professor of Zoology*
A.B., Bethany, 1909; A.M., Illinois, 1911; Ph.D., 1914.

Edwin Ray Guthrie.....*Assistant 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.

William Allan Hale, Captain, Inf., D.O.L.....*Assistant Professor of Military Science and Tactics.*
Graduate, American College of Physical Education.

Amy Violet Hall.....*Associate in English*
B.Ed., Washington, 1920; A.M., 1923.

David Connolly Hall.....*University Health Officer and Professor of Hygiene*
Ph.B., Brown, 1901; Sc.M., Chicago, 1903; M.D., Rush Medical College, 1907.

Josef Washington Hall.....*Lecturer on Oriental Languages*
A.B., Washington College (D.C.), 1915.

Frank Hartmond Hamack.....*Instructor 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.....*Assistant Professor of English*
A.B., Washington, 1910; A.B., Oxford, 1913.

George Edward Hawthorn.....*Instructor in Civil Engineering*
B.S. (C.E.) Washington, 1915.

Charles Louis Helmlinge.....*Assistant Professor of Romanic Languages*
B.Ph., Wallace College (Ohio), 1911; A.M., Washington, 1915.

William Bennett Henderson.....*Extension Lecturer on Foreign Trade*
A.B., Princeton Collegiate Institute, 1891; LL.B., Cumberland, 1892; LL.M., George Washington, 1906.

William Elmer Henry.....*Librarian and Director of the Library School*
A.B., Indiana, 1891; A.M., 1892.

Arthur Philip Herrman.....*Instructor in Architecture*
A.B., (Arch.) Carnegie Institute of Technology, 1920.

George Lisle Hoard.....*Instructor in Electrical Engineering*
B.S., (E.E.), Washington, 1917.

Rachel Emile 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.

Cecil Leonard Hughes.....*Lecturer on Education*
B.Ed., Washington, 1921; A.M., 1923.

Glenn Arthur Hughes.....*Assistant Professor of English and Dramatic Art*
A.B., Stanford, 1916; A.M., Washington, 1920.

Lilian Collison Irwin.....*Lecturer on Hygiene*
M.D., Cooper Medical College, 1898.

Walter Isaacs.....*Associate Professor of Fine Arts*
B.S., James Millikin, 1909; Academie Colorossi and Academie Moderne, Paris.

Burton Wakeley James.....*Associate in Dramatic Art*
Cornell; Emerson College of Oratory.

Arthur Rudolph Jerbert.....*Associate in Mathematics*
B.S., Washington, 1916; M.S., 1923.

Arlien 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.

Pamelia 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.....*Assistant Professor and 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.

Martha Koehne.....*Assistant Professor of Home Economics*
A.B., Ohio State, 1908; A.M., 1910.

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 Langenhan.....*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, 1893.

Jakob Aall Ottesen Larsen.....*Assistant Professor of History*
A.B., Luther College, 1908; A.M., Iowa, 1910; A.B., Oxford, 1914; A.M., 1920.

Frank Joseph Laube.....*Assistant Professor of Political Science*
A.B., Wisconsin, 1899; A.M., Washington, 1913.

Jane Sorrie Lawson.....*Associate in English*
A.M., St. Andrews (Scotland), 1906.

Karl Elias Leib.....*Assistant Professor of Business Administration*
A.B., Stanford, 1916; J.D., 1923.

Alonzo Victor Lewis.....*Associate in Modeling and Sculpture*

Howard Thompson Lewis.....*Professor of Economics and Dean of the College of Business Administration.*
A.B., Lawrence College, 1910; A.M., Wisconsin, 1911.

Sarah Virginia Lewis.....*Associate in Library Science*
University of Wisconsin Library School.

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.

Albert Lovejoy.....*Associate in Dramatic Art*
B.L.J., Emerson College of Oratory, 1924.

Paul Lovering.....*Lecturer on Journalism*
College of City of New York.

Henry Stephen Lucas.....*Assistant Professor of History*
A.B., Olivet, 1913; A.M., Indiana, 1915; Ph.D., Michigan, 1921.

George Andrew Lundberg.....*Instructor in Sociology*
A.B., North Dakota, 1920; A.M., Wisconsin, 1922; Ph.D., Minnesota, 1924.

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.

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.....*Instructor in Mechanical Engineering*
B.S., (M.E.), Washington, 1915; M.B.A., 1923.

Roderick Duncan McKenzie.....*Associate 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.....*Assistant Professor of Economics*
A.B., Washington, 1899; A.M., 1901; Ph.D., Wisconsin, 1909.

Bryan Towne McMinn.....*Instructor in Mechanical Engineering*
B.S., Oregon Agricultural College, 1918.

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.B.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.

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., 1899; M.L., Wisconsin, 1901.

Alfred Lawrence Miller.....*Instructor in Civil Engineering*
B.S., (C.E.), Washington, 1920.

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.

William Daniel Moriarty.....*Professor of Business Administration*
A.B., Michigan, 1904; A.M., 1905; Ph.D., 1909.

Robert Edouard Moritz.....*Professor of Mathematics*
B.S., Hastings, 1892; Ph.M., Chicago, 1896; Ph.D., Nebraska, 1901; Ph.N.D., Strassburg, 1902.

Florence May Morse.....*Instructor in Business Administration*
A.B., Colorado, 1910; A.M., 1912; Ph.D., Columbia, 1925.

Henry Clinton Kress Muhlenberg, Major, Air Service.....*Assistant Professor of Military Science and Tactics.*
Graduate, U.S. Military Academy, 1908; Graduate, Command and General Staff School, Fort Leavenworth, 1924.

Hermance Mullemeister.....*Instructor in Mathematics*
Phil.Cand., Royal University of Utrecht, Holland, 1910; Ph.D., 1913.

Lewis Irving Neikirk.....*Assistant Professor of Mathematics*
B.S., Colorado, 1898; M.S., 1901; Ph.D., Pennsylvania, 1903.

Kirsten Larssen Newberry.....*Associate in Physics*
B.S., Washington, 1919; M.S., 1924.

Harold Watson Nightingale.....*Instructor in Fisheries*
B.S., Massachusetts Institute of Technology, 1914; M.S. in Fisheries, 1925.

John Edward Nolan, 1st Lieut., Inf.....*Instructor in Military Science and Tactics*
A.B., St. Joseph's College, 1909.

James Matthew O'Connor, Jr.....*Editorial Secretary and Associate in Journalism*
A.B., Washington, 1921.

Caroline Haven Ober.....*Professor of Spanish*

Joseph Grattan O'Bryan.....*Lecturer on Law*
A.B., Jesuit College (Denver), 1893.

Frederick Arthur Osborn.....*Professor of Physics and Director of Physics Laboratories*
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 and Dean of the Graduate School*
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.

Maude Parson.....*Extension Associate in Public Health Nursing*
B.S., Washington, 1924.

Ambrose Patterson.....*Associate in Fine Arts*
Melbourne National Gallery, Victoria, Australia; Julien, Colorossi and Delecluse Academies, Europe.

Virginia Cunningham Patty.....*Assistant Professor of Home Economics*
Industrial Institute and College, Columbus, Mo., Shuguniak College, Miss.; Teachers College, Columbia.

Otto Patzer.....*Associate Professor of French*
B.L., Wisconsin, 1898; M.L., 1899; Ph.D., 1907.

Marjorie Whipple Peterson.....*Associate in Chemistry*
A.B., Colorado, 1917; M.S., Washington, 1924.

Frederick Powell.....*Lecturer on Gold Dredging*
E.M., Columbia.

Sargent Powell.....*Instructor in Chemistry*
B.S., M.S., Washington, 1916; Ph.D., Illinois, 1919.

Harold Priest, Captain, U.S.A.....*Assistant Professor of Military Science and Tactics*
Washington.

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., 1923.

Cecil Eden Quainton.....*Instructor in History*
A.B., Manitoba, 1918.

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.

John Charles Rathbun.....*Assistant Professor of Civil Engineering*
A.B., Washington, 1903; A.M., 1904; B.S., 1908; C.E., 1909.

William Reitzel.....*Instructor in English*
B.S., Haverford, 1922; Oxford, 1924.

Helen Nelson Rhodes.....*Instructor in Design*
Student, National Academy of Design; Columbia.

Oliver Huntington Richardson.....*Professor of European History*
A.B., Yale, 1889; A.M., Ph.D., Heidelberg (Germany), 1897.

George Burton Rigg.....*Associate Professor of Botany*
B.S., Iowa, 1896; B.Di., 1899; A.M., Washington, 1909; Ph.D., Chicago, 1914.

Alexander Crippen Roberts.....*Professor of Education and Director of 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 in Accounting*
C.P.A.

Moritz Rosen.....*Associate Professor of Music*
Graduate, Warsaw Conservatory, Russia.

Grant Duncan Ross.....*Instructor in Civil Engineering*
B.S., (C.E.), Washington, 1924.

William Russell.....*Instructor in Business Administration*
Certificate of Civil Engineering, Petrograd Institute of Roads of Communication; Certificate, Polytechnicum of Munich, 1901; M.B.A., Washington, 1925.

Primitivo Elio Rodriquer Sanjurjo.....*Acting Assistant Professor of Romanic Languages*
B.L., Instituto de Oreuse, 1894; LL.B., Salamanaca, 1900.

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.

Otto Harry Schrader, Major, C.A.C.....*Assistant Professor of Military Science and Tactics*
B.S., (E.E.), Purdue, 1908.

Waldo Semon.....*Instructor in Chemistry*
B.S., Washinton, 1920; Ph.D., 1923.

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.

Macy Milmore Skinner.....*Associate Professor of Business Administration*
A.B., Harvard, 1894; A.M., 1895; Ph.D., 1897.

Charles Wesley Smith....*Reference Librarian and Associate Professor of Library Economy*
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.

George McPhail Smith.....*Professor of Inorganic Chemistry*
B.S., Vanderbilt, 1900; Ph.D., Freiburg, 1903.

George Sherman Smith.....*Instructor in Electrical Engineering*
B.S., (E.E.), Washington, 1916; E.E., 1924.

Harry Edwin Smith.....*Associate Professor of Business Administration*
A.B., De Pauw, 1906; Ph.D., Cornell, 1912.

Stevenson Smith.....*Professor of Psychology*
A.B., Pennsylvania, 1904; Ph.D., 1909.

Elizabeth Soule.....*Associate in Nursing and Public Health*
Graduate, Malden, Massachusetts, Hospital School of Nursing, 1907.

Matthew Lyle Spencer....*Professor of Journalism and Director of the School of Journalism*
A.B., Kentucky Wesleyan, 1903; A.M., 1904; A.M., Northwestern, 1905; Ph.D., Chicago, 1910.

Ottis Bedney Sperlin.....*Lecturer on English*
A.B., Indiana University, 1903; Ph.M., Chicago, 1908.

Leslie Spier.....*Assistant Professor of Anthropology*
B.S., College of City of New York, 1915; Ph.D., Columbia, 1920.

Alfrida Storm.....*Associate in Design*
Columbia.

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.

Joseph Marion Taylor.....*Associate in Mathematics*
M.S., Adrian, 1886.

Thomas Gordon Thompson.....*Associate Professor of Chemistry*
A.B., Clark, 1914; M.S., Washington, 1915; Ph.D., 1918.

David Thomson.....*Professor of Latin and Dean of the College of Liberal Arts*
B.A., Toronto, 1892.

Arthur Truax.....*Lecturer on Business Administration*

George Wallace Umphrey.....*Professor of Romanic 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.

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.

Luella Venino.....*Associate in Music*
Leschetizky.

Edwin John Vickner.....*Professor of Scandinavian Languages*
A.B., Minnesota, 1901; A.M., 1902; Ph.D., 1905.

Bertha Almen Vickner.....*Associate in English*
A.B., Gustavus Adolphus, 1910; A.M., Washington, 1917.

Charles Edwin Weaver.....*Professor of Paleontology*
B.S., California, 1904; Ph.D., 1907.

John Weinzirl.....*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.

Earl Downs West.....*Associate in Mathematics*
A.B., Ohio State College, 1900; A.M., Adrian College, 1908.

Elmer James White.....*Instructor in Civil Engineering*
B.S. (M.E.), Washington, 1923.

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.

George Samuel Wilson.....*Professor of Mechanical Engineering*
B.S., Nebraska, 1906.

Hewitt Wilson.....*Assistant Professor of Ceramics*
Cer.Engr., Ohio State University, 1913.

William Ronald Wilson.....*Instructor in Psychology*
A.B., Washington, 1917; M.S., 1921; Ph.D., Washington, 1925.

Harry Maurice Wilten.....*Instructor in Mining and Metallurgy*
B.S., Illinois, 1921.

Roy Martin Winger.....*Associate Professor of Mathematics*
A.D., 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.....*Associate in English*
A.B., Oregon, 1918; A.M., 1919.

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.

Eugenie Hutchinson Worman.....*Associate in Fine Arts*
Pratt Institute.

Conrad Zimmerman.....*Lecturer on Timber Physics*
A.B., Washington, 1908.

BOARDS AND COMMITTEES

1925-1926

Administrative Boards

Board of Deans—J. T. Condon, Thomson, Magnusson, M. Roberts, Johnson, Winkenwerder, Padelford, Landes, Bolton, Glen, Lewis, Spencer, Cobb, Henry, A. C. Roberts, J. E. Gould, Haggett, Stone.

Summer Quarter.....Board of Deans and the Comptroller

Student Discipline.....Dean Landes, Lantz, Thompson, Guthrie, McIntyre

Schedule and Registration—Stevens, Stone, Wilson, Rigg, Tartar, Daniels, Sidey, Draper, Dresslar, Saunders, Wood, Carpenter, W. B. Jones, DeVries.

Committees of the Faculty

The President is *ex-officio* a member of each standing committee.

Admissions.....The Board of Deans

Art.....Isaacs, C. Gould, Edens

Athletics.....J. T. Condon, L. J. Ayer, Moritz, Dehn, May

Curriculum—Cobb, Johnson, Bolton, Loew, E. T. Clark, Spencer, Henry, Benson, L. J. Ayer, Corey, Patzer, Dakan, Wood, A. C. Roberts, Stone.

Graduation—Preston, Densmore, Goodspeed, Magnusson, Glen, Lantz, Kirkland, Williams, Stone.

Honors.....Padelford, Goodner, Carpenter, Loew, T. S. McMahon, Wood, J. E. Gould

Relations with Secondary Schools and Colleges—Bolton, Padelford, Frye, Frein, E. McMahon, Stone.

Library.....Henry, Thomson, Padelford, Frye, Richardson, Patzer, Loew, C. W. Smith

Publications.....Henry, Padelford, Magnusson, Spencer, Frye, Kennedy, O'Connor

Public Exercises.....Spencer, Winger, Glen, Lovejoy

Rules.....Benham, Goodner, Bell, More, Haggett, J. E. Gould, Stone

Special Students.....J. E. Gould, Stone, and dean of college concerned

Student Affairs—W. E. Cox, E. T. Clark, Padelford, McKenzie, Haggert, Draper, McMahon, Loew, Gross, and eight representatives of student organizations.

Student Welfare.....J. E. Gould, Haggett, Hall, Raitt, Dakan, Densmore

Rhodes Scholarships.....Densmore, Harrison, Larsen, Brown, Cole, Quainton

Washington Union.....Meany, J. T. Condon, Landes, Lewis, H. T. 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 entirely 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 1923 appropriated $2,631,983 for maintenance, operation and equipment, other than buildings. This was based on a rate of 1.10 of a mill a year, plus sundry receipts from property income and tuition.

The legislature also formally appropriated $439,700, the tuition and endowment receipts for the biennium for the permanent building fund.

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 subject 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

GROUNDS

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.

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 and Annex, Extension Building, Fisheries Buildings, Forest Products Laboratory (Dry Kiln, Wood Preserving Plant, Dry Shed), Foundry and Shop Building, Good Roads Building, Gymnasium, Health Service Building, Home Economics Hall, Hydraulics Laboratory, Library, Meany Hall, Mines Laboratory, Observatory, 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.

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.

Since the adoption of the group plan seven buildings have been erected, Home Economics, Philosophy, Commerce and Education Halls on the Liberal Arts Quadrangle. Locations for two additional buildings are provided to complete this quadrangle. The other three new buildings are adjacent to the Science group. They are Hydraulics, Forest Products and Mines Laboratories.

A portion of the Library is under construction, and a Women's Building is contemplated as funds become available. A new forestry building, the gift of Mrs. Alfred H. Anderson, known as the Alfred H. Anderson Memorial Hall, was completed during the last biennium.

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.

LIBRARY FACILITIES

The general library contains 145,547 volumes, and receives 969 current magazines. About 6,000 volumes are being added each year.

The library of the Law School contains more than 37,000 volumes. All books of both libraries are on open shelves and are accessible to all who care to use them.

In addition to the library facilities on the campus, the Seattle Public Library, containing approximately 350,000 volumes, is open to the University.

THE MUSEUM

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 is housed at present in the Forestry building, which was erected in 1909 for the Alaska-Yukon-Pacific Exposition. It is archaic Greek in type, its frame consisting of large columns of native fir trees, varying from five to six feet in diameter and from forty-two to fifty-four feet in height.

The museum collections number over 100,000 specimens with an approximate value of $200,000. Extensive exhibits are arranged showing the mineral, lumbering, and horticultural resources of the state and Alaska. An exhibit of local birds is arranged in systematic order and in groups showing their natural habitats. Elaborate habitat groups of large animals, including elk, bear, deer, mountain goats and cougar, mounted according to the latest methods of scientific taxidermy, have been installed or are in process of installation. The marine fauna are 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 are also 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 are arranged in tribal sequence. The Emmons Tlingit collection from Southeastern 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 Blonde 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 was recently added, through the work of a museum expedition under supervision of Director F. S. Hall. This material 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 var-

ious islands of Oceanica 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 are arranged in the exhibition rooms on the first floor from time to time, notices of which are published.

Reserve or Study Series.—The museum has 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 several hundred books and pamphlets on scientific subjects.

The herbarium of over 15,000 specimens contains a characteristic series of northwest flora virtually all of which are 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 4,500 specimens particularly representative of western Washington.

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

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, stream-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 thoroughly 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. For high heads, connection is made with an 8" pipe leading from an elevated tank 300 feet above the floor.

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 1500 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 of Civil Engineers.

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 of Testing Materials; other machines are similar to those used by the United States Office of Public Roads.

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

Electrical Engineering.—The dynamo laboratory contains twenty-one alternating and thirty-nine 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 operating and 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 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 1000 H.P., simple and compound, high speed and Corliss types, simple and compound; steam turbines; jet and surface condensers; injector; centrifugal pumps; steam calorimeters; indicators; calibrating appliances; oil testing machine; gas engines of stationary and automatic 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 Mahler 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.

FOREST AND LUMBERING LABORATORIES

Dendrology.—Individual lockers. A large herbarium and extensive collections of tree seeds, cones, bark specimens. An arboretum 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. 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 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 microscope with mechanical 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.

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.

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 sustained yield basis. It is expected that title to the tract will be completed this year.

JOURNALISM LABORATORIES

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

MINING, METALLURGICAL AND CERAMIC LABORATORIES

Mining, Ore Dressing, Metallurgy.—Mines Laboratory contains the offices, library, classrooms, laboratories, stockroom and balance room for assaying and general metallurgy, the mining and milling machinery, supplies, and stocks of ore, and a metallographic laboratory. A check-room with steel lockers and showers is provided. The building is of steel-frame and concrete construction, four stories in height, and designed in the Tudor-Gothic architecture of the more recent University buildings.

The metallurgical equipment includes standard size furnaces, pyrometers of several types, cyanide equipment, electrolytic apparatus, amalgamating devices, blowers, calorimeters, balances, sampling machines, and exhibits of metallurgical processes and products.

The mining equipment consists of air compressors, receivers, three rock drills, aerial tram, hand tools, full equipment for practice in blasting, loading and tamping models, and illustrative exhibits. The following ore dressing equipment is in use: breakers, rolls, feeders, screens, classifiers, jigs, concentrating tables, flotation cells of several types, magnetic separator, and accessory apparatus. Other pieces of equipment now on hand will be erected as soon as space is provided for them.

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. 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 equipped with thermo-couple, radiation, and optical pyrometers and fired with both gas and oil.

Coal Washing.—The coal section of Mines Laboratory consists of three floors surrounding an open well or hatch, a lower main floor, and a subbasement. 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 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 sludge tank, and a two-stage compressor which supplies air for the entire building.

PHARMACY AND MATERIA MEDICA LABORATORIES

Rooms devoted to pharmacy, materia medica and chemistry are located in Bagley hall, a three-story fireproof building. Special sections are provided for pharmacy students in general, organic and qualitative chemistry. Work in prescription practice receives special attention in a room constructed and arranged as a model prescription pharmacy. The materia medica room contains a museum of several hundred samples of official and unofficial crude drugs. One room is given to drug assaying and food analysis. The examination of official food and drug samples for the state is under direction of the dean of the College of Pharmacy in a well equipped laboratory devoted to this purpose. Pharmacy students taking botany, physiology and bacteriology have well equipped laboratories in Science Hall.

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 the Interior 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 the Bureau of Mines building, between Mines and Bagley Halls. At present the principal investigations being conducted by the station are in the treatment and uses of coal, and in ceramics. 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 smokeroom 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 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.

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, metallurgy and ceramics, (3) aeronautical engineering, (4) chemical engineering and industrial chemistry, (5) civil enginering, (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 the junior certificate, 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 present a junior certificate 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 laws 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 (46 credits), the degree of bachelor of science in library sicence is granted.

(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 science 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 qaurter 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

ADMISSION TO FRESHMAN STANDING

A graduate of a four-vear accredited secondary school, whose course has covered the requirements for entrance as outlined on pages 43-45 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,* 1925, *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.*

Scholarship Requirement.—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.

The following modified form of scholarship requirement, recommended by a committee of high school principals, has been adopted by the University:

Admission to the University shall be granted to recommended graduates of accredited four-year high schools who

(a) 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.)

(b) 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.)

(c) 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.)

Provision for Raising Grades.—If a graduate of an accredited secondary school fails to meet the scholarship requirement, he has the privilege of qualifying for admission either by (a) raising his grades by passing the regular "make-up" examinations of his school, or by (b) 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 48.)

Provisional Admission to the University may, on recommendation of the principal, be granted for one quarter to those applicants who

(a) Meet all specific University requirements, but

(b) Fail to meet any or all of provisions (a), (b), or (c) of the scholarship requirement, and

1. Show strong working traits, special interest, or talents as indicated in their applications and endorsed by the principal, and

2. 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.

REQUIREMENTS FOR ADMISSION

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirement outlined above and presents fifteen units* of credit, distributed as follows:

(a) 3 units of English.
(b) 1 unit of algebra.
(c) 1 unit of plane geometry.
(d) 3 units selected from one of the following groups (or 2 units if 3 units of mathematics are presented.)

**(1) Foreign language, either ancient or modern, (at least 2 units in one language; less than one unit will not be counted in any language).

(2) History, civics, economics (at least one unit to form a year of consecutive work in history.)

(3) Physics, chemistry, botany, zoology, general biology, physical geography, geology, physiology. (Less than one unit will not

*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 not less than thirty-six weeks.

**A student who has not taken in high school the amount of foreign language required for admission to the college he plans to enter, 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 Colleges of Science and Fine Arts, the foreign language requirement may be satisfied by two units or 20 credits in any one foreign language. For the College of Liberal Arts, by two units or 20 credits in one of the following: 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.

be counted in physics, chemistry, or general biology. No science will be counted as applying on this requirement unless it includes a satisfactory amount of laboratory work).

(e) 2 units in subjects presented in the above groups (1) - (3).

(f) 5 units selected from subjects accepted by an approved high school for its diploma. 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, except for admission to the Colleges of Business Administration and Fine Arts. For admission to the College of Business Administration, the University will accept a maximum of 8 units in vocational subjects, of which at least 4 units must be in commercial branches. If a student presents 8 such vocational units and 2 units in history, and fulfills requirements (a), (b), and (c), he will be given freshman standing in that college without being held for requirements (d) and (e). If the student is transferred later to another college, only 4 vocational units will be counted, and the student will be required to meet the requirements (d) and (e). For admission to the College of Fine Arts, the University will accept a maximum of 5 units in vocational subjects, provided not less than 2 units of the five are in fine arts subjects. If the student is transferred later to another college only 4 vocational units will be counted.

A candidate who fulfills these requirements will be admitted to freshman standing in any college of the University. ‡However, if he has not taken in high school certain subjects prescribed for admission to the college he may decide to enter, he must take them in the University, or if they are not offered in the University, he must take them in some accredited secondary school or with a tutor, as part of his authorized schedule of work. Such subjects, if taken in the University, may apply toward a degree, as far as elective courses make this practicable. In certain curricula, however, these subjects must be taken in addition to the prescribed subjects. A student entering without having satisfied such a requirement is required to register so that the requirement will be satisfied not later than the end of his fourth quarter of residence. A student failing to do this is ineligible for readmission until the requirement has been satisfied.

Entrance to freshman standing with condition is not permitted. Excess admission credit does not establish presumptive claim for advanced standing, unless the student has taken a graduate course in the high school of at least one semester.

SPECIFIC SUBJECTS RECOMMENDED FOR ADMISSION TO THE SEVERAL COLLEGES

Colleges of Liberal Arts and Science (General Courses)

3 units of English
1 unit of algebra.
1 unit of plane geometry.
**2 units in *one* foreign language.

College of Fine Arts

3 units of English.
1 unit of algebra.
1 unit of plane geometry.
**2 units in *one* foreign language.
1 unit in *one* of the following: physics, chemistry, botany, zoology.
1 unit in a history or ½ unit in U.S. history, and ½ unit civics.

‡In satisfying entrance requirements with college courses, a minimum of ten credits is counted as the equivalent of the entrance unit.

**A student who has not taken in high school the amount of foreign language required for admission to the college he plans to enter, 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 and Fine Arts, the foreign language requirement may be satisfied by two units or 20 credits in any one foreign language. For the College of Liberal Arts, by two units or 20 credits in one of the following: 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.

College of Business Administration

3 units of English.
1 unit of algebra.
1 unit of plane geometry.
2 units of history. (May include civics and economics.)
1 unit of typewriting.

Colleges of Engineering and Mines

3 units of English.
1½ units of elementary and advanced algebra.
1½ units of plane and solid geometry.
1 unit of physics.
½ unit of shopwork.

College of Forestry

3 units of English.
1½ units of elementary and advanced algebra.
1 unit of plane geometry.
1 unit of physics.

(Students planning to take Forestry are advised to take solid geometry and botany in high school.)

College of Pharmacy

Three-year Course

3 units of English.
1 unit of algebra.
1 unit of plane geometry.

Four-year Course

3 units of English.
1 unit of algebra.
1 unit of plane geometry.
††2 units in *one* foreign language.
1 unit in *one* of the following: physics, chemistry, botany, zoology, physiology, general biology (Must include satisfactory amount of laboratory work.)

College of Fisheries

3 units of English.
1 unit of algebra.
1 unit of plane geometry.

School of Law, Library School and School of Journalism

(See page 47.)

ACCREDITED SCHOOLS

The list of accredited secondary schools in the State of Washington is as follows for the year 1925-1926:

Aberdeen	Blaine	Cheney	Deming (Mt. Baker H.S.)
Adna	Bothell	Chewelah	Dixie
Albion (U. H.)	Bremerton (U. H.)	Chimacum	Doty
Almira	Bridgeport	Clarkston	Dryad
Anacortes	Brewster	Cle Elum	Duvall
Anatone	Buckley	Colfax	East Mill Plain (U. H.)
Arlington	Burlington (U. H.)	Colville (U. H.)	Eatonville
Asotin	Burton (U. H.)	Connell	Edison
Auburn	Camas	Coulee City	Edmonds
Battle Ground	Cashmere	Coupeville	Edwall
Bellingham	Castle Rock	Cowiche	Ellensburg
Whatcom	Centerville	Creston	Elma
Fairhaven	Centralia	Davenport	Endicott
Bickleton	Chehalis	Dayton	
Black Diamond	Chelan	Deer Park	

††A student who has not taken in high school the amount of foreign language required for admission to the college 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 Colleges of Science and Fine Arts and Pharmacy, the foreign language requirement may be satisfied by two units or 20 credits in any one foreign language. For the College of Liberal Arts, by two units or 20 credits in any one of the following: 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.

Entiat
Enumclaw
Ephrata
Everett
Fairfield
Fall City
Farmington
Ferndale
Fife
Foster
Friday Harbor
Garfield
Gig Harbor
Goldendale
Grandview
Granger
Granite Falls
Greenacres (Vera H. S.)
Hamilton
Hanford
Harmony
Harrington
Hartline
Hillyard
Hoquiam
Hunter
Ilwaco
Ione
Issaquah
Kalama
Kapowsin
Kelso
Kennewick
Kent
Kettle Falls
Kirkland (U. H.)
Kittitas (U. H.)
Klaber (Boltsfort H. S.)
La Conner
La Crosse
Lake Stevens
Langley
Latah
Leavenworth
Lebam
Lind
Lower Naches
Lynden
Mabton
Malden
Mansfield
Maple Valley
Marcus
Marysville
Mead
Medical Lake
Menlo
Meridian (U. H.)
Kent, R. 1
Meridian, Ferndale, R. 1.
Millwood
Molson
Monroe
Montesano
Morton
Mossy Rock
Mount Vernon (U. H.)
Moxee
Naches City
Napavine
Naselle
Newport
Northport
Nooksack (Victory H. S.)
North Bend
Oakesdale
Oak Harbor
Oakville
Odessa
Okanogan
Olympia
Omak
Oroville
Orting
Otis Orchard
Outlook
Pateros
Palouse
Pasco
Pe Ell
Pomeroy
Port Angeles
Port Orchard (So. Kitsap H. S.)
Poulsbo
Port Townsend
Prescott
Prosser
Pullman
Puyallup
Quincy
Rainier
Raymond
Reardan
Redmond
Renton
Republic
Richland
Richmond Beach
Ridgefield
Ritzville
Riverside
Rochester
Rockford
Rosalia
Roslyn
Roy
Seattle
Ballard
Broadway
Franklin
Garfield
Lincoln
Queen Anne
Roosevelt
West Seattle
Sedro-Woolley
Selah
Sequim
Shelton
Skykomish
Snohomish
Snoqualmie
South Bend
Spangle
Spokane
Lewis and Clark
North Central
Orchard Avenue
Sprague
Stanwood
Steptoe
Stevenson
St. John
Sultan (U. H.)
Sumas
Sumner
Sunnyside
Tacoma
Lincoln
Stadium
Tekoa
Tenino
Thorpe
Tieton
Toledo
Tonasket
Tolt (U. H.)
Toppenish
Touchet
Twisp
Two Rivers
Vader
Valleyford
Vancouver
Vashon
Waitsburg
Walla Walla
Wapato
Washougal
Washtucna
Waterville
Waverly
Wenatchee
White Bluffs
White Salmon
Wilbur
Wilson Creek
Winlock
Winslow
Woodland
Yacolt
Yakima
Yelm
Zillah

II. Other Secondary Schools in Washington

Annie Wright Seminary, Tacoma.
Aquinas Academy, Tacoma.
Forest Ridge Convent, Seattle (provisional).
Gonzaga High School, Spokane.
Holy Names Academy, Seattle.
Holy Names Academy, Spokane.
Immaculate Conception High School, Seattle.
Moran School, Rolling Bay.
Pacific Lutheran Academy, Parkland.
Providence Academy, Vancouver.
Seattle Pacific College, Seattle (academy)
Seattle College, Seattle.
Spokane College, Spokane (preparatory department) (provisional).
St. Dominic's Academy, Everett.
St. James Cathedral High School, Seattle (provisional).
St. Martin's College, Lacey (high school department).
St. Nicholas School, Seattle.
St. Paul's Academy, Walla Walla (provisional).
Walla Walla College Academy, Wall Walla (provisional).
Y. M. C. A., Seattle (high school department) (provisional).

III. Schools Outside of Washington

Graduates of secondary schools 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.

Graduates of four-year high schools in Alaska recommended by the Commissioner of Education for Alaska will be accepted on the same basis as graduates of accredited schools in Washington, until further notice.

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 and the School of Journalism.—Requirements for admission to the School of Law and the School of Journalism 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.

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

Library School.—Students who have qualified for senior standing in the College of Liberal Arts or the elective curricula of the College of Science, having earned 145 credits including ten credits in military science or physical education and all required work except the completion of a major, may be admitted to senior standing in the Library School as candidates for the degree of bachelor of science in library science, the requirements for which can ordinarily be fulfilled in one academic year.

Graduate students who hold baccalaureate degrees from any college or university in good standing and whose undergraduate work has included the equivalent of at least 20 college credits in each of two modern foreign languages, German and French preferred, may be admitted to the Library School as candidates for the degree of bachelor of science in library science, the requirements for which can ordinarily be fulfilled in one academic year.

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.—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 ratio of 45 quarter hours of lump credit for each full year of work completed at the normal school; the minimum amount accepted as a year's work being thirty-six weeks of attendance with at least forty-five quarter credits; not more than nineteen of which shall have been earned in one quarter.

In fulfilling the requirements of university curricula that allow a large number of elective hours, such as that of the School of Education, normal school 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.

Claims for exemption from specific requirements, based on work taken in the normal school, shall be passed on by the registrar and the dean of the college.

A minimum of 36 quarter hours earned in three full quarters 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.

ADMISSION BY EXAMINATION

Applicants for admission by examination are required to pass, with grades above 80 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.

Entrance examinations are held at the registrar's office on the following dates: July 22, 23, 24; September 23, 24, 25; and December 16, 17, 18, 1925; March 22, 23, 24; June 9, 10, 11; and July 21, 22, 23, 1926. 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 Sciences except Physics Trigonometry	Economics	Solid Geometry
		Plane Geometry	French
		Spanish	Commercial
		History other than U.S.	Vocational

Entrance examinations will also be held on request at the following points in the state, on July 22, 23, and on September 3, 4, 1925:

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.

EXAMINATIONS FOR EXEMPTION IN ENGLISH

The department of English gives an examination in English composition for students who wish to attempt it, with the view of being excused from all or a part of the required course in college composition. Only those whose preliminary training has been superior should present themselves for this examination, which will be held on the same dates as the regular entrance examinations for the autumn quarter.

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 the 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 10 but lacks the specific subject requirements for admission to freshman standing he may be admitted as an unclassified student on recommendation of his principal. 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 desiring 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.

Registration as a special student is for *one quarter only.* Re-registration will be refused if the student has not shown satisfactory earnestness and definiteness of purpose, if his work has not been good or if he has not complied with conditions prescribed by the committee on special students.

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.

☞ *That applicants for admission as special students may receive full consideration, their applications should be filed with the registrar four weeks before the beginning of the quarter in which the applicant wishes to attend the University. Applications for the autumn quarter should be filed not later than August* 15.

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.

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.

REGISTRATION

Registration for all students for the autumn quarter will take place on Monday, Tuesday and Wednesday, September 28, 29 and 30, 1925; for the winter quarter on Monday, January 4, 1926; for the spring quarter, Monday, March 29, 1926, and for the summer quarter, Tuesday, June 15, 1926.

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 19 hours (exclusive of drill or physical training).

Rule 5. No student may be registered for more than 19 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.

MEDICAL EXAMINATIONS

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

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.

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, but they must pay one dollar at registration for the infirmary fund for the year.

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.

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.

Refunding Fees.—Tuition and other general fees are not returnable except in case of sickness or causes entirely beyond the control of the student. No portion of the returnable fees shall be returned for voluntary or enforced withdrawal after thirty (30) days from the date of registration of the student. 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 will be charged all persons enrolling as auditors.

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

Excess Hour Fee.—A fee of $1 per credit per quarter will be charged each student registering for excess hours.

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. This fee is in lieu of the former library fee of five dollars which has been abolished. Law majors pay ten dollars ($10) a quarter as a special law library fee.

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.

Marine Biological Station Tuition.—Fifteen dollars ($15), of which twelve dollars ($12) is for tuition and three dollars ($3) for laboratory fee.

Military Uniform Deposits.—Each student who is held for military drill is required to deposit $12 before he draws his uniform. Ten dollars ($10)

of this amount is returnable upon the presenting of proper clearance papers from the military headquarters; the two dollars ($2) is retained as a breakage fee. 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 will be charged for all examinations outside the regular schedule.

Late Registration.—A penalty of $2 is imposed 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 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.

LABORATORY FEES AND DEPOSITS

The following laboratory fees and deposits will be collected quarterly during the ensuing year 1925-1926. With few exceptions, these fees are not returnable in whole or in part, and in no case can any rebate be allowed after 35 days from date of registration: (Fees and deposits listed below apply individually to each numbered course as segregated under the various subjects.)

Anatomy—105, 106, 107	$ 3.00
104, 108	5.00
101, 102, 103	7.50
Architecture—112, 113, 114	1.00
54, 55, 56, 104, 105, 106, 154, 155, 156	4.00
Astronomy—53 . .	1.00
Bacteriology — Pathology—103	1.00
4, 101, 102	4.00
104, 105, 106, 111, 112	5.00
Botany—1, 2, 3, 11, 12, 13, 14, 53, 70, 101, 111, 140, 141, 142, 180, 181, 182, 190, 191, 192, 200, 233, 247, 250, 251, 271, 272, 273	2.00
105, 106, 107, 119, 143, 144, 145, 279, 280	3.00
Ceramics—180 . .	5.00
110, 131, 132, 133	10.00
121, 122, 123	12.00
Chemistry—All courses except 52, 173, 190, 191, 199, 221, 222, 223, 231, 232, 233	6.50
176, 177, 178, 204, 250 to be arranged.	
Breakage ticket	5.00
Key	.50
Civil Engineering—4, 22, 23, 24, 27, 30, 38, 55, 56, 126, 142, 167	2.00
Dramatic Art—101, 102, 103	1.00
104, 105, 106	3.00

Economics and Business Administration—All courses $1.00 except those listed below:
15, 16 Typewriting, and 18, 19 Shorthand 10.00
81, 82, 83 Secretarial and Office Training 5.00

Education—All courses except those listed below ..... .50
160D, 160Z, 196, 197, 198 ..... 1.50
150 ..... 2.50

Electrical Engineering—132, 141, 181, 196, 198 ..... 2.00
102, 110, 112, 122, 162, 164 ..... 4.00

Engineering Shops—52, 53, 54, 55, 105, 106, 107, 115, 120 ..... 2.00

Fisheries—53, 54, 55, 101, 102, 103, 104, 105, 140, S.C. 4, S.C. 8
S.C. 9, S.C. 11, S.C. 12, S.C. 13 ..... 3.00
107, 108, 130, S.C. 7 ..... 4.00
150, 151, 152, 201, 202, 203 to be arranged.

Forestry—1, 5, 51, 52, 53, 57b, 58, 101, 102, 104, 105 ..... 2.00
161, 162, 163, 187, 188, 213, 214, 215 ..... 3.00

General Engineering—1, 21 ..... 2.00

Geology—10, 11, 112 ..... 1.00
1, 2, 21, 105, 120, 123, 124, 131, 132 ..... 2.00

Home Economics—8, 43, 101, 102, 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
204, 205, 206, $2.00 per credit hour.
207, 208, 209, $1.00 per credit hour.

Journalism—1, 61, 90, 91, 92, 128, 135, 145, 160 ..... 1.00
51, 101, 115, 120, 130, 131, 133, 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 except Course 1 per quarter 1.50

Lockers—Anatomy, Chemistry, Education, Engineering, Home Economics, and Mines Building per year ..... .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 ..... 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:
Adams, Canfield, Allen, Oliver, 1 lesson a week 15.00
2 lessons a week 30.00
Venino, Van Ogle, Rosen, Mabon, Lynch, Kirschner, Wood, Bogardus, 1 lesson a week 22.00
2 lessons a week 44.00
Glen, 1 lesson a week 27.00
2 lessons a week 54.00

Piano practice room, an hour a day for the quarter	3.00
(Key Deposit)	1.00
Pipe Organ, an hour a day for the quarter	12.50
(Key Deposit)	1.00
Nursing—5	1.00
Painting, Sculpture and Design—5, 6, 7, 9, 10, 11	1.00
53, 54, 55, 56, 57, 58, 65, 66, 67, 103, 104, 157, 158	2.00
72, 73, 74, 107, 108, 109, 116, 117, 118, 122, 123, 124, 160, 161, 162, 175, 176, 177, 207, 208, 209, 260, 261, 262	3.00
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, Fees to be arranged.	
Physical Education—All P.E. Courses, or combination of P.E. Courses other than those listed below	.50
174, 175 (Swimming)	2.50
87, 88 (Golf)	3.00
All other P.E. Courses, or combination of P.E. Courses combined with 87, 88, or 174, 175—Special Fee plus the regular $.50.	
Physics—1, 2, 3, 50, 51, 89, 90, 97, 98, 99, 103, 105, 113, 160, 170, 175, 190, 205, 206	2.00
114	4.00
54, 115	5.00
167, 168, 169 to be arranged.	
Psychology—1	1.00
Zoology and Physiology—1, 2, 3, 4, 5, 6, 7, 101, 102, 106, 107, 108, 111, 121, 127, 128, 155, 156, 157	2.00
115	2.50
54, 55, 125, 126	3.50
151, 152, 153	4.00
201, 202, 203 to be arranged.	

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 be addressed tto 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.—A health service is maintained by the University in conjunction with the Associated Students. Ten per cent of the fees collected by the Associated Students is assigned to the health fund, for the maintenance of an infirmary containing medical offices for both men and women, nurses' offices and quarters, and 40 beds. The University provides the

building and equipment, a corps of one physician and two nurses. Medical advice and office treatment are available during school hours.

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 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. If serious illness develops he is transferred to a Seattle hospital of his choice, and further responsibility of the University health service ceases. 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 64.)

Student Help.—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 for anyone to enroll unless he has sufficient funds to maintain him for a quarter, minimum of $200 Students expecting to earn a portion of their support should not register for a full schedule of studies.

ACADEMIC 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 prepares reports on students failing in scholastic work, arranges schedules, helps to obtain students part-time employment and examines housing conditions. A list of approved boarding places is kept in his office.

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, and acts as counselor to the officers of organizations for women.

Bureau of Appointments.—This office assumes the responsibility of all placement work. It is desirable that every student have a conference with the secretary sometime before graduation. The office is available to undergraduates for the purpose of advisement. A great mutual service may be rendered by reporting to this office any positions open that would be of interest to University graduates.

DEGREES

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

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, 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 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 typewritten 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 departtment as he thinks eligible for honrs. Honors are not awarded to any student in more than one subject.

NORMAL DIPLOMAS

The University 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.

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 182 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.

FELLOWSHIPS, SCHOLARSHIPS AND AID

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 in Mining and Metallurgy.—The College of Mines of the University in cooperation with the United States Bureau of Mines offers four 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 candidates 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 May 15, 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 $700 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 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.

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.

Rosenberg Scholarship.—A scholarship of $200, known as the "Samuel Rosenberg Scholarship, endowed in loving memory by Ella S. Rosenberg, his wife," is open to graduate students in French. In making this award, account will be taken of the scholarship, personality and needs of the candidates.

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.

Washington Alumnae Scholarship.—The Washington Alumnae offer an annual scholarship of $100 to be awarded to a woman member of the Junior Class on the basis of scholarship, activity in student affairs, personal character and wholesome influence in university life.

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.

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 Climax Locomotive Company Scholarship in Forestry.—The Seattle branch of the Climax Locomotive Co. offers an annual scholarship of $100. The award is to be made on the basis of self-dependence, scholarship and wholesomeness of influence to a student majoring in forestry.

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.

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.

The 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.

The E. F. Blaine Prize in Oratory.—Mr. E. F. Blaine offers an annual cash prize of $100 to the winner in an intercollegiate oratorical contest of the universities of the northwest.

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 "Equality."

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

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 Burke China Club Prize.—The Burke China Club prize of $25 is awarded annually for the best essay on some subject related to the Chinese Literature, History or Language. Competitors are restricted to those who have had at least one term's work in Chinese Literature, History or Language.

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 published in *The University of Washington Daily* during the current year.

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

The Kellogg Prize in Architecture.—The William W. Kellogg prize of $50 is awarded annually for competitive work in architecture and design and is open to juniors and seniors.

The Judge Thomas Burke Prizes in French.—Judge Thomas Burke offers two cash prizes, one of $15 and one of $25, for general excellence in French.

The Frank Buty Prize.—The Frank Buty prize of $20 is offered annually 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 first prize of $75 and a second prize of $50 to the two students in the University who attain distinction in second-year 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."

The N. Paolella Medal.—Mr. N. Paolella, of Seattle, offers a gold medal each year, beginning with 1913, for a period of ten years, to the student doing the best work in Italian.

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 of color in a building.

The Carstens and Earles Prizes.—The Carstens and Earles prizes of $100, $50 and $25 each, are open to undergraduate students in the College of Business Administration for the best essays on "What Basis Can Farm Loans of an Investment Character be made Secure and Beneficial."

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 or the dean of women as the case may be for full information.

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 each term; together with one representative 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 terms.)

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 1923-24 the business transacted amounted to $300,000. The office of the graduate manager is in room 101 Education Hall. The department has seventeen employees and the annual payroll is $35,000.

The Board employs a manager of the A.S.U.W. bookstore. In 1924 the sales amounted to $188,000

Christian Association.—The Young Men's Christian Association is open to membership for all men students and members of the faculty. The Association, in cooperation with the campus Y.W.C.A., publishes the "W" book or student hand-book for students. It is a Christian service organization and will assist University men in finding homes, part-time employment, and church affiliation.

The new building at the entrance to the campus on east forty-second street is designed for the use of all men of the University whether they are members of the organization or not.

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, Amonii Socii, Art Club, Business Administration Council, Chemical Club, 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.—Canadian Co-ed Club, Chinese Club, Christian Science Society, Cosmopolitan Club, Daughters of the American Revolution, Filipino Club, Japanese Club, Kla-How-Yah, Marilla Hutchins Club, Mountaineers Club, Newman Club, Menorah Society, Patton Club, Patrons' Association, Service Club of Washington, 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, Tolo Club.

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

Professional Fraternities.—Alpha Delta Sigma, Alpha Kappa Delta, Alpha Kappa Psi, Atelier, Attic and Easel, Beta Alpha Psi, Delta Theta Phi, Gamma Epsilon Pi, 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 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,Mamooks, Minor W Club, Girls' Rifle Club, Radio Club, Red Domino, Tau Kappa Alpha, Personnel Officers' Society, University of Washington Band, Kappa Kappa Psi, Varsity Boat Club, Women's Athletic Association, Women's W Club.

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.

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 of 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. 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. The deans, together with the physical director, or commandant, as the case may be, have authority to allow a student to substitute the proper corresponding amount of scholastic work for gymnasium or military science when it seems advisable. To be valid, substitutions must be signed by the dean concerned and the physical director or commandant, and must be filed in the registrar's office.

Rule 17. It shall be the duty of every student of whom military science or physical training is required to see that he is properly registered for the course, and to report for instruction. The fact that a student was not formally registered does not excuse him from attending. Students who are required to take military science or physical training, but fail to report for work, will, with the approval of the president, be excluded from all classes. The responsibility of complying with the regulations regarding military science and physical training rests entirely with the student.

Rule 18. (a) Men who are to be at the University for only one year, preparing for entrance into some other institution, e. g., a medical school, may be permitted to postpone the course, with the understanding that if they register in the University in succeeding years, they shall be required to take the full course.

(b) Men who, because of physical condition, age, civil status, or pecuniary circumstances necessitating outside work, should not, in the judgment of their dean, be required to take the work in military science, may be permitted by the commandant of cadets to substitute physical training or scholastic work therefor.

Rule 19. Each request for permission to postpone, or substitute for the regular course in the department of military science and tactics, shall be acted upon by the commandant of cadets, on the recommendation of the dean concerned. Each grant of permission must be filed in the registrar's office.

Rule 20. Only "short courses" students shall be exempt from the requirements in military science and physical training.

Rule 21. The dean concerned and the physical director together may grant permission to a student to postpone, or substitute scholastic work for the required work in physical training. The grant of permission must be filed in the registrar's office.

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 (athletics, music, debate, etc.) shall be passed on by the dean of men and the dean of women respectively.

SCHOLARSHIP STANDING

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 two or more subjects, aggregating more than one-third of his registered hours, shall be dropped.

(d) The cases of all students registered for less than a normal schedule who are failing in more than one-third of their work, shall be reported to the board of deans for final action.

(e) Any student who, at the end of any academic year, 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.

(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 re-instated, 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 two-thirds of a normal schedule 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

*These grades correspond approximately to the old marking scheme as follows: A, 100-96; B, 95-86; C, 85-76; D, 75-70; E, 70-0.

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 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 " "
3	1.00 " "
4	.90 " "
5	.80 " "
6	.70 " "
7-15	5.00 " 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 two-thirds of the normal work 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) Credits or provisional credits for work taken to remove entrance conditions may not be counted.
(d) 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.
(e) Student members of the Board of Control 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.
(f) 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.
(g) 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.

4. 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 varticipation. 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 first 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. Credits or provisional credits for work taken to remove entrance conditions and not counted as college credit may not be applied. (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 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*
David Thomson, B.A. (Toronto) ..... *Professor of Latin; Dean of the College of Liberal Arts*
Fred Carlton Ayer, Ph.D. (Chicago) ..... *Professor of Education*
Eric Temple Bell, Ph.D. (Columbia) ..... *Professor of Mathematics*
Allen Rogers Benham, Ph.D. (Yale) ..... *Professor of English*
Frederick Elmer Bolton, Ph.D. (Clark) ..... *Professor of Education; Dean of the School of Education.*
Herbert E. Cory, Ph.D. (Harvard) ..... *Professor in Liberal Arts*
Pierre Joseph Frein, Ph.D. (Johns Hopkins) ..... *Professor of Romanic Languages*
Herbert Henry Gowen, F.R.G.S., M.R.S.A., D.D. (Whitman) ..... *Professor of Oriental Languages and Literature.*
Howard Thompson Lewis, A.M. (Wisconsin) ..... *Professor of Economics and Dean of the College of Business Administration.*
Charles E. Martin, Ph.D. (Columbia) ..... *Professor of Political Science*
Edmond S. Meany, M.L. (Wisconsin) ..... *Professor of History*
William Daniel Moriarty, Ph.D. (Michigan) ..... *Professor of Economics and Business Administration.*
Robert Edouard Moritz, Ph.D. (Nebraska), Ph.n.D. (Strassberg) ..... *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 C. 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 Romanic Languages*
Edwin John Vickner, Ph.D. (Minnesota) ..... *Professor of Scandinavian Languages*
Howard B. Woolston, Ph.D. (Columbia) ..... *Professor of Sociology*
Allen Fuller Carpenter, Ph.D. (Chicago) ..... *Associate Professor of Mathematics*
Edward Godfrey Cox, Ph.D. (Cornell) ..... *Associate Professor of English*
Curt John Ducasse, Ph.D. (Harvard) ..... *Associate Professor of Philosophy*
William H. George, Ph.D. (Harvard) ..... *Associate Professor of Political Science*
Dudley David Griffith, Ph.D. (Chicago) ..... *Associate Professor of English*
Charles Goggio, Ph.D. (Wisconsin) ..... *Associate Professor of Romanic Languages*
Edwin Ray Guthrie, Ph.D. (Pennsylvania) ..... *Associate Professor of Psychology*
Roderick Duncan McKenzie, Ph.D. (Chicago) ..... *Associate Professor of Sociology*
Edward McMahon, A.M. (Wisconsin) ..... *Associate Professor of American History*
Loren Douglas Milliman, A.B. (Michigan) ..... *Associate Professor of English*
Otto Patzer, Ph.D. (Wisconsin) ..... *Associate Professor of French*
Thomas Kay Sidey, Ph.D. (Chicago) ..... *Associate Professor of Latin and Greek*
Macy Milmore Skinner, Ph.D. (Harvard) ..... *Associate Professor of Economics and Business Administration.*
Roy M. Winger, Ph.D. (Johns Hopkins) ..... *Associate Professor of Mathematics*
Addie Jeannette Bliss, A.M. (Columbia) ..... *Assistant Professor of Home Economics*
Ford Keeler Brown, A.B. (Washington) ..... *Assistant Professor of English*
Sereno Burton Clark, Ph.D. (Harvard) ..... *Assistant Professor of Latin and Greek*
Grace Goldena Denny, A.M. (Columbia) ..... *Assistant Professor of Home Economics*
Harvey Bruce Densmore, B.A. (Oxford) ..... *Assistant Professor of Greek*
Louis Peter DeVries, Ph.D. (Wisconsin) ..... *Assistant Professor of Romanic Languages*
August Dvorak, Ph.D. (Minnesota) ..... *Assistant Professor of Education*
Ernest Otto Eckelman, Ph.D. (Heidelberg) ..... *Assistant Professor of German*

George Irving Gavett, B.S. (Michigan) ..... *Assistant Professor of Mathematics*
Joseph Barlow Harrison, B.A. (Oxford) ..... *Assistant Professor of English*
Charles Louis Helmlinge, A.M. (Washington) ..... *Assistant Professor of Romanic Languages*
Glenn Arthur Hughes, A.M. (Washington) ... *Assistant Professor of English and Dramatic Art*
Martha Koehne, A.M. (Ohio State) ..... *Assistant Professor of Home Economics*
Jakob A.O. Larsen, M.A. (Oxford) ..... *Assistant Professor of History*
Frank Laube, A.M. (Washington) ..... *Assistant Professor of Political Science*
Henry Lucas, Ph.D. (Michigan) ..... *Assistant Professor of History*
Theresa Schmid McMahon, Ph.D. (Wisconsin) ..... *Assistant Professor of Economics and Business Administration.*
Lewis I. Neikirk, Ph.D. (Pennsylvania) ..... *Assistant Professor of Mathematics*
Virginia C. Patty ..... *Assistant Professor of Home Economics*
Primitivo E. R. Sanjurjo, LL.B. (Salamanca) ..... *Acting Assistant Professor of Romanic Languages.*
Leslie Spier, Ph.D. (Columbia) ..... *Assistant Professor of Anthropology*
Curtis Talmadge Williams, Ph.D. (Clark) ..... *Assistant Professor of Education*
Read Bain, A.M. (Oregon) ..... *Lecturer on Sociology*
Josef W. Hall, A.B. (Columbia College) .... *Lecturer on Oriental Languages and Literature*
Cecil L. Hughes, A.M. (Washington) ..... *Lecturer on Education*
Otis Bedney Sperlin, Ph.M. (Chicago) ..... *Lecturer on English*
Iva Buchanan, A.M. (Washington) ..... *Associate in History*
Fernand Cattelain, A.M. (Baylor) ..... *Associate in Romanic Languages*
Kenneth Cole, B. Lit (Oxford) ..... *Associate in Political Science*
Clyde Myron Cramlet, M.S. (Washington) ..... *Associate in Mathematics*
Ebba Dahlin, A.M. (Washington) ..... *Associate in History*
Amy Violet Hall, A.M. (Washington) ..... *Associate in English*
Rachel Hamilton, A.M. (Washington) ..... *Associate in French*
Arthur Jerbert, M.S. (Washington) ..... *Associate in Mathematics*
Arlien Johnson, A.M. (Columbia) ..... *Associate in Sociology*
Pamelia 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*
Lurline Simpson, A.M. (Washington) ..... *Associate in French*
Joseph Marion Taylor, M.S. (Adrian) ..... *Associate in Mathematics*
Bertha Almen Vickner, A.M. (Washington) ..... *Associate in English*
Eleanor Wesner, A.M. (Northwestern) ..... *Associate in German*
Earl D. West, A.M. (Adrian) ..... *Associate in Mathematics*
Sophus Keith Winther, A.M. (Oregon) ..... *Associate in English*
Ralph Mason Blake, Ph.D. (Harvard) ..... *Instructor in Philosophy*
Rufus G. Breland, A.B. (Chattanooga) ..... *Instructor in English*
Martha Estella Dresslar, M.S. (Columbia) ..... *Instructor in Home Economics*
George Andrew Lundberg, Ph.D. (Minnesota) ..... *Instructor in Sociology*
Ruth M. Lusby, A.M. (Columbia) ..... *Instructor in Institutional Management*
Hermance Mullemeister, Ph.D. (Utretcht) ..... *Instructor in Mathematics*
Cecil Eden Quainton, B.A. (Manitoba) ..... *Instructor in History*
William Reitzel, B.A. (Oxford) ..... *Instructor in English*
Henry Stager, Ph.D. (California) ..... *Instructor in Mathematics*
Walter Bell Whittlesey, A.M. (Washington) ..... *Instructor in French*
William Griffith, LL.B., M.A. (Washington) ..... *Instructor in Psychology*

James George Arbuthnot, B.S. (Kansas State College) ..... *Director of Physical Education for Men.*
Irving Mackey Glen, A.M. (Oregon) ..... *Professor of Music; Dean of the College of Fine Arts.*
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) ..... *Associate in Dramatic Art*
Frederick Arthur Osborn, Ph.D. (Michigan) ..... *Professor of Physics*
George Burton Rigg, Ph.D. (Chicago) ..... *Associate Professor of Botany*
Edwin James Saunders, A.M. (Harvard) ..... *Assistant Professor of Geology*
George McPhail Smith, Ph.D. (Freiburg) ..... *Professor of Inorganic Chemistry*

GENERAL STATEMENT

The College of Liberal Arts provides instruction in languages, education, economics and business administration, history, mathematics, philosophy, political science, psychology, sociology, and anthropology. 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.

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 what they must do to be granted lower division standing and later their 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.

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 may be found on pages 43-45.

Freshman Standing.—Freshman standing in the College of Liberal Arts is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements (page 42) and presents fifteen units* of credit, distributed as follows:

(a) 3 units of English.

(b) 1 unit of algebra.

(c) 1 unit of plane geometry.

**(d) 2 units in *one* foreign language.

(e) 3 units selected from one of the following groups (or 2 units if 3 units of mathematics are presented).

**(1) Foreign language, either ancient or modern, (at least 2 units in one language; less than one unit will not be counted in any language).

(2) History, civics, economics (at least one unit to form a year of consecutive work in history).

(3) Physics, chemistry, botany, zoology, general biology, physical geography, geology, physiology. (Less than one unit will not be counted in physics, chemistry, or general biology. No science will be counted as applying on this requirement unless it includes a satisfactory amount of laboratory work).

(f) 2 units in subjects presented in the above groups (1), (2), (3).

(g) 5 units selected from subjects accepted by an approved high school for its diploma. 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.

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*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.

**If a student has not taken in high school the amount of foreign language required for admission to the college, 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 Liberal Arts the foreign language requirement may be satisfied by two units or 20 credits in one of the following: 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.

‡If a student has not taken in high school certain subjects prescribed for admission to the College of Liberal Arts he must take them in the University, or if they are not offered in the University, he must take them in some accredited secondary school or with a tutor, as part of his authorized schedule of work. Such subjects, if taken in the University, may apply toward a degree, as far as elective courses make this practicable. A student entering without having satisfied a specific requirement is required to register so that the requirement will be satisfied not later than the end of his fourth quarter of residence. A student failing to do this is ineligible for readmission until the requirement has been satisfied.

Entrance to freshman standing with condition is not permitted. Excess admission credit does not establish presumptive claim for advanced standing, unless the student has taken a graduate course in the high school of at least one semester.

The student expecting to enter the College of Liberal Arts is advised to take as many as possible of the subjects specified on a succeeding page among "Requirements of the Lower Division," under group 2, "Subjects Required Either in High School or the First Two Years of College." He should note paragraph 4 on the same page entitled, "Subjects Conditionally Required in the First Two Years of College." Careful observance of these paragraphs will furnish a more complete preparation for college work, and will give the student correspondingly greater freedom of election in college.

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 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 and 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.

A minimum of three full quarters in residence, with completion of 36 hours of work, 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 College of Liberal Arts, may find it necessary to offer more than the usual 180 scholastic credits for the degree of bachelor of arts.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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. (See V on page 77.)

I. MAJOR AND GROUP REQUIREMENTS

(a) 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.

‡In satisfying entrance requirements with college courses, a minimum of ten credits is counted as the equivalent of the entrance unit.

Students should consult with the head of the proper department before registering for courses in their prospective major.

(b) The number of credits in the major and any other single department combined must not exceed 96 (except that when English is combined with the major department for the purpose of this total, credits in English 1-2 may be disregarded.)

(c) 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:

Group 1. Language and Literature.—Classical languages and literature, English, German, Oriental languages and literature, Romanic languages and literature, Scandinavian.

Group 2. Philosophical.—Anthropology, economics and business administration, education, history, mathematics, philosophy, political science, psychology, sociology.

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

Liberal Arts students majoring in Economics and Business Administration must take courses 160 and 168 together with at least 26 credits in courses from the following list:

1. General Economics
2. Applied Economics
57. Money and Banking
58. Risk and Risk Bearing
61. Social and Economic Standards of Living
70. Economics of Marketing and Advertising
104. Economics of Transportation
105. Business Organization
121. Corporation Finance
123. Investment Analysis
127. Foreign Exchange and International Banking
159. Advanced Money and Banking
161. American Labor Problems
162. European Labor Problems
165. Labor Legislation
181-182-183. Economics of Consumption
166. Women in Industry
169. Economics of Distribution

II. SCHOLARSHIP REQUIREMENTS

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

III. REQUIREMENTS OF THE LOWER DIVISION

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 college years, and until he has attained a minimum of 90 scholastic credits. This work consists primarily of the elementary or introductory courses of the various departments* and does not include courses numbered 100 or higher, except in the case of foreign languages. Its aim is to supplement the work of the high school, to contribute to a broad general training in preparation for the advanced work of the upper division.

The subjects required for a degree in the College of Liberal Arts are

*The following (or their equivalents) constitute the courses of the lower division:
1. Modern Foreign Languages: The first two years.
2. Ancient Language: Latin 1, 2, 3, 4, 5, 6; the first two years of college work; courses in civilization and literature.
3. English: Composition; freshman and sophomore literature.
4. Mathematics and the Natural Sciences: The elementary courses (1 and 2) or equivalents.
5. History: The introductory courses in each line, e. g., medieval and modern (1-2), American (57-58-59), English (5-6), ancient (71-72-73).
6. Philosophy and Psychology: Elementary or introductory course in each line, e.g., general psychology, introduction to philosophy, ethics, logic.
7. Political and Social Science: Introductory courses in economics, government, sociology.

grouped as follows, the high school and the college being viewed as essentially a unit:

1. *Subjects Required in High School.*
   (a) English, 3 years (3 units).
   In addition to the completion of this amount of work in English, the student must show by a test examination *proficiency in English composition,* or he must take English composition in the University, as provided in note 5.
   (b) Elementary algebra, 1 year (1 unit).
   (c) Plane geometry, 1 year (1 unit).
   Subjects (a), (b), and (c) are those required of all students for admission to the University.
   (d) A foreign language, 2 years (2 units or 20 credits). See note 4 below and paragraph on Reading Knowledge of a Foreign Language, page 77.

2. *Subjects Required Either in High School or in the First Two Years of College.*
   (e) U. S. history and civics, 1 year (1 unit) or 3 quarters (9 credits). See note 1.
   (f) History, 1 year (1 unit) or 2 quarters (10 credits). See note 2.
   (g) Physics or chemistry, 1 year (1 unit) or 2 quarters (10 credits).
   (h) Botany or geology, or zoology, 1 year (1 unit) or 2 quarters (10 credits). In cases where a student is required to take both groups of science in college, he may, at his option, postpone one until he is enrolled in the upper division. In this case it will be counted among the 60 hours of upper division courses which he must take while enrolled in the upper division. In cases where only one science is required it should normally be taken in the freshman year.

3. *Subjects Required in the First Two Years of College.*
   (i) Philosophy 1 or 2 or 3 or 5, 1 quarter (5 credits). This requirement may be postponed until the junior year, but must be fulfilled by the end of that year. For students who take it in the junior year it will count among the 60 upper division credits to be earned while one is enrolled in the upper division.
   (j) Psychology, 1 quarter (5 credits).
   (k) Economics, political science, sociology, 2 quarters (10 credits). This requirement may be satisfied by the first course in each of two of these, or the first course in any one of them together with 5 credits in another course for which the one first taken is a prerequisite.
   (l) Physical education or military science, regular freshman and sophomore requirements.

4. *Subjects Conditionally Required in the First Two Years of College.*
   (m) Ancient life and literature, 2 quarters (10 credits). See note 3.
   (n) English composition, 2 quarters (10 credits). See note 5.

Students planning to enter the School of Education by way of the College of Liberal Arts must satisfy both the entrance requirements and the requirements of the first two years of the college. The *rare* exceptions to this rule will be passed upon by the dean of the college.

NOTES

NOTE 1. Students who do not take U.S. history and civics in the high school must take History 57-58-59 in the college. Those who take U.S. history but not civics in high school must take Political Science 1 in college.

NOTE 2. One year of history is required in addition to requirement (e). It may be satisfied *by any year* (1 unit or 9 or 10 credits) of history. The college courses open to freshmen who have either a "group defi-

ciency" in history or a lower division requirement in this subject are History 1-2; History 5-6. Those open to sophomores are History 1-2; History 5-6; History 71-72-73.

NOTE 3. Two quarters' work in Ancient Life and Literature is required of all students who have not taken, or do not plan to take, three or more years of ancient language. This requirement may be satisfied by any one of the following: (a) Greek 1 and 2; (b) Latin 4 and 5; (c) Greek 11 and Latin 11; (d) Greek 13 and Latin 13; (e) Greek 11 and 13; (f) Greek 11 and 12; (g) Greek 15 and 16; (h) Latin 11 and Latin 13; (i) any two of Oriental history, Life and Literature, 50, 51, 52.

NOTE 4. Two years of one of the following foreign languages are required for admission to the College of Liberal Arts: Latin, Greek, French, German, Spanish, Italian, Scandinavian. (In special cases other languages may be accepted). If a student does not present for entrance two units in one of these languages but presents two units in another foreign language, he must take in the college sufficient work in one of them to satisfy the requirement but he receives college credit for it.

NOTE 5. English composition is required in the first two years of college except in the case of persons who show by examination proficiency in that subject (see University calendar for dates of examination).

As a rule students in the lower division must confine their elections 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. (In a foreign language a student who has had the proper prerequisite may be enrolled in an upper division course merely with the consent of his registering officer.) 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.

Schedule of Limitations of the Lower Division.—No student in the lower division shall be registered for more than 16 credit hours a quarter (exclusive of required military science and physical education) or for less than 12 credit hours a quarter except with the consent of the dean. The programs of students desiring to carry more than 6 to 8 hours a week of outside work must also be approved by the dean.

IV. REQUIREMENTS OF THE 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. At least 60 hours of the credit hours taken in the upper division must be in the upper division courses (Courses 100 to 199.) Of the 190 credits required for graduation, eighteen must be in the upper division courses in the major department. These eighteen will, in most cases be included, in whole or in part, in the 60 hours of upper division courses to be taken while the student is enrolled in the upper division.

Schedule of Limitations of the Upper Division.—No student in the upper division shall be registered for more than 16 nor less than 12 credit hours per quarter, except with the consent of the dean. A maximum of 19 hours per quarter may be granted to students who have made an exceptional record in scholarship in the lower division and who maintain that record in the upper division.

V. READING KNOWLEDGE OF A FOREIGN LANGUAGE

Beginning with the academic year 1924 a reading knowledge of any one of the foreign languages taught in the University will be required for graduation from liberal arts. (This requirement will not apply to graduates from the six-year arts and law curriculum, nor to students planning to graduate under an earlier catalogue).

Students must take the test in satisfaction of this requirement not earlier than their seventh quarter, and should consult the head of the department concerned in respect to the date and nature of the test.

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 of 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.

SIX-YEAR ARTS AND LAW CURRICULUM

This combined course allows a student with a good record to obtain the degrees of bachelor of arts and bachelor of laws in six years. It is open only to students who have maintained a uniformly good record for scholarship during the first three years of collegiate work. At the end of three years, after the student has earned 135 credits, plus the ten required credits in military science or physical education and including all of the required work, together with a major, he may for the fourth year register in the School of Law for the first year's work in law. He must, however, earn in the College of Liberal Arts additional credits sufficient to make the total credits amount to 154. Thirty-six credits in the first year law work may apply toward the degree of bachelor of arts, thus making 190 credits required for this degree.

The last two years of this combined course are devoted to completing the rest of the required work in the School of Law.

Students are strongly advised to complete their full 144 (plus 10) credits in the College of Liberal Arts by the end of the third year so that they can enter the School of Law in the fourth year.

Students from other institutions entering this University with advanced standing may take advantage of this combined 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 privilege 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.

The requirement of a reading knowledge of one of the foreign languages taught in the University does not apply to candidates for the two degrees in the arts-law curriculum.

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

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.

COLLEGE OF SCIENCE

THE FACULTY, 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*

Henry Landes, A.M. (Harvard) ..... *Professor of Geology; Dean of the College of Science*
Theodore Christian Frye, Ph.D. (Chicago) ..... *Professor of Botany*
Trevor Kincaid, A.M. (Washington) ..... *Professor of Zoology*
Frederick Arthur Osborn, Ph.D. (Michigan) ..... *Professor of Physics and Director of the Physics Laboratories*
Robert Edouard Moritz, Ph.D. (Nebraska), Ph.N.D (Strassburg) ..... *Professor of Mathematics*
David Connolly Hall, Sc.M., M.D. (Chicago) ..... *Professor of Hygiene and University Health Officer*
Henry Kreitzer Benson, Ph.D. (Columbia) ..... *Professor of Industrial Chemistry*
John Weinzirl, Dr.P.H. (Harvard) ..... *Professor of Bacteriology*
Effie Isabel Raitt, A.M. (Columbia) ..... *Professor of Home Economics*
Stevenson Smith, Ph.D. (Pennsylvania) ..... *Professor of Psychology*
William Maurice Dehn, Ph.D. (Illinois) ..... *Professor of Organic Chemistry*
George McPhail Smith, Ph.D. (Freiburg) ..... *Professor of Inorganic Chemistry*
Charles Edwin Weaver. Ph.D. (California) ..... *Professor of Geology*
John L. Worcester, M.D. (Med. School University of Alabama) ..... *Professor of Anatomy*
**Eric Temple Bell, Ph.D. (Columbia) ..... *Professor of Mathematics*
James Brady, Colonel, C.A.C., (U. S. Military Academy) ..... *Professor of Military Science and Tactics*
Roy Martin Winger, Ph.D. (Johns Hopkins) ..... *Professor of Mathematics*
Allen Fuller Carpenter, Ph.D. (Chicago) ..... *Associate Professor of Mathematics*
Henry Louis Brakel, Ph.D. (Cornell) ..... *Associate Professor of Engineering Physics*
George Burton Rigg, Ph.D. (Chicago) ..... *Associate Professor of Botany*
Herman Vance Tartar, Ph.D. (Chicago) ..... *Associate Professor of Chemistry*
Thomas Gordon Thompson, Ph.D. (Washington) ..... *Associate Professor of Chemistry*
Grace Goldena Denny, M.A. (Columbia) ..... *Associate Professor of Home Economics*

Samuel Herbert Anderson, Ph.D. (Illinois) ..... *Associate Professor of Physics*
Edwin R. Guthrie, Ph.D. (Pennsylvania) ..... *Associate Professor of Psychology*
Mary Emma Gross, A.M. (Columbia) ..... *Associate Professor of Physical Education for Women*
John Earl Guberlet, Ph.D. (Illinois) ..... *Associate Professor of Zoology*
Edwin James Saunders, A.M. (Harvard) ..... *Assistant Professor of Geology*
George Irving Gavett, B.S. (C.E.) (Michigan) ..... *Assistant Professor of Mathematics*
Eli Victor Smith, Ph.D. (Northwestern) ..... *Assistant Professor of Zoology*
John William Hotson, Ph.D. (Harvard) ..... *Assistant Professor of Botany*
Lewis Irving Neikirk, Ph.D. (Pennsylvania) ..... *Assistant Professor of Mathematics*
George Edward Goodspeed, Jr., B.S. (Min.E) (Massachusetts Institute of Technology) ..... *Assistant Professor of Geology*
**Virginia Cunningham Patty (Columbia) ..... *Assistant Professor of Home Economics*
James George Arbuthnot, B.S. (Kansas State College) ..... *Assistant Professor and Director of Physical Education for Men*
*Martha Koehne, A.M. (Ohio) ..... *Assistant Professor of Home Economics*
Royal K. Greene, Major, C.A.C., (Grad. U. S. Military Academy) ..... *Assistant Professor of Military Science and Tactics*
Henry C. K. Muhlenberg, Major, Air Service, (Grad. U. S. Military Academy) ..... *Assistant Professor of Military Science and Tactics*
Otto Harry Schrader, Major, C.A.C., B.S. (E.E.) (Purdue) ..... *Assistant Professor of Military Science and Tactics*
Keith Sumner Gregory, Capt. Ret., (Grad., U. S. Military Academy) ..... *Assistant Professor of Military Science and Tactics*
Edgar Harrison Underwood, Capt., C.A.C., B.S. (Chem. Eng.) (Tennessee) ..... *Assistant Professor of Military Science and Tactics*
Hugh C. Adair, Captain, Inf. ..... *Assistant Professor of Military Science and Tactics*
Addie Jeanette Bliss, A.M. (Columbia) ..... *Assistant Professor of Home Economics*
Rachel Emile Hoffstadt, D.Sc. (Johns Hopkins) ..... *Assistant Professor of Bacteriology*

*Absent on leave.
**Absent Oct. 1, 1925-Feb. 1, 1926.

Robert C. Miller, Ph.D. (California).....*Assistant Professor of Zoology*
Lyman C. Boynton, Ph.D. (Columbia).....*Assistant Professor of Chemistry*
Lillian C. Irwin, M.D. (Cooper Medical College).....*Lecturer on Physical Education for Women*
Lilian Bloom, (Grad. Medical Gymnastic Institute, Stockholm, Sweden)....*Associate in Physical Education*
Ethel Sanderson Radford, A.B. (McGill).....*Associate in Chemistry*
Marjorie Whipple Peterson, M.S. (Colorado College).....*Associate in Chemistry*
Earl D. West, A.M. (Adrian College).....*Associate in Mathematics*
Elizabeth S. Soule, R.N. (Malden, Massachusetts, Hospital School of Nursing and Public Health.....*Associate in Nursing*
Clarence Edmundson, B.S. (Idaho).....*Associate in Physical Education*
Clyde Myron Cramlet, M.S. (Washington).....*Associate in Mathematics*
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*
Joseph M. Taylor, M.S. (Adrian College).....*Associate in Mathematics*
Lou Eastwood Anderson, B.S. (Washington).....*Associate in Physical Education*
Kirsten Larssen Newberry, M.S. (Washington).....*Associate in Physics*
Maude Parson, B.S. (Washington).....*Extension Associate in Public Health Nursing*
Kirby E. Jackson, M.S. (Vanderbilt University).....*Associate in Chemistry*
Captain Evan K. Meredith, Capt. Inf.....*Assistant Professor of Military Science and Tactics*
Laurin L. Williams, 1st Lieut. Inf., A.B. (Yale).....*Assistant Professor of Military Science and Tactics*
Christian Hildebrand, 1st Lieut. Inf. (U.S. Military Acad.).....*Assistant Professor of Military Science and Tactics*
Ruth Margaret Lusby, A.M. (Columbia).....*Instructor in Institutional Management*
Martha Dresslar, M.S. (Columbia).....*Instructor in Home Economics*
Sargent G. Powell, Ph.D. (Illinois).....*Instructor in Chemistry*
Mary Aid, A.B. (Wisconsin).....*Instructor in Physical Education*
Raymond Forrest Farwell, A.B. (California).....*Instructor in Astronomy*
Matilda Jane McGownd, A.M. (Columbia).....*Instructor in Physical Education*
Hermance Mullemeister, Ph.D. (Royal University of Utrecht, Holland).....*Instructor in Mathematics*
Waldo Semon, Ph.D. (Washington).....*Instructor in Chemistry*
William Griffith, LL.B., M.A. (Washington.....*Instructor in Psychology*

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 for 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
B. Biology
C. Chemistry
D. Geology
E. Mathematics
F. Military Science
G. Physics

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

IV. Prescribed curricula in vocational subjects:

A. Pre-medical
B. Nursing
C. Home Economics
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.

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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 Required in Secondary School*:
   - (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.

3. *Subjects Required in the University*:
   - (l) 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.

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†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.

II. CURRICULA IN THE VARIOUS DEPARTMENTS

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

A. BACTERIOLOGY

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
English 1	5	English 2 or Electives	5	Psychology 1	5
Chemistry 1	5	Chemistry 2	5	Chemistry 23	5
Zoology 1 or 3	5	Zoology 2 or 4	5	Sociology 1	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

THIRD YEAR

Bacteriology 104	4	Bacteriology 105	4	Bacteriology 106	4
Physics 1	5	Physics 2	5	Physics 3	5
Electives	5	Electives	5	Electives	5

FOURTH YEAR

Bacteriology 120	5	Bacteriology 121	5	Bacteriology 122	5
Bacteriology 190	3	Bacteriology 191	3	Bacteriology 192	3
Bacteriology 195	2	Bacteriology 196	2	Bacteriology 197	2
Electives	5	Bacteriology 111	5	Bacteriology 112	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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
English 1	5	English 2 or Electives	5	Mathematics or Electives	5
Botany or Zoology	5	Botany or Zoology	5	Electives	10
Electives	5	**Mathematics or Elect.	5		
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

SECOND YEAR

Chemistry or Physics	5	Chemistry or Physics	5		
Major	5	Major	5	Major	5
Electives	5	Electives	5	Electives	10
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

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	15
Electives	10	Electives	10		

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

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 [1]Electives	5	[1]Electives	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

[1]Options:
(a) Geology or Mineralogy.
(b) Mechanical Drawing.
(c) Biological Science.

SECOND YEAR

Chemistry 101	5	Chemistry 109	5	Chemistry 110	5
Physics 1 or 97	5	Physics 2 or 98	5	Physics 3 or 99	5
Mathematics 61	3	Mathematics 62	3	[2]Electives	5
Electives	2	Electives	2	Mil. Sci. or Phys. Ed.	1⅔
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔		

THIRD YEAR

Chemistry 131	5	Chemistry 132	5	Chemistry 133	5
[2]Electives	5	[2]Electives	5	[2]Electives	5
Group Options		Group Options		Group Options	
(a) General—		(a) General—		(a) General—	
[4]Electives	5	[4]Electives	5	[4]Electives	5
(b) Industrial—		(b) Industrial—		(b) Industrial—	
Chemistry 121	5	Chemistry 122	5	Chemistry 123	5
(c) Physiological—		(c) Physiological—		(c) Physiological—	
Physiology 151	5	Physiology 152	5	Physiology 153	5

FOURTH YEAR

Chemistry 181	5	Chemistry 182	5	Chemistry 183	5
[4]Electives	2	[4]Electives	2		
Group Options		Group Options		Group Options	
(a) General—		(a) General—		(a) General—	
Chemistry 154 or Electives	3	Chem. 155 or elect.	3	Electives	10
Electives	5	Electives	5		
(b) Industrial—		(b) Industrial—		(b) Industrial—	
Chem. Eng. 171	5	Chem. Eng. 172	5	Electives	10
Chem. Eng. 176	3	Chem. Eng. 177	3		
(c) Physiological—		(c) Physiological—		(c) Physiological—	
Chemistry 161	5	Chemistry 162	5	Chemistry 163	3
Chemistry 165	3	Chemistry 164	3	Electives	7

D. GEOLOGY

FIRST YEAR

Mathematics 4	5	English 1	5	English 2 or Elective	5
Geology 1	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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

SECOND YEAR

Physics 1	5	Physics 2	5	Electives	5
Chemistry 111	5	Geology 21	5	Geology 120	3
Civil Engineering 1	3	Civil Engineering 21	3	Civil Engineering 4	3
Geology 101	3	Electives	3	Geology 122	2
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

[2]Students expecting to elect the industrial group in junior year must take Chemistry 52 the spring quarter of the sophomore year.

[3]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.

[4]The History of Chemistry, Chem. 190 and 191 are suggested as electives in either the junior or senior year.

THIRD YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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	8
Electives	5				

E. MATHEMATICS

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
English 1	5	English 2 or Elective.	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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Phys. Ed. or Mil. Sci.	1⅔

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	2
Mathematics	2	Mathematics	2	Mathematics	2
Mathematics	3	Mathematics	3	Electives	5

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. 64	5	Business Ad. 65	5	Electives	5

FOURTH YEAR

GROUP I—SECONDARY SCHOOL TEACHERS

Education 110	5	Education 119	3	Education	3
Education 145	5	Electives	12	Electives	3
Electives	7			Education 160M	3

GROUP II—COLLEGE AND UNIVERSITY TEACHERS

Mathematics	5	Mathematics	5	Mathematics	5
Electives	10	Electives	10	Electives	10

GROUP III—STATISTICIANS AND ACTUARIES

Mathematics 151	3	Mathematics 152	3	Mathematics 153	3
Political Science	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

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

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
Civil Eng. 1 (Eng. Draw.)	3	Chemistry 1-2, or 21-22	10
Civil 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
	51		48 or 49

SUMMER QUARTER—BASIC R. O. T. C. 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		
	45		46

SUMMER QUARTER (AFTER THIRD YEAR)—ADVANCED R. O. T. C. 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*
Mathematics	15	Physics	15
**Chemistry or Physics	15	Mathematics	15
English 5 or Adv. Electives	10	Chemistry	10
Bot., Zool., Geol., or Astron.	10	Psychology	5

GROUP I—SECONDARY SCHOOL TEACHERS

Third Year	*Credits*	*Four Year*	*Credits*
Physics	15	Physics	6
Education	5	Education	13
Philosophy Group	15	Adv. Electives	13
Free Electives	10	Free Electives	13

GROUP II—COLLEGE AND UNIVERSITY TEACHERS

Third Year	*Credits*	*Fourth Year*	*Credits*
Physics	15	Physics	9
Mathematics	10	Mathematics	9
Philosophy Group	15	Adv. Electives	12
Free Electives	9	Free Electives	15

GROUP III—INDUSTRIAL PHYSICISTS

Third Year	*Credits*	*Fourth Year*	*Credits*
Physics	15	Physics	9
Philosophy Group	15	Chemistry	15
Chemistry	5	Adv. Electives	15
Adv. Electives	5	Free Electives	6
Free Electives	5		

Advanced electives must be approved by the department.
*All electives will be outside the military department.
**Physics will be taken only when no high school physics is offered.
†Students of Group III may select 5 hours of advanced electives in the second year.

III. REQUIRED CURRICULA IN GROUP MAJORS

A. CURRICULUM FOR PROSPECTIVE SCIENCE TEACHERS

Most of those science students who expect to teach must begin in a small high school. In such schools one teacher usually teaches several or all the sciences. It is therefore desirable that such students get a wide range of scientific knowledge, rather than the intensive training secured by three years' work for a major in some one department. The following course permits the students to prepare in more sciences by not requiring three years of any one science.

First Year	*Credits*	*Second Year*	*Credits*
Science (botany, geology, or zoology)	10	History	10
Science (physics or chemistry)	10	Economics, Pol. Sci. or Sociology	10
Mathematics	5	Science	20
English	0 to 10	Electives	5
Electives	10	Mil. Sci. or Phys. Ed.	6
Mil. Sci. or Phys. Ed.	6		

Third Year	*Credits*	*Fourth Year*	*Credits*
Philosophy and Psychology	10	Education	18
Science	20	Science	10
Electives	15	Electives	17

Regulations Governing This Curriculum

(a) A student may select any three of the following sciences and must do the amount of work in any particular science, as indicated.
Botany (exclusive of bacteriology), 20 credits.
Chemistry, 20 credits.
Geology, 20 credits.
Mathematics (exclusive of astronomy), 20 credits.
Physics, 20 credits.
Zoology, 20 credits.

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

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

(d) When mathematics is selected as one of the three sciences, physics must be selected also.

(e) The modern foreign language required shall be either French or German and a continuation of the language taken in high school.

(f) The work in freshman composition shall be 0 to 10 credits.

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 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 sicence in library science. Under this arrangement a student should first

complete all the required work of the course for science teachers (outlined unde Section A.), substituting courses in library science for the 18 credits in education stipulated for the senior year. 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 science in library science at the end of the fifth year. (See page 107.)

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 three or four-year college courses. 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. Pre-medic students should frequently consult faculty advisors of the pre-medic curriculum as additional requirements for admission to medical schools are made from year to year.

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
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔

SECOND YEAR

Sci. French or German	5	Chem. 128 (Organic)	5	Chem. 129 (Organic)	5
Physics 1	5	Physics 2	5	Physics 3	5
English 73	5	Electives	5	Ec. 1 or Pol. Sci. 1	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔

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	4	Bacteriology 106	4

FOURTH YEAR

Physiology 151	5	Physiology 152	5	Physiology 153	5
Chemistry 161	5	Chemistry 162	5	Bacteriology 112	5
Bacteriology 104	4	Bacteriology 111	5	Elective	8
Anatomy 104	4	Elective	4		

B. THREE-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	5	English 1	5	Chemistry 6	5
Nursing 1	5	Chemistry 5	5	English 2	5
Physics 89	5	Physics 90	5	Physiology 7	5
Physical Ed.	1⅔	Physical Ed.	1⅔	Physical Ed.	1⅔
	16⅔		16⅔		16⅔

SECOND YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Psychology 1	5	Home Economics 106	5	Anatomy 101-102	6
Home Economics 105	5	Physiology 55	5	Economics 1	5
Physiology 54	5	Sociology 1	5	Nursing 3	3
Physical Ed.	1⅔	Physical Ed.	1⅔	Electives	2
				Physical Ed.	1⅔
	16⅔		16⅔		17⅔

THIRD YEAR

Anatomy 103	3	Bacteriology 102	5	Bacteriology 103	5
Bacteriology 101	5	Psychology 126	3	Education 101	5
English 40	5	Elective	8	Elective	5
Electives	2				
	15		16		15

CURRICULUM FOR GRADUATE NURSES

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Economics 1	5	Chemistry 5	5	Chemistry 6	5
Psychology 1	5	English 1	5	English 2	5
Elective	5	Elective	5	Elective	5
Physical Ed.	1⅔	Physical Ed.	1⅔	Physical Ed.	1⅔
	16⅔		16⅔		16⅔

Preferred electives—Sociology 1, 63, 62; Zoology 16, 17.

SECOND YEAR

Physiology 54	5	Physiology 55	5	Education 101	5
Home Economics 105	5	Home Economics 106	5	Elective	10
Elective	5	Elective	5	Physical Ed.	1⅔
Physical Ed.	1⅔	Physical Ed.	1⅔		
	16⅔		16⅔		16⅔

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	10
Elective	5	Nursing 103	5		
	15		15		15

Preferred electives—Sociology 155, 156, 157, 171, 173; Nursing 110.

NOTE—It is advised that the two years in the hospital follow the first quarter of the third year. This enables the student to return to the University to specialize in public health nursing.

CURRICULUM TO BE FOLLOWED IN A SELECTED HOSPITAL

	Credits		*Credits*
Demonstration of Nursing	5	Eye, Ear, Nose and Throat Nursing	5
Anesthesia	5	Neurological Nursing	5
Clinical Analysis	10	Children's Nursing	5
Medical Nursing	20	Infectious and Contagious Disease Nursing	5
Surgical Nursing	20	Administration	5
Obstetrical and Gynecological Nursing	20		

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 preparation, 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, and students who wish to become dietitians in hospitals, sanatoria or private work. 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, fine 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, 175—with their prerequisites.

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

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.

Any of these five lines may 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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
English 1	5	English 2	5	Physiology 7	5
Zool. 1 or Bot. 1	5	Chemistry 5	5	Chemistry 6	5
Phys. Ed.	1⅔	Zool. 2 or Bot. 2	5	Lang. (Anc. or Mod.)	5
		Phys. Ed.	1⅔	Phys. Ed.	1⅔

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

SECOND YEAR

Language (Anc. or Mod.)	5	Language (Anc. or Mod.)	5	Language (Anc. or Mod.)	5
History	5	History	5	Psychology 1	5
Phys. Ed.	1	Phys. Ed.	1	Economics 1	5
				Phys. Ed.	1

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

THIRD YEAR

Philosophy 2	5	Sociology 1	5

Preferred electives—H.E. 105-106, 111, 112, 113, 116; Physics 89-90.

FOURTH YEAR

Preferred electives—H.E. 144-145, 148, 143; 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
Phys. Ed.	1⅔	Chemistry 5	5	Physiology 55	5
		Phys. Ed.	1⅔	Lang., Lit., or Hist.	5
		Physiol. 54	5	Phys. Ed.	1⅔

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
Phys. Ed.	1	Phys. Ed.	1	Phys. Ed.	1

Preferred electives—H.E. 5, Soc. 56, 57, 58; Psych. 118, 121.

THIRD YEAR

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. 183, 148, 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
Phys. Ed.	1⅔	Phys. Ed.	1⅔	Phys. Ed.	1⅔

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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Lang., Lit., or Hist.	5	Lang., Lit., or Hist.	5	Lang., Lit., or Hist.	5
Chemistry 135	5	Chemistry 136	5	Psychology 1	5
Phys. Ed.	1	Phys. Ed. 1	1	Phys. Ed.	1
Preferred electives—					
Home Economics 5	5			Bacteriology 101	5

THIRD YEAR

Education 101	5	Education 110	5	Economics 1	5
				Education 119	3
				Sociology 1	5
Preferred electives—					
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 161J	3	Education 145	5
Preferred electives—					
Home Economics 148	2	Home Economics 144	2	Home Economics 145	2

Architecture 1, 2.

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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
English 1	5	English 2	5	Chemistry 6	5
Physiology 6	5	Chemistry 5	5	Lang., Lit., or Hist.	5
Phys. Ed.	1⅔	Phys. Ed.	1⅔	Phys. Ed.	1⅔

Preferred electives—H.E. 4, 7, 25, 148; P.S.D. 9; Law 54.

SECOND YEAR

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

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

THIRD YEAR

Economics 1	5	Sociology 1	5

Preferred electives—H.E. 107-108, 111, 116, 124, 143; Chem. 104, 144; Physics 89-90.

FOURTH YEAR

Preferred electives—H.E. 121, 122, 123, 125, 144, 145, 183, 190, 191; B.A. 62; Arch. 1-2.

GROUP V—TEXTILES, CLOTHING AND FINE ARTS

SUMMARY

	Credits		*Credits*
College requirements	65	Free electives	34
Fine Arts	31	Physical Education	10
Home Economics	50		
			190

SUGGESTED SCHEDULE

College Requirements	*Credits*	*Fine Arts*	*Credits*	*Home Economics*	*Credits*
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. 89, 90	10	Arch. 1-2	4	H.E. 25, Textiles	5
Physiology 7	5	P.S. & D. Electives	14	H.E. 127, Non-Textiles	3
Economics 1	5			H.E. 101-102	4
Sociology 1	5			H.E. 112-113 (Clothing)	10
Psychology 1	5			H.E. 130-131 Commercial 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

D. PHYSICAL EDUCATION FOR WOMEN

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
English 1	5	Lang., Lit., History or Electives	5	English	5
Lang., Lit., Hist. or Elective	5	Chemistry 5	5	Lang., Lit., History or Electives	5
Zoology 1	5	Physiology 7	5	Chemistry 6	5
Phys. Ed.	1⅔	Phys. Ed.	1⅔	Phys. Ed.	1⅔

Preferred Electives—Phys. Education 100—2 credits

SECOND YEAR

Physiology 54	5	Physiology 55	5	Sociology 1	5
Lang., Lit., History or Elective	5	Psychology 1	5	Education 101	5
Anatomy 101	3	Anatomy 102	3	Anatomy 103	3
Phys. Ed.	1⅔	Phys. Ed.	1⅔	Phys. Ed.	1⅔
Preferred Electives—					
Phys. Ed. 111	3	Phys. Ed. 112	3	Phys. Ed. 113	3

THIRD YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Physics 89	5	Physics 90	5	Education 110	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 (Gymna.)	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'lgy)	3
				Phys. Ed. 169 (Athlet.)	3

FOURTH YEAR

Education 145	3	Education 145	2	Electives	7
Education 119	4	Electives	7		
Education 160.R.	2			Phys. Ed. 163 (Anthro.)	2
		Phys. Ed. 155 (Dancing)	2	Phys. Ed. 156 (Dancing)	2
Preferred Electives—		Phys. Ed. 152 (Ad. in		Phys. Ed. 153 (Meth.	
Phys. Ed. 154 (Dancing)	2	Phys. Ed.)	2	Hyg. Inst.)	2
Phys. Ed. 170 (Athlet.)	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 1	5	‡Psychology 1	5
Nursing 102	5	‡Psychology 131-132	6
Nursing 103	5	‡Bacteriology 103	5
Sociology 171	5	Introduction of Study of Education	5
‡Home Economics 105-106	10	Field work	16
English 40	5		

‡Electives.

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

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, 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*

John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*

Frederick Elmer Bolton, Ph.D. (Clark) ..... *Professor of Education; Dean of the School of Education*

Fred Carleton Ayer, Ph.D. (Chicago) ..... *Professor of Education*

Edward Dunnington Randolph, Ph.D. (Columbia) ..... *Professor of Education*

Alexander Crippen Roberts, Ph.D. (Washington) ..... *Professor of Education and Director of Extension Service*

Curtis Talmadge Williams, Ph.D. (Clark) ..... *Assistant Professor of Education*

August Dvorak, Ph.D. (Minnesota) ..... *Assistant Professor of Education*

Cecil Leonard Hughes, A.M. (Washington) ..... *Lecturer on Education*

Edgar Marion Draper A.M. (Washington) ..... *Associate in Education*

Charles Watson, H., A.M. (Kansas) ..... *Associate in Education*

Walter Redford, A.M. in Ed. (Washington) ..... *Fellow in Education*

Wallace Theodore Wait, A.B. (Whitworth) ..... *Assistant in Education*

Henry Landes, A.M. (Harvard) ..... *Professor of Geology; Dean of the College of Science*

Edmond Stephen Meany, M.L. (Wisconsin) ..... *Professor of History*

Caroline Haven Ober ..... *Professor of Spanish*

Trevor Kincaid, A.M. (Washington) ..... *Professor of Zoology*

Frederick Morgan Padelford, Ph.D. (Yale) ..... *Professor of English; Dean of the Graduate School*

Frederick Arthur Osborn, Ph.D. (Michigan) ..... *Professor of Physics; Director of the Physics Laboratories*

David Thomson, B.A. (Toronto) ..... *Professor of Latin; Dean of the College of Liberal Arts*

Pierre Joseph Frein, Ph.D. (Johns Hopkins) ..... *Professor of Romanic Languages*

Theodore Christian Frye, Ph.D. (Chicago) ..... *Professor of Botany*

Robert Edouard Moritz, Ph.N.D. (Strassburg) ..... *Professor of Mathematics*

Irving Mackey Glen, A.M. (Oregon) ..... *Professor of Music; Dean of the College of Fine Arts*

Edwin John Vickner, Ph.D. (Minnesota) ..... *Professor of Scandinavian Languages*

Effie Isabel Raitt, A.M. (Columbia) ..... *Professor of Home Economics*

Stevenson Smith, Ph.D. (Pennsylvania) ..... *Professor of Psychology*

Howard Thompson Lewis, A.M. (Wisconsin) ..... *Professor of Economics; Dean of the College of Business Administration*

Howard Woolston, Ph.D. (Columbia) ..... *Professor of Sociology*

Edward McMahon, A.M. (Wisconsin) ..... *Associate Professor of American History*

Edwin James Saunders, A.M. (Harvard) ..... *Assistant Professor of Geology*

Ernest Otto Eckelman, Ph.D. (Heidelberg) ..... *Assistant Professor of German*

Frances Dickey, A.M. (Columbia) ..... *Assistant Professor of Music*

Mary Emma Gross, A.M. (Columbia) ..... *Associate Professor of Physical Education for Women*

GENERAL STATEMENT

The School of Education bases its work on two years of college or normal school. Only one course in education, Introduction to Education, 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 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.

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, with completion of 36 hours of work, 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:

	Credits
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:

		Credits
101.	Introduction to Study of Education	5
110.	Psychology of Teaching Methods	5
119.	Secondary Education	3
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.

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:

		Credits
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
		15

Experienced teachers who are candidates for the bachelor's degree from the School of Education are required to take the following courses:

		Credits
101.	Introduction to Study of Education	5
110.	Psychology of Teaching Methods	5
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
		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 the 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.

7-7-25 - Comm on Grad ruled no objection to use as major provided student had preparation as in case of Darty & Whaley both from normal.

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:

		Credits
101.	Introduction to Study of Education	5
110.	Psychology of Teaching Methods	5
119.	Secondary Education	3
145.	Practice Teaching	5
160.	Teachers' Course in Special Subject	2
		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:

		Credits
110.	Psychology of Teaching Methods	5
119.	Secondary Education	3
150.	Educational Measurements	3
152.	Social Surveys of Education	2
145.	Practice Teaching	5
160.	Teachers' Course in Special Subject	2
		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.

		Credits
110.	Psychology of Teaching Methods	5
119.	Secondary Education	3
145.	Practice Teaching	5
150.	Educational Measurements	3
152.	Social Surveys	2
160.	Teachers' Course in Special Subject	2
		20

As a part of the total 45 credits they also must complete 10 credits in some teaching subject approved by the head of the department in which the academic 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 15 credits in education as follows:

		Credits
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
		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.

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.

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	*Credits
101. Introduction to Study of Education	5
110. Psychology of Teaching Method	5
119. Secondary Education	3
145. Practice Teaching	5
150. Educational Measurements	3
160. Teachers' Course in Special Subject	2
Electives in Education	2
	25

Normal School Graduates	*Credits
119. Secondary Education	3
150. Educational Measurements	3
152. Social Surveys in Education	2
160. Teachers' Course in Special Subject	2
Elective in Education	5
	15

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	*Credits
101. Introduction to the Study of Education	5
110. Psychology of Teaching Method	5
119. Secondary Education	3
145. Practice Teaching	5
160. Teachers' Course in Special Subject	2
	20

Graduates from University of Washington with no Undergraduate Credits in Education	*Credits
110. Psychology of Teaching Method	5
119. Secondary Education	3
145. Practice Teaching	5
150. Educ. Measurements	3
152. Social Surveys	2
160. Teachers' Course in Special Subject	2
	20

Graduates from Other Accredited Colleges with no Undergraduate Credits in Education	*Credits
110. Psychology of Teaching Method	5
119. Secondary Education	3
145. Practice Teaching	5
150. Educ. Measurements	3
152. Social Surveys	2
160. Teachers' Course in Special Subject	2
Academic Subjects	10
Free Electives	15
	45

One year of residence in this University.
These will presumably select work to apply on a masters' degree.

*Quarter Hours.

DISTRIBUTION OF COURSES IN EDUCATION IN PREPARATION FOR SPECIAL TYPES OF DEGREES. LEADS TO MASTER'S DEGREE

Requirements in Education for Bachelor of Arts in Education, or Bachelor of Science in Education.

High School Principal	*Credits
Introduction to the Study of Educ.	5
Psych. of Teaching Method	5
Secondary Education	3
Teachers' Course in Special Subject	2
Practice Teaching	5
Educ. Measurements	3
Electives in Education	2
	25

Grade School Principal	*Credits
Introduction to the Stuly of Educ.	5
Psych. of Teaching Method	5
Secondary Education	3
Teachers' Course in Special Subject	2
Practice Teaching	5
Educ. Measurements	3
Electives in Education	2
	25

Village Superintendent	*Credits
Introduction to the Stuly of Educ.	5
Psych. of Teaching Method	5
Secondary Education	3
Teachers' Course in Special Subject	2
Practice Teaching	5
Educ. Measurements	3
Electives in Education	2
	25

City Superintendent	*Credits
Introduction to the Study of Educ.	5
Psych. of Teaching Method	5
Secondary Education	3
Teachers' Course in Special Subject	2
Practice Teaching	5
Educ. Measurements	3
Electives in Education	2
	25

ADDITIONAL REQUIREMENTS IN EDUCATION FOR MASTER'S DEGREE

Junior High School	2
High School Organization	2
Psych. of High School Subjects	3
Educational Administration	6
Electives	9
Thesis	6
	28

Junior High School	2
Individual Mental Testing	6
Psych. of Elementary School Subjects	3
Educational Administration	6
Electives	5
Thesis	6
	28

Educational Sociology	5
Psych. of Elementary School Subjects	3
Educational Administration	6
Electives	8
Thesis	6
	28

Junior High School	2
Group Intelligence Tests	5
Psych. of Elementary School Subjects	3
Educational Administration	6
Electives	6
Thesis	6
	28

REQUIREMENTS IN EDUCATION FOR CANDIDATES FOR SPECIAL POSITIONS AND FOR DEGREE OF DOCTOR OF PHILOSOPHY

The requirements in Education for Bachelor of Arts in Education, or Bachelor of Science in Education for College Instructors in Education, Normal School Instructors in Education, and Directors of Educational Research, are:

	*Credits
Introduction to the Study of Education	5
Psych. of Teaching Method	5
Secondary Education	3
Teachers' Course in Special Subject	2
Practice Teaching	5
Educ. Measurements	3
Electives in Education	2
	25

Elect, 60 hours from the following (thesis required):

	*Credits
Educational Sociology	3
Educational Administration	6
Individual Mental Testing	6
Psychology of Elementary School Subjects	3
Psycholoy of High School Subject	3
Junior High School	2
Child Study or Adolescence	5
Group Intelligence	5
Experimental Education	3
History of Education	5
Seminar, Vocational Guidance	6
Seminar, School Survey	6
Seminar, Educational Measurements	6
Philosophy of Education	6
Seminar, Educational Sociology	6
Seminar, Comparative Education	6
Electives	8
Thesis	30
	120

*Quarter Hours.

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 consists 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: Courses 101, 102, 103, 104, 105, 106, and 9 hours selected from 190, 191, 192, 195, 196, 197; total 36 credits.

Academic Minor: Courses 101, 102, 103, and enough 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. Grades must average at least C to secure a recommendation for teaching chemistry.

CIVICS

Academic Major: Political Science 1, Economics 1, Sociology 1, and one of the following groups: Political Science 161, 151, Political Science electives; Sociology 55, 56, 131, 180-181-182; Economics 57, 61, 105, 160; minimum 35 credits.

Academic Minor: Political Science 1, Economics 1, Sociology 1 and 5 (for teaching recommendation 10) additional from one of the three subjects; minimum 20 credits.

CLASSICAL LANGUAGES AND LITERATURE

Academic Major in Latin: Greek 1 and 2, and 25 credits from Latin 21, 22, 23, 50, 60, 70, 107, 108, 109.

Academic Minor in Latin: Twenty credits from Latin 21, 22, 23, 50, 60, 70, 107.

Academic Major in Greek: Ten credits of Latin and 25 from Greek 1, 2, 3, 4, 5, 101, 102, 103.

Academic Minor in Greek: Twenty credits from Greek 1, 2, 3, 4, 5.

DRAMATIC ART

Academic Major: Courses 4-5, 61, 62, 101-102, 127, 151, 153; total 35 credits.

Academic Minor: Courses 4-5, 61, 62, 101-102; total 20 credits.

ENGLISH

Academic Major: Freshman composition, senior conference 191-192-193, electives to total 35 credits, exclusive of freshman composition.

Academic Minor: 20 credits exclusive of freshman composition.

For either a major or a minor it is desirable to divide the time between the extensive courses which give broad surveys and the intensive courses which deal critically with limited periods or movements.

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 57); B.A. 54, 55, and 56, 9 credits; B.A. 81 and 82, 10 credits; and B.A. 57; 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 requirements of the College during the freshman and sophomore years. The remaining 15 hours shall include B.A. 58 and B.A. 70.

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. 57, 58, 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 1, 2, 21, 107, 120, 123, 124, 126, 131; minimum, 35 credits.

b. Courses 1 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 1, 2, 21, 112; minimum, 20 credits.

b. Courses 1 or 12, 10, 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 Minor: Courses 51, 101, 120, 150; total 20 credits.

Academic Major in Journalism not offered in the School of Education.

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 1-2-3, 4-5-6, 7-8-9, 14-15-16, 101-102-103, 113-114; total 35 credits.

Academic Minor: Courses 1-2-3, 7-8-9, 14-15-16, 54-55-56; 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 7, 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; Phy. 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, 151, 161, and electives to make minimum of 35 credits.

Academic Minor: Courses 1, 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, 109, 111, 114, 124 and electives to make a minimum of 35 credits.

Academic Minor: Courses 1, 106, 112, 114, 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 56-57-58, 101-102, 105-106; total 35 credits.

Academic Minor: Courses 16, 17, 18, 53-54-55, 169; total 20 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, 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, 181, 182 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, statistics, 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

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

LIBRARY SCHOOL

THE FACULTY, 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*
William Elmer Henry, A.M. (Indiana) ..... *Professor of Library Science; Director of Library School*
Charles Wesley Smith, A.B., B.L.S. (Illinois) ..... *Associate Professor of Library Science*
Marie Smart Alfonso, A.B. (Nebraska), B.S. in L.S. (Washington) ..... *Instructor in Library Science*
Marguerite E. Putnam, A.B. and B.S. in L.S. (Washington) ... *Instructor in Library Science*
Sarah Virginia Lewis, Certificate in Library Science (Wisconsin) .. *Associate in Library Science*
Anne E. Hall, A.B. (Wellesley), Certificate in Library Science (Carnegie Library School, Pittsburgh) ..... *Instructor in Library Science*

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. Such students may finish the curriculum in three quarters, provided they meet the language requirements prescribed in Paragraph 1 above.

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 director 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.

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.

CURRICULUM IN LIBRARY SCIENCE

	Credits
Library Economy	2
Classification and subject headings	3
Cataloging	6
Reference	6
History of books and libraries	2
Organization and extension	2
Administration	2
Subject bibliography	2
Book selection	7
Work with children and schools	2
Special lectures	1
Practice (300 clock hours)	10

Each recitation or lecture period presupposes two hours preparation and twelve such periods are counted as one credit. Thirty clock hours of practice are counted as one credit.

Practice.—Practice under careful supervision covers 300 clock hours, fifteen hours per week through ten weeks each during the winter and spring quarters.

The practice time is divided about equally between the University Library and the Seattle Public Library.

The Seattle Public Library offers rather unusual opportunities for practice in varied phases of work under careful supervision of trained librarians of large experience.

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 director 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.

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.

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

COLLEGE OF BUSINESS ADMINISTRATION

THE FACULTY, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*

John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*

Howard T. Lewis, M.A. (Wisconsin) ..... *Professor of Economics; 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*

William D. Moriarty, Ph.D. (Michigan) ..... *Professor of Business Administration*

William E. Cox, A.M. (Texas) ..... *Professor of Business Administration*

Carl S. Dakan, B.S. (Missouri) ..... *Professor of Business Administration*

Wilfred Eldred, Ph.D. (Harvard) ..... *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*

Charles R. Atkinson, Ph.D. (Columbia) ..... *Associate Professor of Business Administration*

Henry A. Burd, Ph.D. (Illinois) ..... *Associate Professor of Business Administration*

Theresa McMahon, Ph.D. (Wisconsin) ..... *Assistant Professor of Business Administration*

Homer E. Gregory, A.M. (Chicago) ..... *Assistant Professor of Business Administration*

Karl E. Leib, J.D. (Stanford) ..... *Assistant Professor of Business Administration*

James M. McConahey, M.A. (Washington and Jefferson), LL.B. (Northwestern), C.P.A. ..... *Lecturer on Accounting*

J. P. Robertson, C.P.A. ..... *Lecturer on Accounting*

Pierce C. Davis, C.P.A. ..... *Lecturer on Accounting*

Norman L. Burton, M.B.A. (Harvard), C.P.A. ..... *Lecturer on Accounting*

Oscar E. Draper ..... *Lecturer on Business Administration*

A. R. Trjax ..... *Lecturer on Business Administration*

Frank C. Van de Walker, M.B.A. (Washington) ..... *Associate in Business Administration*

F. H. Hamack, LL.B. (Georgetown) ..... *Instructor in Business Administration*

Raymond F. Farwell, A.B. (California) ..... *Instructor in Maritime Commerce*

William A. Russell, Certificate (Polytechnicum of Munich), M.B.A. (Washington) ..... *Instructor in Business Administration*

Florence M. Morse, Ph.D. (Columbia) ..... *Instructor in Business Administration*

Grant I. Butterbaugh, M.B.A. (Washington) ..... *Assistant in Business Administration*

R. M. Rutledge, M.A. (Wisconsin) ..... *Teaching Fellow*

R. C. Whittlesey, M.A. (Beirut) ..... *Teaching Fellow*

Earl C. Wood, A.B. (Whitman) ..... *Teaching Fellow*

Melvin DeShazo, B.A. (Washington) ..... *Teaching Fellow*

Edward Cruzen, B.B.A. (Washington) ..... *Teaching Fellow*

Frederick M. Padelford, Ph.D. (Yale) ..... *Professor of English; Dean of the Graduate School*

William Savery, Ph.D. (Harvard) ..... *Professor of Philosophy*

Robert Edouard Moritz, Ph.D. (Nebraska), Ph.N.D. (Strassburg) ..... *Professor of Mathematics*

Henry Kreitzer Benson, Ph.D. (Columbia) ..... *Professor of Chemical Engineering*

Carl Edward Magnusson, Ph.D. (Wisconsin), E.E. (Minnesota) ..... *Professor of Electrical Engineering; Dean of the College of 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*

Edward McMahon, A.M. (Wisconsin) ..... *Associate Professor of American History*

GENERAL STATEMENT

Modern business has reached the stage where internal and external economies must be realized. The industrial management of today seeks to reduce waste in materials and labor, and to promote the most effective organization of the factors of production. Such a task requires not only special knowledge, but also vision of the highest order.

A knowledge of accounting, statistics, labor efficiency, resources, credit, insurance, business law and organization, is fundamental for a proper understanding and an intelligent direction of our modern industrial system. Such studies as psychology, sociology, government, ethics, and history provide the larger equipment necessary for dealing with the industrial system in its proper perspective and its social relationships.

The establishment of a well-ordered plant is the basis of a strong position in production. Just as important is the problem of successfully moving the product to the consumer. Markets are no longer local, but national and even international. Every business man has occasion to study salesmanship, advertising, transportation routes and rates, banking, exchange, tariffs and government regulation. The more extended state control of industry especially is calling for unusual ability to cooperate.

The College of Business Administration aims to train students to meet the general as well as the specific problems of modern industry.

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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 school may satisfy this requirement by taking 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

		Credits
B.A. 1	General Economics. Autumn, winter, spring	5
B.A. 2	Applied Economics. Winter, spring	5
B.A. 7	Geographic Background of Industry. Autumn, winter, spring	5
*Math. 11-12	Mathematical Theory of Investment. Autumn, winter, spring	10
†or	Physics 1 and 2 or 3, 10 hours; or Chemistry 1 or 21 and 2 or 22, 10 hours	
Math. 13	Elements of Statistical Method. Autumn, winter, spring	5
English 1	Written and Oral English. Autumn, winter, spring	5
English 37	Argumentation. Autumn, winter, spring	5
**Psychology 1	Elements of Psychology. Autumn, winter, spring	5
	Military Science or Physical Education	+5
		45+5

SECOND YEAR

B.A. 54-55-56	Business Law. Autumn, winter, spring	9
History 56-57-58	History of the United States. Autumn, winter, spring	9
B.A. 62-63-64	Accounting. Autumn, winter, spring	15
B.A. 57	Money and Banking. Autumn, winter, spring	5
B.A. 59	Elements of Business Statistics. Autumn, winter, spring	(5)
‡‡B.A. 58 and	Risk and Risk Bearing. Autumn, winter, spring	(5)
‡‡B.A. 61 or	Social and Economics Standards or Introductory Sociology. Autumn winter, spring	(5)
Soc. 1	Military Science or Physical Education	5
		48 (53)+5

BUSINESS CURRICULUM

THIRD YEAR

Pol. Sci. 1	Elements of Government. Autumn, winter, spring	5
B.A. 115 or 116	Business Correspondence or Business Report Writing. 115. Autumn, winter, spring; 116, winter	5
	***Approved electives	35
		45

FOURTH YEAR

Phil. 1, 2, 3, or 5	One of these courses required	5
B.A. 160	Advanced Economics. Autumn, winter, spring	5
	***Approved electives	32
		42

The requirements of the first two years are sufficiently broad tc establish a foundation for the profession of business, regardless of the particular field in which the student may later be interested.

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†Students who have had chemistry in high school will take Chem. 21-22 if chemistry is elected.

**Required, but may be postponed to sophomore year, if desired.

‡‡B.A. 58 is required but may be postponed until the junior year. B.A. 61 or Sociology 1 required, but may be postponed until junior year. If neither B.A. 58, nor B.A. 61 or Sociology 1 is taken in the sophomore year, five hours of approved elective must be substituted.

*Students majoring in Maritime Commerce may substitute B.A. 52 (Navigation) and B.A. 49 (Ship Operations) for Math. 11 and 12 in fulfilling requirements for the B.B.A. degree.

***Of the approved electives in the junior and senior years at least 25 hours must be in upper division courses in economics and business administration.

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 benefit 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
2. Applied Economics
57. Money and Banking
58. Risk and Risk Bearing
61. Social and Economic Standards of Living
70. Economics of Marketing and Advertising
104. Economics of Transportation
121. Corporation Finance
159. Advanced Money and Banking
160. Advanced Economics
161. American Labor Problems
162. European Labor Problems
164. Land Economics
165. Labor Legislation (2 hrs.)
181-182-183. Economics of Consumption (2 hours)
166. Women in Industry
168. History of Economic Thought
201. Graduate Seminar
205. Seminar in Value and Distribution
207. Seminar in Labor

174
176
177

SUGGESTED COURSES FOR THE PROFESSIONAL FIELDS

Besides general training in economics the following fields of business training are suggested:

1. Accounting
2. Advertising
3. Business Finance
4. Commercial Teaching
5. Foreign Trade
6. Industrial and Employment Management
7. Insurance
8. Maritime Commerce
9. Marketing
10. Merchandising
11. Secretarial Work
12. Transportation

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 page 111 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 the approval of his advisor.

GENERAL INFORMATION

Textbooks—Syllabus Fees,—Many courses in the College of Business Administration require textbooks. The faculty aims to keep the 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 at $5 this fee has been fixed at $1 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.—Three professional societies with national affiliations have been established at the College of Business Administration. Beta Gamma Sigma and Alpha Kappa Psi are professional fraternities for men which at present count chapters in many eastern institutions. Membership is based on high scholarship. Their aim is to promote serious study of business problems. Gamma Epsilon Pi 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. The parent chapter of Pan Xenia, an honor society for major students in foreign trade, was founded three years ago 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.

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 Seattle and Tacoma 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.

International Relations.—Plans are now being completed to establish exchange scholarships with China and with some of the South American republics. The opportunities which are thus afforded for American students to study abroad and for foreign students to gain a better understanding of American life and thought will be of great educational value.

Fellowships.—The college is now in a position to grant several fellowships with 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

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

SCHOOL OF JOURNALISM

THE FACULTY, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*
Matthew Lyle Spencer, Ph.D. (Chicago) ..... *Professor of Journalism; Director of the School of Journalism*
Robert William Jones, A.B., LL.B. (Missouri), A.M. (South Dakota) ..... *Associate Professor of Journalism*
Fred Washington Kennedy ..... *Assistant Professor of Journalism; Director of the Journalism Laboratories*
Leo A. Borah, A.B. (Huron), A.M. (Washington) ..... *Assistant Professor of Journalism*
James Matthew O'Connor, Jr., A.B. (Washington) ..... *Editorial Secretary and Associate in Journalism*
Josef Washington Hall, A.B. (Washington College) ..... *Lecturer on Journalism*
Berenice DuRae, A.B., M.A. (Washington) ..... *Secretary to the Director*

Edmond Stephen Meany, M.L. (Wisconsin) ..... *Professor of History*
William Savery, Ph.D. (Harvard) ..... *Professor of Philosophy*
Pierre Joseph Frein, Ph.D. (Johns Hopkins) ..... *Professor of Romanic Languages*
Stevenson Smith, Ph.D. (Pennsylvania) ..... *Professor of Psychology*
Howard Woolston, Ph.D. (Columbia) ..... *Professor of Sociology*
Leslie James Ayer, J.D. (Chicago) ..... *Professor of Law*
Fred Carlton Ayer, Ph.D. (Chicago) ..... *Professor of Education*
Charles E. Martin, Ph.D. (Columbia) ..... *Professor of Political Science*
William Daniel Moriarty, Ph.D. (Michigan) ..... *Professor of Business Administration*
D. D. Griffith, Ph.D. (Chicago) ..... *Associate Professor of English*
Ambrose Patterson ..... *Associate in Fine Arts*
Frank H. Hamack, LL.B. (Georgetown) ..... *Instructor in Business Administration*

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 pursuit 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 increasing demands of Pacific coast editors for University graduates. Requests to date have exceeded the supply to such an extent that the school has been compelled to recommend students who have not completed their training. Ultimately the school hopes to meet the demand with graduates only.

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 and publishing.

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 director 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 the junior certificate, which admits to the School of Journalism. (See section relating to College of Liberal Arts, page 76.) Students not holding the junior certificate may be admitted 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 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 director's desk on exchange. The number of courses requiring fees varies from year to year. In 1925-1926 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 director of the School of Journalism is the advisor 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 director's office. To him should be taken questions about co-ordinating courses in other schools and any matters touching the scholastic majors.

Journalism Curriculum.—From the beginning of the freshman year a specific curriculum of studies (see page 118) is required of students erpecting to major in journalism. Courses in news writing, the profession of journalism, 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. An oral examination before the journalism faculty is required of seniors not less than two weeks before the end of the quarter in which they expect to graduate. 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[1]

	Credits
Dramatic Art	
5. Speaking Voice	3
Economics	
1. ‡General Economics	5
‡Typewriting	1 quarter
English	
1. ‡Composition	5
64, 65, ‡Literary Backgrounds[2]	10
History	
5-6. English Political and Social History	10
Journalism	
1. ‡Journalism as a Profession	1
Liberal Arts	
1. †Introduction to Modern Thought	5
Mil. Sci. or Phys. Educ.	
‡Mil. Sci. or Phys. Educ.	5
Painting, Sculpture and Design	
16-17-18. Art Appreciation	3
Political Science	
1. ‡Comparative Government	5
Science	15
Sociology	
1. ‡Introductory Sociology	5

SECOND YEAR

	Credits
Architecture	
112, 113. Freehand Drawing	4
Economics	
62, 63. Accounting	10
70. Economics of Markets	5
‡Shorthand	2 quarters
English	
67, 68, 69. †Great American Writers.	6
Foreign Language	10
Greek	
11. ‡Greek Civilization[3]	5
History	
57-58-59. ‡History of the United States	9
71-72-73. Ancient History	9
Journalism	
51. ‡News Writing	5
61. ‡Community Newspaper	3
Mil. Sci. or Phys. Educ.	
‡Mil. Sci. or Phys. Educ.	5
Music	
1, 2, 3. Music Appreciation	6
4, 5, 6. History of Music	6
Painting	
56-57-58. Drawing and Painting	9
Philosophy	
5. ‡Introduction to Logic[4]	5
Psychology	
1. ‡General Psychology	5
Science	15
Sociology	
55. Human Ecology	5
56. Family Life	3
63. Community Organization	5
71. Immigration	5

[1]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.

[2]English 66 may be substituted for either English 64 or English 65.

[3]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.

[4]Philosophy 1 or Philosophy 3 may be substituted for this requirement.

THIRD YEAR

Architecture	Credits
101-102-103. History of Architecture	6
Astronomy	
1. Introduction to Astronomy	1
Dramatic Art	
101-102-103. Play Acting and Producing	4
111-112-113. Play Writing	15
Economics	
54, 55, 56. ‡Business Law	9
138. Sales Management	5
English	
70-71. ‡Shakespeare[5]	6
98. †The Bible as Literature	3
104-105-106. Contemporary Literature	9
136, 137, 138. †Main Tendencies	9
History	
130. Europe, 1814-1870	5
131. Europe since 1870	5
147. Civil War Period	3
148. Reconstruction Period	3
149. National Development	5
Journalism	
90, 91, 92. ‡Current Events	1
101. ‡Reporting	5
104. †Newspaper Administration	2
105. The Sporting Page	2
109. Literary and Dramatic Reviewing	2
115. ‡Elements of Publishing	3

Journalism	Credits
120. ‡Copy Reading	5
128. Work of the Foreign Correspondent	3
130. †Fundamentals of Advertising	5
131. †Display Advertising	5
133. Advertising Typography	5
135. Publicity	2
136. †Comparative Journalism	3
138. ‡History of Journalism	5
140. ‡Business Office	5
Foreign Language	10
Latin	
11. ‡Roman Civilization[3]	5
Oriental History	
114-115-116. History of Religion	9
Philosophy	
101-102-103. History of Philosophy	9
Political Science	
Approved Electives	12
Psychology	
100. Mental Tests	3
111. History of Psychology	2
126. Abnormal Psychology	3
Romanic Language	
118, 119, 120. Survey of French Literature	9
Science	15
Sociology	
130. The Social Survey	5
131. Social Statistics	5

FOURTH YEAR

Economics	Credits
121. Corporation Finance	5
150. Railroad Finance	5
161. American Labor Problems	5
162. European Labor Problems	5
175. Advanced Business Statistics	5
198. Research in Marketing and Advertising	5
English	
161-162-163. History of American Culture	9
164, 165, 166. American Literature since 1870	9
174-175-176. †Nineteenth Century English Poetry	9
Foreign Language	10
History	
158. †The Pacific Rim	3
163-164-165. †Northwestern History	6

Journalism	Credits
145. ‡Law of the Press	3
150. ‡Editorial Writing	5
160. Trade Journalism	5
170-171-172. Magazine and Feature Writing	6
173. The Short Story	3
174-175. Short Story Writing	6
188. News Writing for Teachers	2
Political Science	
Approved Electives	10
Science	15
Sociology	
155. Social Legislation	3
156. Criminology	5

Advertising.—Students expecting to make advertising a profession should elect the following courses from those scheduled above: Architecture 112, 113 (Freehand Drawing); Economics 70 (Economics of Markets); Economics 138 (Sales Management); Economics 175 (Business Statistics); Economics 180 (Trade of the Americas); Journalism 130 (Fundamentals of Advertising); Journalism 131 (Display Advertising); Journalism 133 (Advertising Typography); Journalism 160 (Trade Journalism); Painting and Design 56-57-58 (Illustration). 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 170-2 (Magazine Writing), Journalism 173-5 (Short Story Writing), Dramatic Art 101-3 (Play Acting and Producing),

[3]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.

[5]English 72 may be substituted for either English 70 or English 71.

Dramatic Art 111-113 (Play Writing), Psychology 1 (General Psychology), Psychology 118 (Folk Psychology), Psychology 126 (Abnormal Psychology), Psychology 131 (Child Psychology).

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

COLLEGE OF ENGINEERING

THE FACULTY, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*

John Thomas Condon, LL.M. (Northwestern) ..... *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 Allen Loew, B.S., E.E. (Wisconsin) ..... *Professor of Electrical Engineering*

Frederick Kurt Kirsten, B.S., 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) ..... *Associate Professor of Mechanical Engineering*

Charles Culberton May, B.S., (C.E.) (Washington) ..... *Associate Professor of Civil Engineering and Architecture*

Ira Leonard Collier, B.S., 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*

Elgin 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. Bueschlein, B.S. (Ch.E.) (California Institute of Technology) M.S. (Ch.E.) (Washington) ..... *Assistant Professor of Chemical Engineering*

Waldo Semon, Ph.D. (Washington) ..... *Instructor in Chemical Engineering*

James Baker Hamilton, B.S. (C.E.) (Washington) ..... *Instrutor in Civil Engineering*

Byron Towne McMinn, B.S. (Oregon Agricultural College) ..... *Instructor in Mechanical Engineering*

Robert H. G. Edmonds, B.S. (Whitman), B.S. (M.E.) (Washington) ..... *Instructor in Mechanical Engineering*

George Lisle Hoard, M.S. (E.E.) (Washington) ..... *Instructor in Electrical Engineering*

George S. Smith, B.S., E.E. (Washington) ..... *Instructor in Electrical Engineering*

Alfred Lawrence Miller, B.S. (C.E.) (Washington) ..... *Instructor in 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*

Joseph P. Dodd, B.S. (M.E.) (Washington) ..... *Instructor in Engineering*

George E. Hawthorne, B.S. (C.E.) (Washington) ..... *Instructor in Engineering*

Hiram Martin Chittenden, B.S. (C.E.) (Washington) ..... *Instructor in Engineering*

Clayton L. Sullivan ..... *Assistant in Engineering Shops*

George McPhail Smith, Ph.D. (Freiburg) ..... *Professor of Inorganic Chemistry*

*Eric Temple Bell, Ph.D. (Columbia) ..... *Professor of Mathematics*

John Weinzirl, 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) ..... *Assistant Professor of Mathematics*

Lewis Irving Neikirk, 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, Oct. 1, 1925-Feb. 1, 1926.

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 specializaton 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 enginering shops. The College of Engineering offers six four-year curricula (see page 125) leading to the degree of bachelor of science in the respective branches of engineering. Students are grouped as majoring in the departments 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 hydroelectric 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. This 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 the 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 with which it is closely associated. It deals with the unit processes 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.

Railroad Engineering, which deals with the location and construction of steam and electric railways and certain phases of their maintenance and operation.

Highway Engineering, which deals with the location, construction and maintenance of highways, including city streets and pavements.

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 wooden structures, such as bridges, buildings, dams, retaining walls, and their foundations.

Municipal Engineering, which includes certain phases of each of these branches.

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 electric 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 hydroelectric 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; naval architecture

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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 (woodwork)	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 mulitiplication and division, the use of parentheses, the solving of numerical and literal equations of the first and second degrees, the simplifications 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 mastr 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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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	5	Gen. Chem. 2 or 22	5	Gen. Chem. 3 or 23	5
Drawing, G.E. 1	3	Drawing, G.E. 2	3	Surveying, G.E. 21	3
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16⅔		16⅔		16⅔

IN CHEMICAL ENGINEERING

Leading to the degree of Bachelor of Science in Chemical Engineering

FRESHMAN

The same for all curricula. See above.

SOPHOMORE

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Physics 97	5	Physics 98	5	Physics 99	5
Qual. Chem. 101	5	Quant. Chem. 109	5	Quant. Chem. 110	5
Mechanism—M.E. 81	3	Steam Eng.—M.E. 82	3	Steam Lab.—M.E. 83	3
Dif. Cal.—Math. 61	3	Int. Cal.—Math. 62	3	Chem. Tech. Ch. 52	3
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	17⅔		17⅔		17⅔

JUNIOR

Indus. Chem. 121	5	Indus. Chem. 122	5	Indus. Chem. 123	5
English 4	3	Org. Chem. 128	5	Org. Chem. 129	5
Mach. Design—M.E. 91	2	Mach. Design—M.E. 92	2	Dir. Cur.—E.E. 121	4
E.E. 101	4	Mechanics—C.E. 131	3	D.C. Lab.—E.E. 122	2
E.E. 102	2				
	16		15		16

SENIOR

Phys. Chem. 181	5	Phys. and Theoret. Chem. 182	5	Chem. Engr. 173	3
Chem. Engr. 171	5	Chem. Engr. 172	5	Electives	13
Chem. Engr. Thesis 176	2	Chem. Engr. Thesis 177.	3		
Shop 55	1	Electives.	3		
Electives	3				
	16		16		16

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 125.

SOPHOMORE

Summer Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Mech.—C.E. 91	3	Mech.—C.E. 92	3	Mech.—C.E. 93	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.	1⅔	Calc.—Math. 61	3	Calc.—Math. 62	3
		Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16⅔		16⅔		16⅔

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 4	3	Water Sup.—C.E. 153	3
Struc. Mat'ls.—C.E. 167	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
	16		15		16

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
Elective	7	Thesis or Elective	5	Thesis or Elective	3
C.E. 139	3	Geol. 105	5	Electives	5
	16		16		16

Electives must in all cases be approved by the head of the department.

C.E. 126	5	C.E. 157	3	C.E. 160	3
				C.E. 164	5

IN ELECTRICAL ENGINEERING

Leading to the degree of Bachelor of Science in Electrical Engineering

FRESHMAN

The same for all curricula. See page 125.

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
Mach. 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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15⅔		15⅔		15⅔

JUNIOR

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. 131	3	Mechanics—C.E. 132	3	Mechanics—C.E. 133	3
English 4	3	Hydraulics—C.E. 142	5	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	5	Electives	14
Electives	3	Electives	6		
	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 125.

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. 93	2
Shop 53	1	Shop 54	1	Shop 55	1
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15⅔		15⅔		15⅔

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	3
Exp. Eng.—M.E. 151	3	Exp. Engr.—M.E. 152	3	Exp. Engr.—M.E.153	3
Eng. & Boil.—M.E. 123	3	Eng. & Boil.—M.E. 124	3	Mechanics—C.E. 133	3
Mechanics—C.E. 131	3	Mechanics—C.E. 132	3	Shop 107	1
Shop 105	1	Shop 106	1		
	16		16		15

SENIOR

Business 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. 179.	3
Mach. Des.—M.E. 101	2	Mach. Des.—M.E. 102	2	Mach. Des.—M.E. 103 or 199	3
Electives	6	Eng. Mat.—M.E. 167	3	Thesis 195	4
		Electives	5	Electives	3
	16		16		16

Electives must in all cases be approved by the head of the department.

IN NAVAL ARCHITECTURE AND MARINE ENGINEERING

FRESHMAN

The same for all curricula. See page 125.

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. 93	2
Shop 53	1	Shop 54	1	Shop 55	1
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15⅔		15⅔		15⅔

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		
Exp. Eng.—M.E. 151	3	Exp. Engr.—M.E. 152	3	Exp. Eng.—M.E. 153	3
Nav. Arch.—M.E. 185	3	Nav. Arch.—M.E. 186	3	Nav. Arch.—M.E. 187	3
Mechanics—C.E. 131	3	Mechanics—C.E. 132	3	Mechanics—C.E. 133	3
Shop 105	1	Shop 106	1	Shop 107	1
	16		16		15

SENIOR

Business Law—B.A. 54.	3	Gas. Eng.—M.E. 198	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	Mach. Des.—M.E. 103	3
English	3	Eng. Mat.—M.E. 167	3	Thesis	4
Electives	3	Electives	5	Electives	3
	16		16		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	26
Physics 97, 98, 99	15
Chemistry 1, 2, 23, or 21, 22, 23	15
English 4 (Certificate in English Composition)	3
Military Science or Physical Education	10
General Engineering 1, 2, 11, 12, 13, 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 students is registered)	26
General Electives	27
Civil Engineering 131, 132	6
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

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

ENGINEERING EXPERIMENT STATION

THE STAFF

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *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 Kreitzer 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, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*
Irving Mackey Glen, A.M. (Oregon) ..... *Professor of Music; Dean of the College of Fine Arts*
Carl Frelinghuysen Gould, A.B. (Harvard) ..... *Professor of Architecture*
Walter Isaacs, B.S. (James Millikin) ..... *Associate Professor of Fine Arts*
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*
Charles Culbertson May, M.S. (C.E.), (Washington) ..... *Associate Professor of Architecture and Civil Engineering*
Frances Dickey, A.M. (Columbia) ..... *Assistant Professor of Music*
Lousie Van Ogle ..... *Assistant Professor of Music*
Glenn Hughes, A.M. (Washington) ..... *Assistant Professor of English and Dramatic Art*
Alonzo Lewis ..... *Associate in Modeling and Sculpture*
Eugenia Worman ..... *Associate in Fine Arts*
Ambrose Patterson ..... *Associate in Fine Arts*
Alice Bogardus, B.L. (Mills) (Columbia) ..... *Associate in Music*
Anna Alfrida Storm ..... *Associate in Design*
Albert Lovejoy, B.L.I. (Emerson College of Oratory) ..... *Associate in Dramatic Art*
Luella Venino ..... *Associate in Music*
Clara Belle Lynch ..... *Associate in Music*
Burton Wakefield James, (Cornell), (Emerson College of Oratory) ..... *Associate in Dramatic Art*
Albert Porter Adams ..... *Instructor in Music*
Annette Edens, (New York School of Fine and Applied Arts; Columbia) .... *Instructor in Design*
George C. Kirchner (Leipzig) ..... *Instructor in Music*
Eilene French, B.Mus. (Washington), M.A. (Columbia) ..... *Instructor in Music*
Edna Mabon, Graduate (Conservatory of Music, Carleton College) ..... *Associate in Music*
Margaret Crawford, A.M. (Columbia ..... *Associate in Dramatic Art*
Helen Rhodes, (Columbia) ..... *Instructor in Design*
Hope Foote, A.M. (Columbia) ..... *Instructor in Interior Decoration*
Arthur Herrman, A.B. (Arch.), (Carnegie Institute of Technology) .. *Assistant Professor of Architecture*
Lancelot Gowen, A.M. (Arch.), (California) ..... *Assistant Professor of Architecture*
Louise Benton Oliver, B.Mus. (Washington) ..... *Assistant in Music*
Iris Fern Canfield, B.Mus. (Washington) ..... *Assistant in Music*
Ruth Frances Allen, B.Mus. (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. (Chicago) .... *University Health Officer and Professor of Hygiene*
Charles Church More, C.E., M.S. (Lafayette), M.C.E. (Cornell) ..... *Professor of Structural Engineering*
Eric Temple Bell, Ph.D. (Columbia) ..... *Professor of Mathematics*
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 Romanic Languages*
Curt John Ducasse, Ph.D. (Harvard) ..... *Associate Professor of Philosophy*
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 German*
Harvey Bruce Densmore, A.B. (Oxford) ..... *Assistant Professor of Greek*
Leslie Spier, Ph.D. (Columbia) ..... *Assistant Professor of Anthropology*

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 architecture. 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 drawing, or music and drawing. Two-year curricula lead to certificates of proficiency for supervisors of art and music. 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.

The attention of all students in the College of Fine Arts is directed to the course described elsewhere as Liberal Arts 11—*Introduction to the Study of Fine Arts,* given by Professor Herbert E. Cory with the assistance of members of the fine arts faculty.

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. This will necessitate a total of at least 192 credits.

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. Before graduation, such students must satisfy specific requirements for the degree not fairly covered by previous work.

Dramatic Art.—See section, Departments of Instruction printed elsewhere in this catalogue.

ARCHITECTURE

Methods of Instruction.—The plan of study recognizes that architecture is essentially a scientific art, the practice of which must be based on a thorough knowledge of construction and the practical requirements of buildings. Technical training which has not recognized the importance of the principles of design has failed notably to raise the skilled draftsman to the position of an architect.

The University recognizes that its function in teaching this profession is not only that students may obtain a general knowledge of architecture, but also that they may be able to cope with problems that occur in actual practice.

Design.—A knowledge of design is the most essential subject in a course preparing students for the profession of architecture. The program of studies is so arranged, therefore, that most weight is given to these subjects. The student gives the greater part of his afternoons to work in the drafting room. This work consists largely of problems in architectural design presented as far as possible to develop technical skill without hindering individuality of expression. After the freshman year problems will be judged by a committee of practicing architects and faculty appointed by the head of the department. Most of the work is done under the programs of the Beaux Arts Institute of Design, New York, and is sent there for judgment where it is placed in competition with work of the leading schools of architecture in this country. All drawings made by the students are the property of the department until returned.

Construction.—The theory and practice of construction is taught as a necessary basis for and in connection with architectural design. It prepares students in the best way for architectural practice. The department strongly recommends that the student supplement his university training by work in an architect's office. Three months of office work at least should be done by the student before he obtains his degree.

Business.—Besides the two main branches of architecture—design and construction—a third important factor in modern practice is business. A portion of the senior year is taken up by business subjects.

Allied Subjects.—Closely allied with each of the two main branches are various other subjects. History of architecture, freehand drawing and modelling are properly related to design; mathematics, physics, and the like, are taught in their proper relation to construction.

Thesis.—A thesis, the subject of which is chosen by the student and approved by the faculty, must be completed before the student is eligible for a degree. This involves the design of a building, some construction details in connection with it, and various reports as to the theory of the design, technical requirements, and the like. It is done by program, under criticism, as a seven credit hour course in the spring quarter of the senior year, and is judged and passed on by a committee of three members of the faculty.

Required for Degree.—The credit requirement for graduation (outside of military science and physical education) is set by this curriculum at 194 credits. Because of the manifold requirements relative to a well rounded architectural education, no deviation or substitution of courses will be permitted except by consent of the head of the department, where it can be shown that work similar to the subjects in question has been done. In the courses of design, Arch. 54, 55, 56, Grade I; Arch. 104, 105, 106, Grade II; and Arch. 154, 155, Grade III; however, a student may in some cases advance more rapidly and satisfy by perfection of work the requirements of a grade without technical registration for all three quarters of that grade. In such cases, which will only be by points of excellence as granted by the system of the Beaux Arts Institute of Design, New York, a student may be excused by the department from registering in all of the courses in a grade, and still be allowed to graduate. The total number of credits hereby reduced must not be below the university minimum of 180 credits.

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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 Fine Arts should elect his work so as to offer the following subjects:

A foreign language.....at least 2 units
A history (American preferred) or U.S. history and civics .....1 unit
A science (physics, chemistry, botany, or zoology)...1 unit

If he shall not have included these subjects in his high school elections, it will be necessary for him to include them among his elections in college.

If the required foreign language has not been taken in high school, it will have to be made up without college credit, reducing the amount of regular college work that the student may carry during the first four quarters.

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.

CURRICULA

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.

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN APPLIED MUSIC

(Piano, Violin, Voice, Violoncello, Organ)

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Music 1 Appreciation	2	Music 2 Appreciation	2	Music 3 Appreciation	2
4 History	2	5 History	2	5 History	2
*7 Sight Singing	2	*8 Sight Singing	2	*9 Sight Singing	2
14 Ear Training	2	15 Ear Training	2	16 Ear Training	2
18 Applied	3	19 Applied	3	20 Applied	3
10 Chorus or elect.	1	‡11 Chorus or elect.	1	‡12 Chorus or elect.	1
English 1	3	English 2	3	English 3	3
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	16⅔		16⅔		16⅔

SECOND YEAR

Music 10 Cho. or elect.	1	‡Music 11 Cho. or elect.	1	‡Music 12 Cho. or elect.	1
68 Applied	3	69 Applied	3	70 Applied	3
51 Harmony	3	52 Harmony	3	53 Harmony	3
Pol. Sci., Soc., or Econ.	5	Physics 50	5	Physics 51	5
Foreign Language	5	Foreign Language	3	Foreign Language	3
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	18⅔		16⅔		16⅔

THIRD YEAR

Music 10 Cho. or elect.	1	‡Music 11 Cho. or elect.	1	‡Music 12 Cho. or elect.	1
118 Applied	3	110 Applied	3	120 Applied	3
101 Adv. Harmony	3	102 Adv. Harmony	3	103 Adv. Harmony	3
104 Adv. History	2	105 Adv. History	2	106 Adv. History	2
107 Counterpoint	2	108 Counterpoint	2	109 Counterpoint	2
110 Instr. Form	2	111 nIstr. Form	2	112 Intsr. Form	2
Foreign Language	3	Foreign Language	3	Foreign Language	3
	16		16		16

*Students with experience in sight reading will substitute one or more quarters of advanced sight singing to total six credits.

‡Only those who have successfully completed the work in Mus. 11 will be eligible for registration in Mus. 12.

FOURTH YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Music 10 Cho. or elect..	1	‡Music 11 Cho. or elect..	1	‡Music 12 Cho. or elect..	1
168 Applied	3	169 Applied	3	170 Applied	3
157 Composition	2	158 Composition	2	159 Composition	2
151 Adv. Apprec.	2	152 Adv. Apprec. ...	2	153 Adv. Apprec.....	2
Philosophy 129 Aesth...	5	Electives	8	199 Sr. Program* ...	2
Electives	3			Electives	5
	16		16		15

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN COMPOSITION

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Music 1 Appreciation ...	2	Music 2 Appreciation....	2	Music 3 Appreciation....	2
4 History	2	5 History	2	6 History	2
14 Ear Training	2	15 Ear Training	2	16 Ear Training	2
51 Beg. Harmony	3	52 Beg. Harmony ..	3	53 Beg. Harmony ..	3
18 Applied	3	19 Applied	3	20 Applied	3
English 1	3	English 2	3	English 3	3
Phys. Ed. or Mil. Sci...1⅔		Phys. Ed. or Mil. Sci...1⅔		Phys. Ed. or Mil. Sci...1⅔	
	16⅔		16⅔		16⅔

SECOND YEAR

Music 10 Cho. or elect...	2	‡Music 11 Cho. or elect..	1	‡Music 12 Cho. or elect.	1
101 Adv. Harmony ...	3	102 Adv. Harmony ...	2	103 Adv. Harmony ..	3
107 Counterpoint	2	108 Counterpoint	2	109 Counterpoint . ..	2
Foreign Language	5	Foreign Language	3	Foreign Language	3
Pol. Sci., Soc., or Ec..	5	Physics 50	5	Physics 51	5
Phys. Ed. or Mil. Sci...1⅔		Phys. Ed. or Mil. Sci...1⅔		Phys. Ed. or Mil. Sci...1⅔	
	18⅔		15⅔		15⅔

THIRD YEAR

Music 10 Cho. or elect..	3	‡Music 11 Cho. or elect.	1	‡Music 12 Cho. or elect.	1
68 Applied	3	69 Applied	3	70 Applied	3
110 Instr. Form	2	111 Instr. Form	2	112 Instr. Form	2
157 Composition	2	158 Composition	2	159 Composition	2
104 Adv. History	2	105 Adv. History	2	106 Adv. History ...	2
Foreign Language	3	Foreign Language	3	Foreign Language	3
Electives	2	Electives	2	Electives	2
	17		15		15

FOURTH YEAR

Music 10 Cho. or elect..	1	‡Music 11 Cho. or elect.	1	‡Music 12 Cho. or elect.	1
118 Applied	3	119 Applied	3	120 Applied	3
151 Adv. apprec. ...	2	152 Adv. apprec.	2	153 Adv. apprec. ...	2
161 Polyphonic	2	162 Polyphonic	2	163 Polyphonic	2
201 Adv. Comp.	2	202 Adv. Comp.	2	203 Adv. Comp.	2
204 Orchestra	2	205 Orchestra	2	206 Orchestra	2
Philosophy 129 Aesth..	5	Electives	5	Electives	5
	17		17		17

*As a substitute for the senior program, the student may have the option of offering an approved original composition or work in an elective course approved by the advisor and the dean. This option will be withdrawn after 1925-26.

‡Only those who have successfully completed the work in Mus. 11 will be eligible for registration in Mus. 12.

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN PUBLIC SCHOOL MUSIC†

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Music 1 Appreciation...	2	Music 2 Appreciation...	2	Music 3 Appreciation...	2
4 History	2	5 History	2	6 History	2
**7 Sight Singing	2	**8 Sight Singing	2	**9 Sight Singing.....	2
10 Chor. or elect. ...	1	‡11 Chorus or elect....	1	‡12 Chorus or elect....	1
14 Ear Training	2	15 Ear Training	2	16 Ear Training	2
18 or 34 Applied...	3	19 or 35 Applied....	3	20 or 36 Applied.....	3
English 1	3	English 2	3	English 3	3
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔
	16⅔		16⅔		16⅔

SECOND YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Music 51 Harmony....	3	Music 52 Harmony....	3	Music 53 Harmony....	3
54 Schol Music	2	55 School Music	2	56 School Music	2
10 Chorus or elect....	1	11 Chorus or elect....	1	12 Chorus or elect....	1
Electives	5	Physics 50	5	Physics 51	5
Foreign Language	3	Foreign Language	3	Foreign Language	3
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔
	15⅔		15⅔		15⅔

THIRD YEAR

Music 68 Applied	3	Music 69 Applied	3	Music 70 Applied	3
101 Adv. Harmony ...	3	102 Adv. Harmony ..	3	103 Adv. Harmony ..	3
118 Education	2	114 Education	2	Education 160N	2
Foreign Language	5	Education 101	5	Education 110	5
Econ., Pol. or Soc. Sci.	5	Foreign Language	3	Foreign Language	3
	18		16		16

FOURTH YEAR

Music 107 Counterpoint.	2	Music 108 Counterpoint.	2	Music 109 Counterpoint.	2
110 Instr. Forms ..	2	111 Instr. Forms.....	2	112 Instr. Forms	2
151 Adv. Apprec.	2	152 Adv. Apprec.	2	153 Adv. Apprec.	2
154 Ed. & Superv.....	2	155 Ed. & Superv....	2	156 Ed. & Superv.....	2
Phil. 129 Aesthetics...	5	Education 119	3	Electives	2
Electives	2	Electives	4	Education 145	5
	15		15		15

FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
*Music, electives	3	*Music, electives	3	*Music, electives	3
English 1	3	English 2	3	English 3	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Chem., Bot. or Zool....	5	Chem., Bot. or Zool....	5	Elective	3
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔
	17⅔		17⅔		15⅔

SECOND YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
*Music, electives	5	Music, electives	5	Music, electives	5
Econ. or Pol. or Soc. Sci.	5	Physics 50	5	Physics 51	5
For. Lang. or elective.	5	Electives	5	Electives	5
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔
	16⅔		16⅔		16⅔

*(1) Among the music courses indicated above the following are required: 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 51, 52, 53, 101, 102, 103.

†The completion of this curriculum will entitle the graduate to receive the University normal diploma.

**Students who have had experience in sight reading will substitute one or more quarters of advanced sight singing.

THIRD YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Music, electives	6	Music, electives	6	Music, electives	6
†Lib. Arts, electives	10	†Lib. Arts, electives	10	Electives	5
				†Lib. Arts, electives	5
	16		16		16

FOURTH YEAR

Music, electives	5	Music, electives	5	Music, electives	5
†Lib. Arts, electives	5	†Lib. Arts, electives	10	†Lib. Arts, electives	10
Phil. 129 Aesth.	5				
	15		15		15

CURRICULUM IN ARCHITECTURE LEADING TO THE DEGREE OF BACHELOR IN ARCHITECTURE

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Arch. 1 Arch. Apprec.	2	Arch. 2 Arch. Apprec.	2	Arch. 3 Arch. Apprec.	2
Arch. 4 Elem. of Design	4	Arch. 5 Elem. of Design	4	Arch. 6 Elem. of Design	4
Arch. 7 Graphics	1	Arch. 8 Graphics	1	Arch. 9 Graphics	1
Arch. 47 Elem. Build. Con.	3	Arch. 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.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	17⅔		17⅔		19⅔

SECOND YEAR

Arch. 51 Hist. of Arch.	2	Arch. 52 Hist. of Arch.	2	Arch. 53 Hist. of Arch.	2
Arch. 54 Des., Grade I	3	Arch. 55 Design, Gr. I.	3	Arch. 56 Design, Gr. I.	3
Arch. 60 Working Drgs.	2	Arch. 61 Working Drgs.	2	Arch. 62 Working Drgs.	2
Math. 54 Triginometry	3	Math. 55 Algebra	3	Math. 56 Anal. Geom.	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	16⅔		16⅔		16⅔

THIRD YEAR

Arch. 101 Hist. of Arch.	2	Arch. 102 Hist. of Arch.	2	Arch. 103 Hist. of Arch.	2
Arch. 104 Design, Gr. II	5	Arch. 105 Design, Gr. II	5	Arch. 106 Design, Gr. II	5
Arch. 112 Freeh'd Draw.	2	Arch. 113 Freeh'd Draw.	2	Arch. 114 Water Color.	2
C.E. 130 Theory of Con.	3	Arch. 117 Build. Const.	3	Arch. 118 Build Const.	3
Phys. 1 General	4	Phys. 2 General	5	Phys. 113 Acous. & Ill.	4
	16		17		16

FOURTH YEAR

Arch. 151 Hist. of Arch.	2	Arch. 152 Theory of Ar.	2	Arch. 153 Ar. Materials.	2
Arch. 154 Design, Gr.III	7	Arch. 155 Design, Gr.III	7	Arch. 116 Spec.&Off.Pr.	2
Arch. 160 Pencil Sketch	1	Arch. 162 Modelling	1	Arch. 156 Thesis & Sem.	8
B.A. 54 Bus. Law	3	C.E. 106 San. & Plumb.	2	Arch. 161 Pencil Sketch	1
E.E. 105 Elec. Wiring	2	P.S.D. 161 Life Draw.	3	Arch. 163 Modelling	1
P.S.D. 160 Life Draw.	3			M.E. 107 Heat. & Vent.	2
	18		15		16

†Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

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
P.S.D. 9 Art Struc.	3	P.S.D. 10 Art Struc.	3	P.S.D. 11 Art Struc.	3
P.S.D. 16 Art. Apprec.	1	P.S.D. 17 Art Apprec.	1	P.S.D. 18 Art Apprec.	1
English Composition	3	English Composition	3	English Composition	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	16⅔		16⅔		16⅔

SECOND YEAR

P.S.D. 53 Art Struc.	3	P.S.D. 54 Art Struc.	3	P.S.D. 55 Art Struc.	3
P.S.D. 56 Drwg. & Ptg.	3	P.S.D. 57 Drwg. & Ptg.	3	P.S.D. 58 Drwg. & Ptg.	3
Foreign Language	5	Greek or Rom. Art.	1	Greek or Rom. Art.	1
Greek or Rom. Art.	1	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
Phys. Ed. or Mil. Sci.	1⅔	Electives	8	Electives	8
Electives	3				
	16⅔		16⅔		16⅔

THIRD YEAR

P.S.D. 126 Hist. of Ptg.	1	P.S.D. 127 Hist. of Ptg.	1	P.S.D. 128 Hist. of Ptg.	1
P.S.D. 103 Pottery	3	P.S.D. 104 Pottery	3	Arch. 3 Arch. Apprec.	2
P.S.D. 107 Portrait	3	P.S.D. 108 Portrait	3	P.S.D. 109 Portrait	3
Pol. Sci., Ec. or Soc.	5	Laboratory Science	5	Laboratory Science	5
Electives	3	Electives	3	Electives	4
	15		15		15

FOURTH YEAR

P.D.D. 157 Art Struc.	3	P.D.S. 158 Art. Struc.	3	P.S.D. 152 Art Struc.	3
P.S.D. 160 Life	3	P.S.D. 161 Life	3	P.S.D. 162 Life	3
Electives	9	Electives	9	Electives	9
	15		15		15

FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN PUBLIC SCHOOL ART

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
P.S.D. 9 Art. Struc.	3	P.S.D. 10 Art. Struc.	3	P.S.D. 11 Art. Struc.	3
P.S.D. 16 Art. Apprec.	1	P.S.D. 17 Art. Apprec.	1	P.S.D. 18 Art. Apprec.	1
English Composition	3	English Composition	3	English Composition	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	16⅔		16⅔		16⅔

SECOND YEAR

P.S.D. 53 Art Struc.	3	P.S.D. 54 Art Struc.	3	P.S.D. 55 Art Struc.	3
P.S.D. 56 Drwg. & Ptg.	3	P.S.D. 57 Drwg. & Ptg.	3	P.S.D. 58 Dwg. & Ptg.	3
Foreign Language	5	Pol. Sci., Ec., or Soc.	5	Phys. Ed. or Mil. Sci.	1⅔
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Electives	9
Electives	3	Electives	3		
	15⅔		15⅔		16⅔

THIRD YEAR

P.S.D. 107 Portrait	3	P.S.D. 108 Portrait	3	P.S.D. Portrait	3
Greek or Rom. Art.	1	Greek or Roman Art.	1	Greek or Roman Art	1
Education 101	5	Laboratory Science	5	Education 110	5
P.S.D. 105 Art Struc.	3	P.S.D. 106 Art Struc.	3	Laboratory Science	5
P.S.D. 126 Hist. of Ptg.	1	P.S.D. 127 Hist. of Ptg.	1	P.S.D. 128 Hist. of Ptg.	1
Electives	3	Electives	3		
	16		16		16

FOURTH YEAR

P.S.D. 157 Art Struc.	3	P.S.D. 158 Art Struc.	3	P.S.D. 152 Art Struc.	3
P.S.D. 101 Pub.Schl.Art	2	Education 119	3	Education 160-P	2
Philosophy 120	5	P.S.D. 102 Pub.Schl.Art.	2	Education 145	5
Electives	5	Electives	7	Electives	5
	15		15		15

FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN INTERIOR DECORATION

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
P.S.D. 9 Art Struc...	3	P.S.D. 10 Art Struc...	3	P.S.D. 11 Art Struc.....	3
P.S.D. 16 Art. Apprec..	1	P.S.D. 17 Art Apprec...	1	P.S.D. 18 Art Apprec...	1
English Composition	3	English Composition	3	English Composition	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔
	16⅔		16⅔		16⅔

SECOND YEAR

P.S.D. 59 Hshld Des. .	3	P.S.D. 60 Hshld Des...	3	P.S.D. 61 Hshld Des...	3
Arch. 1 Appreciation..	2	Arch. 2 Arch. Apprec...	2	Arch. 3 Arch. Apprec...	2
Arch. 4 Elem. of Des..	4	Arch. 5 Elem. of Arch.	4	Arch. 6 Elem. of Arch.	4
Arch. 7 Graphics.....	1	Arch. 8 Graphics	1	Arch. 9 Graphics	1
P.S.D. 80 Furn. Des...	2	P.S.D. 81 Furn. Des. ..	2	P.S.D. 82 Furn. Des..	2
Foreign Language	3	Fr. Lang.	2	Electives	3
Phys. Ed. or Mil. Sci...	1⅔	Elective	1	P.E. or M.S.	1⅔
		P.E. or M.S.	1⅔		
	16⅔		16⅔		16⅔

THIRD YEAR

P.S.D. 110 Int. Dec..	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
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. 174 Int. Dec...	5
P.S.D. 126 Hist. of Ptg.	1	P.S.D. 127 Hist. of Ptg.	1	P.S.D. 128 Hist. of Ptg.	1
Greek or Roman Art..	1	Greek or Roman Art..	1	Greek or Roman Art..	1
House Furn. 143.....	3	Electives	8	Electives	8
Electives	5				
	15		15		15

MAJOR IN PAINTING

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	P.S.D. 7 Drawing	3
P.S.D. 5 Drawing.....	3	P.S.D. 6 Drawing.....	3	*P.S.D. 11 Art Struc...	3
P.S.D. 9 Art Struc.....	3	*P.S.D. 10 Art Struc...	3	P.S.D. 18 Art Apprec..	1
P.S.D. 16 Art Apprec..	1	P.S.D. 17 Art Apprec..	1	English Composition ..	3
English Composition	3	English Composition	3	Foreign Language	5
Foreign Language	5	Foreign Language	5	Phys. Ed. or Mil. Sci...	1⅔
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔		
	16⅔		16⅔		16⅔

SECOND YEAR

P.S.D. 56 Painting ..	3	P.S.D. 57 Painting.....	3	P.S.D. 58 Painting....	3
P.S.D. 65 Draw. & Ptg.	3	P.S.D. 66 Draw. & Ptg.	3	P.S.D. 67 Draw. & Ptg.	3
Greek or Roman Art....	1	Greek or Roman Art..	1	Greek or Roman Art....	1
Foreign Language	5	Electives	9	Electives	9
Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔	Phys. Ed. or Mil. Sci...	1⅔
Electives	4				
	17⅔		17⅔		17⅔

THIRD YEAR

P.S.D. 105 Art Struc...	3	P.S.D. 106 Art Struc...	3	Arch. 3 Arch. Apprec...	2
P.S.D. 107 Portrait....	3	P.S.D. 108 Portrait....	3	P.S.D. 109 Portrait....	3
P.S.D. 126 Hist. of Ptg.	1	P.S.D. 127 Hist. of Ptg.	1	P.S.D. 128 Hist. of Ptg.	1
Pol. Sci, Ec., or Soc..	5	Laboratory Science	5	Laboratory Science	5
Electives	3	Electives	3	Electives	4
	15		15		15

FOURTH YEAR

P.S.D. 160 Life.....	3	P.S.D. 161 Life	3	P.S.D. 162 Life.....	3
P.S.D. 168 Comp.....	3	P.S.D. 164 Comp.....	3	P.S.D. 165 Comp.....	3
Electives	9	Electives	9	Electives	9
	15		15		15

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF ARTS IN DRAMATIC ART

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Dram. Art 4	3	Dram. Art 5	3	English Composition	3
English Composition	3	English Composition	3	Foreign Language	5
Foreign Language	5	Foreign Language	5	Electives	8
Chem., Bot. or Zool.	5	Chem., Bot. or Zool.	5	Phys. Ed. or Mil. Sci.	1⅔
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔		
	17⅔		17⅔		17⅔

SECOND YEAR

Dram. Art 61	5	Dram. Art 62	5	Dram. Art 63	5
Foreign Language	5	Psychology	5	Pol. Sci., Soc. or Econ.	5
Electives	5	Electives	5	Electives	5
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	16⅔		16⅔		16⅔

THIRD YEAR

Dram. Art 101	5	Dram. Art 102	5	Dram. Art 103	5
Dram. Art 104	5	Dram. Art 105	5	Dram. Art 106	5
Dram. Art 127	5	‡Lib. Art Electives	5	‡Lib. Arts Electives	5
	15		15		15

FOURTH YEAR

Dram. Art 151	3	Dram. Art 152	3	Dram. Art 153	3
‡Lib. Arts Electives	12	‡Lib. Arts Electives	12	Education 160L	2
				‡Lib. Arts Electives	10
	15		15		15

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN DRAMATIC ART

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Dram. Art 4	3	Dram. Art 5	3	English Composition	3
English Composition	3	English Composition	3	Foreign Language	5
Foreign Language	5	Foreign Language	5	Electives	8
Chem., Bot., or Zool.	5	Chem., Bot., or Zool.	5	Phys. Ed. or Mil. Sci.	1⅔
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔		
	17⅔		17⅔		17⅔

SECOND YEAR

Dram. Art 61	5	Dram. Art 62	5	Dram. Art 63	5
Foreign Language	5	Psychology	5	Pol. Sci., Soc., or Econ.	5
Electives	5	Electives	5	Electives	5
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔
	16⅔		16⅔		16⅔

THIRD YEAR

Dram. Art 101	5	Dram. Art 102	5	Dram. Art 103	5
Dram. Art 127	5	Dram. Art 105	5	Dram. Art 106	5
Dram. Art 104	5	Electives	5	Electives	5
	15		15		15

FOURTH YEAR

Dram. Art Electives	3	Dram. Art Electives	3	Dram. Art Electives	3
Dram. Art 151	3	Dram. Art 152	3	Dram. Art 153	3
Phil. 129 (Aesthetics)	5	Electives	9	Education 160L	2
Electives	4			Electives	7
	15		15		15

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

‡Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

COLLEGE OF FISHERIES

THE FACULTY, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*
John N. Cobb ..... *Professor of Fisheries; Director of the College of Fisheries*
Carl R. Fellers, Ph.D. (New Jersey State College) ..... *Associate Professor of Food Preservation*
Harold Nightingale, M.S. in Fisheries (Washington) ..... *Instructor in Fisheries*
Donald R. Crawford, B.S. (Washington) ..... *Instructor in Fish Culture*

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 and Director of the Physics Laboratories.*
Charles Willis Johnson, Ph.C., Ph.D. (Michigan) ..... *Professor of Pharmaceutical Chemistry, 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. (Chicago) ..... *University Health Officer; Professor of Hygiene*
Henry Kreitzer 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*
George McPhail Smith, Ph.D. (Freiburg) ..... *Professor of Inorganic Chemistry*
William Daniel Moriarty, Ph.D. (Chicago) ..... *Professor of Business Administration*
William Edward Cox, A.M. (Texas) ..... *Professor of Business Administration*
George Samuel Wilson, B.S. (Nebraska) ..... *Professor of Mechanical Engineering*
George Burton Rigg, Ph.D. (Chicago) ..... *Associate Professor of Botany*
Herman Vance Tartar, B.S. (Oregon Agricultural College) ..... *Associate Professor of Chemistry.*
Macy Millmore Skinner, Ph.D. (Harvard) .... *Associate Professor of Business Administration*
John Earl Guberlet, Ph.D. (Illinois) ..... *Associate Professor of Zoology*
Elgin Roscoe Wilcox, Met.E. (Washington) ..... *Assistant Professor of Civil Engineering*
Thomas G. Thompson, Ph.D. (Washington) ..... *Associate Professor of Chemistry*
Eli Victor Smith, Ph.D. (Northwestern) ..... *Assistant Professor of Zoology*
Raymond Forrest Farwell, A.B. (California) ..... *Instructor in Maritime Commerce*
Sargent Powell, Ph.D. (Illinois) ..... *Instructor in Chemistry*
Warren Lord Beuschlein, B.S. (Ch.E.) (California Institute of Technology), M.S. in Ch.E. (Washington) ..... *Instructor in Chemical Engineering*

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, smokehouses, 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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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 admittted to graduate standing.

Short Courses for Fishermen and Food Preservers.—These courses will be given each winter quarter, provided there are a sufficient number of applicants. Applicants must be at least twenty years old and show ability to carry the work with profit to themselves. Admission to courses is without examination. Examinations will be given in the various subjects at the close of the course and a certificate showing the work satisfactorily covered issued to each student.

Fisheries Laboratories.—See page 33.

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 histories 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 U. S. 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. 57, Money and Banking; B.A. 105, Business Organization; B.A. 70, Economics of Markets; B.A. 137, Advertising; B.A. 167, Plant Management; Bact. 103, Public Hygiene; Bot. 130, Economic Marine Botany; 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); Physics 3; Zool. 60, 61, Comparative Anatomy; Zool. 101, Cytology; Physiology 7; Elementary Physiology.

I. FISH CULTURE

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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	3
Mil. Sci. or Phys. Ed.	1⅗	Mil. Sci. or Phys. Ed.	1⅗	Mil. Sci. or Phys. Ed.	1⅗
	16⅗		16⅗		16⅗

SECOND YEAR

Fisheries 53	5	Fisheries 54	5	Fisheries 55	5
Bact. 101	5	Bact. 102	5	B.A. 3	3
App. Electives	5	App. Electives	5	Botany 53	5
Mil. Sci. or Phys. Ed.	1⅗	Mil. Sci. or Phys. Ed.	1⅗	App. Electives	2
	16⅗		16⅗	Mil. Sci. or Phys. Ed.	1⅗
					16⅗

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	Zoology 107—Parasitology	5
	15		15		15

FOURTH YEAR

Fisheries 150	5	Fisheries 151	5	Fisheries 152	5
Fisheries 154	5	App. Electives	10	Fisheries 115	3
Fisheries 195	2		15	Fisheries 196	2
App. Electives	3			Zoology 108—Limnology	5
	15				15

GRADUATE

Fisheries 201 ... Research* Fisheries 202 ... Research* Fisheries 203 ... Research*

II. FISHERIES TECHNOLOGY

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	App. Electives	2
	16⅔		16⅔	Mil. Sci. or Phys. Ed.	1⅔
					16⅔

SECOND YEAR

Fisheries 53	5	Fisheries 54	5	Fisheries 55	5
Bact. 101	5	Bact 102	5	Chemistry 129	5
App. Electives	5	Chemistry 128	5	App. Electives	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16⅔		16⅔		16⅔

THIRD YEAR

Fisheries 107	5	Fisheries 104	5	Fisheries 105	5
Fisheries 147	3	Math. 13	5	Fisheries 108	5
Fisheries 130	5	App. Electives	5	App. Electives	5
App. Electives	2		15		15
	15				

FOURTH YEAR

Fisheries 150	5	Fisheries 151	5	Fisheries 152	5
B.A. 54	3	B.A. 55	3	Fisheries ~~175~~	3
B.A. 62	5	B.A. 63	5	Fisheries 196	2
Fisheries 195	2	App. Electives	2	App. Electives	5
	15		15		15

GRADUATE

Fisheries 201 ... Research* Fisheries 202 ... Research* Fisheries 203 ... Research*

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

WINTER SESSION FOR FISHERMEN AND OTHERS

The regular annual session for fishermen and others will open on January 6, 1926, continuing until about March 1. A comprehensive program of short courses covering all branches of the above work is offered for the

*Time and credit to be arranged.
**Offered if elected by a sufficient number of students.

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.

benefit of persons interested. Admission to the courses is without examination. No previous preparation, training or technical experience is required other than ability to read and write English. Past experience and future aims of each student are taken into consideration, and the character of his work arranged accordingly.

COLLEGE OF FORESTRY

THE FACULTY, 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*
Hugo Winkenwerder, M.F. (Yale) .... *Professor of Forestry; Dean of the College of Forestry*
Burt Persons Kirkland, A.B. (Cornell) ..... *Professor of Forestry*
Elias Treat Clark, M.F. (Yale) ..... *Professor of Forestry*
Bror Leonard Grondal, M.S.F. (Washington) ..... *Associate Professor of Forestry*

Trevor Kincaid, A.M. (Washington) ..... *Professor of Zoology*
David Connolly Hall, M.D. (Chicago) ..... *University Health Officer; Professor of Hygiene*
Henry Kreitzer Benson, Ph.D. (Columbia) ..... *Professor of Chemical Engineering*
George Samuel Wilson, B.S. (Nebraska) ..... *Professor of Mechanical Engineering*
George Irving Gavett, B.S. (C.E.), (Michigan) ..... *Assistant Professor of Mathematics*
John William Hotson, Ph.D. (Harvard) ..... *Assistant Professor of Botany*
Clinton Louis Utterback, M.S. (Washington) ..... *Instructor in Physics*

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 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. 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 magnificent 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 illus-

trated 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 1924-1925 are: President, Gilbert M. Orr; vice-president, W. H. Price; secretary-treasurer, Gilbert M. Orr; editor, Gile H. Walker; advertising manager, Allyn Stillman.

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, situated in the heart of a great lumbering section and near extensive national forests, offers ample opportunity for summer employment. Students not only acquire valuable experience in this way, but earn a considerable portion of their university expenses.

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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 unit 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. 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-fourths 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.

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 dendrology, 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.

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 years' 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) the lumber business.

Arrangements may 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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
For. 1 (Dend.)	5	Bot. 11	5	Bot. 12	5
For. 2 (Gen. For.)	3	For. 3 (Gen. For.)	3	Math. 56	3
Math. 54 (Foresters)	3	Math. 55	3	For. 4 (Protection)	3
English 4	3	G. E. 1	3	C. E. 56	5
For. 5 (Woodcraft)	2	C. E. 55	2		
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔

SECOND YEAR

For. 53 (Construction)	3	Chem. 2 (Gen. Chem.)	5	For. 52 (Mensuration)	5
For. 57 (Sylvics)	3	For. 51 (Mensuration)	5	For. 58 (Silvicul)	5
Chem. 1 (Gen. Chem.)	5	English 5	3	Geol. 1 (General)	5
Econ. 3 (Gen.)	3	Elective	2		
Elective	2				
Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔	Phys. Ed. or Mil. Sci.	1⅔

UPPER DIVISION

Beginning with the upper division, the student should carefully consider the electives with reference to the specialty he intends to make his life work.

THIRD YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
For. 101 (Technol.)	5	For. 158 (Utili.)	5	For. 105 (Preserva.)	5
Physics 1 (Gen.)	5	Physics 2 (Gen.)	5	Physics 3 (Gen.)	5
M.E. 82 (Steam Engs.)	3	For. 104 (Tim. Tests)	5		

Suggested Electives

B.A. 62 (Accounting)	5	Chem. 101 (Qual. Anal.)	5	B.A. 56 (Bus. Law)	3
C.E. 22 (Log. R.R.)	5	B.A. 63 (Accounting)	5	Chem. 111 (Quant An.)	5
B.A. 54 (Bus. Law)	3	B.A. 55 (Bus. Law)	3		
Bot. 111 (Pathology)	5	M.E. 83	3		

FOURTH YEAR

For. 151 (Management)	5	For. 126 (Econ.)	3	All elective.	
For. 153 (Gen. Lumber)	5	For. 152 (Management)	5	Recreation	

Suggested Electives

For. 185 (Log. Eng.)	4	For. 186 (Log. Eng.)	4	For. 187 (Log. Eng.)	16
For. 183 (Milling)	5	For. 184 (Mfg. Prob.)	3	For. 188 (Adv. Prod.)	5
		For. 119 (Admin.)	3		

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 class adviser. A sufficient number will have to be taken to fulfill the requirements for the master's degree.

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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 and Marketing)	5
For. 221 (History)	3				

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

SCHOOL OF LAW

THE FACULTY, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*
John Thomas Condon, LL.M. (Northwestern) ..... *Professor of Law; Dean of the School of Law*
Harvey Lantz, A.M. (De Pauw), LL.B. (Kent) ..... *Professor of Law*
Ivan Wilbur Goodner, LL.B. (Nebraska) ..... *Professor of Law*
Clark Prescott Bissett, A.B. (Hobart) ..... *Professor of Law*
Leslie James Ayer, B.S., J.D. (Chicago) ..... *Professor of Law*
Joseph Grattan O'Bryan, A.B. (Jesuit College) ..... *Lecturer on Law*
Arthur Sydney Beardsley, LL.B., B.S. in L.S., M.A. (Washington) ..... *Law Librarian*

ORGANIZATION AND EQUIPMENT

General Statement.—The School of Law was established in 1899. The case system is generally used and is designed to give an effective knowledge of legal principles and to develop the power of independent legal reasoning. A thorough legal training is offered to students of maturity and with previous preliminary education, and the courses offered are adapted to train and fit students for practice in any state or jurisdiction. Special attention and emphasis is given to the law of the State of Washington, and in the illustration and development of legal principles. Cases and statutes are largely cited from the State of Washington and other Northwestern and Pacific states. The School of Law is a member of the Association of American Law Schools, and is ranked in class "A" by the committee of the Section of Legal Education of the American Bar Association.

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, three 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 about 37,000 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 144,065 volumes. It is especially strong in reference works

The Seattle public library, containing 350,000 volumes, is open to the free use of students and is within easy distance of the campus by street car.

GENERAL INFORMATION

The four 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. This makes possible a better sequence of courses in the first year and permits students to enter at

the opening of any quarter. However, students beginning the study of law cannot be registered for the full fifteen-hour course except when entering at the first, or autumn 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.

For information on other general University fees and expenses applicable to all students, see page 51.

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.

ADMISSION AND GRADUATION

To be admitted to regular standing in the Law School students must present acceptable credits or pass examinations entitling them to admission to this University and in addition thereto present a junior certificate from the College of Liberal Arts or the College of Science of this University, or present acceptable credits or pass examinations equivalent to the junior certificates. The entrance requirements are stated fully on pages 43-45.

Advanced Standing.—If in addition to satisfying the entrance requirements for regular standing in the Law School, the student has earned credits in another law school of satisfactory standing, 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. Candidates for a degree, with advanced standing, must spend at least one full college year in the Law School.

Special Students.—No person will be admitted as a special student in law, unless he is twenty-one 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.

Special Students Becoming Candidates for Degree.—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. If a special student intends to become a candidate for a degree by clearing up his entrance requirements during his law studies, he must notify the dean of the Law School on registration. Such a student will be permitted to carry a limited amount of work in the College of Liberal Arts or the College of Science to enable him to clear up his entrance requirements in law.

Combined Curriculum in Arts and Law.—This combined course allows the student with a good record to complete the requirements for the degrees

If a student is a grad student and has all J. C. req except some ie: lang – list them with requirements + add note that he may be exempt on under recommendation from Dean of Law School EMC 9-7 25

of bachelor of arts and bachelor of laws in six years. It is open only to students who have maintained a uniformly good record for scholarship during the first three years of Liberal Arts.

The student is enrolled in the College of Liberal Arts during the first three years. If at the end of three years he has a uniformly good record for scholarship and has earned 135 or more credits, plus the ten required credits in military science or physical education and including all the required work, together with a major, he may for the fourth year register in the Law School for the first year's work in law and must earn in the College of Liberal Arts additional credits sufficient to make his total of arts credits amount to 154, and earn in the Law School at least 36 credits in the first year law work to apply on his bachelor of arts degree, thus making his 190 credits required for the degree of bachelor of arts. The degree of bachelor of arts may be granted on the completion of the fourth year.

The last two years of this combined course are devoted to completing the rest of the work in the Law School.

Students are advised to complete their full 154 credits in Liberal Arts by the end of the third year, so they can enter the law work clear in the fourth year.

Students from other schools, entering this University with advanced standing may take advantage of this combined course, provided they are registered in the College of Liberal Arts for at least one full year's work and earn at least 45 credits in the University before entering the School of Law.

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

Law Library Study.—All students admitted to this Law School must, in addition to the courses stated hereafter, complete a course in law library study to be outlined at the beginning of the school year.

Examination.—Members of each class are examined daily throughout the year in their studies, and may be subjected to written examinations at any time in the discretion of the faculty without notice. At the end of each quarter the members of each class are subject to written examinations on the courses during the year, and their promotion is dependent on successfully passing such examination.

To receive the degree of bachelor of laws it is necessary to pass satisfactory examinations in the entire course of three years. Students who pass these examinations with distinguished excellence will receive the degree of bachelor of laws *cum laude.*

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, before the beginning of the spring vacation 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. The student will be examined by the faculty on this thesis. It must be printed or typewritten, and is to be kept permanently in the library of the Law School.

Degrees.—The degree of bachelor of laws (LL.B.) will be conferred on all students who comply with the entrance 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 all the rules and regulations of the faculty and board of regents of the University.

Students admitted to advanced standing based on credits earned at another law school may count that work toward graduation, subject to the restrictions heretofore stated.

12-11-25 - Students entering from other institutions with 90+10 hrs may enroll directly in the Law School for the LLB degree

The Jaggard Prize.—Miss Anna Wright Jaggard, daughter of the late Edwin James Jaggard, LL.D., justice of the supreme court of Minnesota, offers an annual cash prize of $50 for the best thesis submitted by members of the senior class, candidates for the degree of bachelor of laws, on a subject in the courses of history of the law or jurisprudence.

Summer Session of the Law School.—Courses are offered each summer by the Law School for both beginning and advanced students. Different courses are offered successive summers. This work counts toward a degree as a part of the regular instruction of the Law School. By increasing the number of periods per week, the equivalent of a quarter's work in the regular session may be completed in each of the offered courses.

Instruction in Other Departments.—Students in the Law School may pursue studies, for which they are prepared, in other departments of the University without charge other than the prescribed fee for excess hours, except that in laboratory courses the usual laboratory deposits will be required.

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

COLLEGE OF MINES

THE FACULTY, 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California).....*President*
John Thomas Condon, LL.M. (Northwestern).....*Dean of Faculties*
Milnor Roberts, A.B. (Stanford).....*Professor of Mining Engineering and Metallurgy; Dean of the College of Mines*
Joseph Daniels, S.B. (Massachusetts Institute of Technology), 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*
Harry M. Wilten, B.S. (Min.-Met.) (Illinois).....*Instructor in Mining 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. Schoning.....*Foreman Miner in charge of Mine Rescue Training, U. S. Bureau of Mines, Mine Safety Station*
Elmer C. Koivula.....*Assistant in Mining*
George Thomas Benjamin.....*Assistant in Metallurgy*
John R. Gednetz.....*Assistant in Ceramics*

John Thomas Condon, LL.M. (Northwestern).....*Professor of Law*
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.N.D. (Strassburg)..*Professor of Mathematics*
Carl Edward Magnusson, E.E. (Minnesota), 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*
William Franklin Allison, C.E. (Cornell).....*Professor of Municipal and Highway Engineering*
George Samuel Wilson, B.S. (Nebraska).....*Professor of Mechanical Engineering*
Charles William Harris, C.E. (Cornell).....*Professor of Civil Engineering*
Edgar Allen Loew, B.S., E.E. (Wisconsin).....*Professor of Electrical Engineering*
Loren Douglas Milliman, A.B.(Michigan).....*Professor of English*
Henry Louis Brakel, Ph.D. (Cornell).....*Associate Professor of Engineering Physics*
Allen Fuller Carpenter, Ph.D. (Chicago).....*Associate Professor of Mathematics*
Herman Vance Tartar, Ph.D. (Chicago).....*Associate Professor of Chemistry*
George Irving Gavett, B.S., C.E. (Michigan).....*Assistant 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

Roy H. Clarke.....*Mining Engineer*
Peyton Building, Spokane.
John Erikson.....*Mine Operator*
Erikson Building, Seattle.
J. T. Hefferman.....*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.
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 THE INTERIOR

Clyde E. Williams, B.S. (Utah).....*Superintendent*
Edward P. Barrett, B.S. (Missouri).....*Assistant Metallurgist*
Clarence E. Sims, B.S. (Illinois).....*Electrometallurgist*
Byron M. Bird, B.S. (Washington).....*Assistant Mining Engineer*
Bernard M. Larsen, B.S. (Wisconsin), M.S. (Washington).....*Junior Metallurgist*
Carl Edwin Wood, B.S. (Ch.E.).....*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 the 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.

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 grantd 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.—Four research fellowships of $720 net annual value to the holder have been established. They are open to qualified graduates of scientific or technical courses in institutions of recognized standing. Each applicant should send a copy of his record from the registrar's office of the college where he has been, or will be, graduated, and the names and addresses of at least three references who know his character, training and ability. Applications for these fellowships are due not later than May 1, and should be addressed to the Dean, College of Mines, Seattle, Washington.

Appointees to the fellowships 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.

Fellowship holders are required to register as graduate students in the University of Washington and to become candidates for the degree of master of science in mining engineering, metallurgical engineering, or ceramic engineering, unless an equivalent degree has previously been earned.

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 and metallurgical 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 Bureau'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 and metallurgical industry.

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.

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 may 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.

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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	½ unit
Solid geometry	½ unit
Physics	1 unit
Manual Training, shopwork	½ 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

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15+1⅔		15+1⅔		15+1⅔

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	English 4	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 1	5	Geology 21	5	Geology 120	3
Mining 51	3	Civil Engineering 27	3	Chemistry 111	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16+1⅔		16+1⅔		16+1⅔

‡Mining Practice in Summer Vacation.

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	3	Geology 122	2
Geology 123	3	Electrical Eng. 101-102	6	Electrical Eng. 121-122	6
Mining 101	3	Geology 124	4	Metallurgy 102	5
Metallurgy 101	5	Metallurgy 153	3	Mining 106	1
Mechanical Eng. 54	1			Elective	2
	15		16		16

FOURTH YEAR

Mining 151	3	Mining 192	2	Mining 107	1
Mining 191	2	Mining 162	3	Mining 152	5
Metallurgy 155	3	Geology 127	5	Mining 193	1
Metallurgy 162	2	Mining 103	1	Mining 182	3
Electives	5	Electives	4	Electives	4
	15		15		14

GEOLOGY AND MINING (OPTION II)

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15+1⅔		15+1⅔		15+1⅔

‡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.

SECOND YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
Mathematics 61	3	Mathematics 62	3	Geology 4	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 1	5	Geology 21	5	Geology 120	3
Mining 51	3	Civil Engineering 27	3	Chemistry 111	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16+1⅔		16+1⅔		16+1⅔

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	3	Geology 122	2
Geology 123	3	Geology 124	3	Geology 125	2
Mining 101	3	Metallurgy 103	4	Metallurgy 102	5
Metallurgy 101	5	Metallurgy 153	3	Mining 106	1
Mechanical Eng. 54	1	Electives	2	English 4	3
				Elective	2
	15		15		15

‡Mining Practice in Summer Vacation.

FOURTH YEAR

Mining 151	3	Mining 192	2	Mining 107	1
Mining 191	2	Mining 162	3	Mining 152	5
Metallurgy 162	2	Geology 127	5	Mining 193	1
Geology 126	3	Mining 103	1	Electives	7
Geology 140	3	Electives	4		
Electives	2				
	15		15		14

METALLURGICAL ENGINEERING (OPTION III)

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15+1⅔		15+1⅔		15+1⅔

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	English 4	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 1	5	Geology 21	5	Geology 120	3
Mining 51	3	Civil Engineering 27	3	Chemistry 111	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16+1⅔		16+1⅔		16+1⅔

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	3	Electrical Eng. 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	2
Electives	2				
	14		16		14

‡Mining Practice in Summer Vacation.

FOURTH YEAR

Autumn Quarter	*Credits*	*Winter Quater*	*Credits*	*Spring Quarter*	*Credits*
Mining 151	3	Mining 102	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	4
		Electives	3		
	15		17		14

‡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.

COAL MINING ENGINEERING (OPTION IV)

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15+1⅔		15+1⅔		15+1⅔

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	Geology 4	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 1	5	Geology 21	5	Geology 120	3
Mining 51	3	Civil Engineering 27	3	Chemistry 111	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16+1⅔		16+1⅔		16+1⅔

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	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 4	3
Mechanical Eng. 82	3	Metallurgy 103	4	Mining 106	1
Mechanical Eng. 83	3				
	15		16		15

‡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	3				
	15		15		14

CERAMICS ENGINEERING (OPTION V)

FIRST YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	15+1⅔		15+1⅔		15+1⅔

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	Ceramics 90	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 1	5	Geology 21	5	Geology 120	3
Mining 51	3	Civil Engineering 27	3	Chemistry 111	5
Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Mil. Sci. or Phys. Ed.	1⅔
	16+1⅔		16+1⅔		16+1⅔

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	3	English 4	3
Mining 101	3	Metallurgy 153	3	Metallurgy 102	5
Chemistry 181	5	Chemistry 182	5	Ceramics 102	3
Ceramics 100	3	Ceramics 101	3	Ceramics 110	2
Ceramics 104	3	Ceramics 105	3	Mining 106	1
	17		17		14

FOURTH YEAR

Ceramics 121	5	Ceramics 122	5	Mining 107	1
Mining 191	3	Mining 192	3	Ceramics 123	5
Electives	7	Mining 103	4	Mining 193	2
		Mining 103	1	Electives	7
		Electives	2		
	15		15		15

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

‡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.

COLLEGE OF PHARMACY

THE FACULTY, 1925-26

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*

John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*

Charles Willis Johnson, Ph.C., Ph.D. (Michigan) ..... *Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy and State Chemist*

Eldin Verne Lynn, A.B. (Washington), Ph.D. (Wisconsin) ..... *Associate Professor of Pharmacology and Chemistry*

Henry August Langenhan, Ph.G. (Illinois), Ph.D. (Wisconsin) ..... *Associate Professor of Pharmacy*

Forest Jackson Goodrich, Ph.C., M.S. (Washington) ..... *Instructor in Pharmacy and Materia Medica*

Henry M. Burlage, A.B. (Indiana), Ph.G., B.S. (Purdue), A.M. (Harvard) ..... *Instructor in Pharmacy*

Cornelius Osseward, Ph.G. (New York College of Pharmacy, Dept. of Columbia University), Ph.C. (Northwestern University) ..... *Lecturer on Pharmacy*

Mary Lucille Turnacliff, Ph.C., B.S. (Washington) ..... *Assistant State Chemist*

Robin Wilkes Goodrich, Ph.G., B.S., M.S. (Washington) ..... *Assistant State Chemist*

Frederick V. Lofgren, Ph.C., M.S. (Washington) ..... *Arthur A. Denny Fellowship* 1924-25

Ludwig Metzer ..... *In Charge of Garden of Medical Plants*

Frederick Morgan Padelford, Ph.D. (Yale) ..... *Professor of English and Dean of the Graduate School*

Frederick Arthur Osborn, Ph.D. (Michigan) ..... *Professor of Physics*

Pierre Joseph Frein, Ph.D. (Johns Hopkins) ..... *Professor of Romanic Languages*

John Wenzirl, Dr.P.H. (Harvard) ..... *Professor of Bacteriology*

Leslie J. Ayer, J.D. (Chicago) ..... *Professor of Law*

Howard Thompson Lewis, A.M. (Wisconsin) ..... *Professor of Economics and Dean of the College of Business Administration*

George Burton Rigg, Ph.D. (Chicago) ..... *Associate Professor of Botany*

Ernest Otto Eckelman, Ph.D. (Heidelberg) ..... *Assistant Professor of German*

Eli Victor Smith, Ph.D. (Northwestern) ..... *Assistant Professor of Zoology*

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 75%.

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 Conference of Pharmaceutical Faculties and such foreign colleges of pharmacy as meet the standards and requirements of the American Conference of Pharmaceutical Faculties.

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 165. 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.

The American Conference of Pharmaceutical Faculties.—The College of Pharmacy is a member of the American Conference of Pharmaceutical Faculties. The objects of the conference are: to promote closer relations between the several colleges of pharmacy of the United States, to standardize pharmaceutical 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 students 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.

Library Facilities.—A branch of the University library containing books and current publications on pharmacy and chemistry is maintained in the pharmacy building. Practically all the domestic and some foreign journals on pharmacy are received by the college. The student is required to make use of the library and to report from time to time on current topics of interest. (See Phar. 125, 126, 127.)

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 1924-1925 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.

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. Full information concerning admismission, registration and expenses may be found on pages 43, 50, 51.

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 42.

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.

1. ADMISSION TO THE THREE-YEAR COURSE LEADING TO THE DEGREE OF PHARMACEUTICAL CHEMIST.

For admission to the three-year course, no subjects are prescribed beyond the general requirements for freshmen standing in the University.

2. ADMISSION TO THE FOUR-YEAR COURSE, LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY.

For admission to this course a candidate must present the following credits, in the fifteen units required for freshmen standing in the University:

*2 units in one foreign language.
1 unit in one of the following sciences: physics, chemistry, botany, zoology, physiology, general biology.

3. 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.

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 elect 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.

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.

*A student who has not taken the required foreign language in high school must complete in the University, without credit, 20 hours (four quarters) in one foreign language.

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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Pharmacy 4	2
				Mil. Sci. or Phys. Ed.	1⅔

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	English 4	3
				Mil. Sci. or Phys. Ed.	1⅔

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	11
Approved Elective	6				

Total scholastic hours for graduation—135 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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Pharmacy 4	2
				Mil. Sci. or Phys. Ed.	1⅔

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	English 4	3
				Mil. Sci. or Phys. Ed.	1⅔

THIRD YEAR

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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	Approved Elective	5
Pharmacy 195	5	Pharmacy 196	5	Pharmacy 197	5
Approved Elective	5	Approved Elective	5	Approved Elective	5

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

Autumn Quarter	*Credits*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Pharmacy 4	2
				Mil. Sci. or Phys. Ed.	1⅔

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	English 4	3
				Mil. Sci. or Phys. Ed.	1⅔

THIRD YEAR

Bus. Admin. 54 (Law)	3	Bus. Admin. 55 (Law)	3	Bus. Admin. 56 (Law)	3
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	Psychology 1	5	Pharmacy 112	3

FOURTH YEAR

Bus. Adm. 62 (Acc'tg.)	5	Bus. Adm. 63 (Acc'tg.)	5	Bus. Adm. 3 (Econom.)	3
Bus. Admin. 146	5	Bus. Admin. 147	5	Approved Elective	7
Pharmacy 195	5	Pharmacy 196	5	Pharmacy 197	5

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

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Pharmacy 4	2
				Mil. Sci. or Phys. Ed.	1⅔

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.	1⅔	Mil. Sci. or Phys. Ed.	1⅔	Elective	3
				Mil. Sci. or Phy. Ed.	1⅔

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

Autumn Quarter	*Credit*	*Winter Quarter*	*Credits*	*Spring Quarter*	*Credits*
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	Physiology 115	5
Approved Elective	5	Approved Elective	5	Approved Elective	5

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. Election may be made in one or more of the following studies: Bacteriology, 8 to 22 credits; botany, 4 to 22 credits; physics, 10 to 22 credits; chemistry, 5 to 22 credits; zoology, 4 to 12 credits.

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

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

GRADUATE SCHOOL

THE FACULTY, 1925-1926

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California) ..... *President*

John Thomas Condon, LL.M. (Northwestern) ..... *Dean of Faculties*

Frederick Morgan Padelford, Ph.D. (Yale) ..... *Professor of English; Dean of the Graduate School.*

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*

Caroline Haven Ober ..... *Professor of Spanish*

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 Physics Laboratories*

William Savery, Ph.D. (Harvard) ..... *Professor of Philosophy*

David Thomson, B.A. (Toronto) ... *Professor of Latin; Dean of the College of Liberal Arts*

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 Romanic 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*

William Elmer Henry, A.M. (Indiana) ..... *Librarian and Director of the Library School*

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 Kreitzer 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 Parrington, 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 Rodgers Benham, Ph.D. (Yale) ..... *Professor of English*

Fred Carlton Ayer, Ph.D. (Chicago) ..... *Professor of Education*

John Nathan Cobb, ... *Professor of Fisheries and Director of the College of Fisheries*

William Maurice Dehn, Ph.D. (Illinois) ..... *Professor of Chemistry*

Howard Woolston, Ph.D. (Columbia) ..... *Professor of Sociology*

Matthew Lyle Spencer, Ph.D. (Chicago) ..... *Professor of Journalism; Director of the School of Journalism*

George McPhail Smith, Ph.D. (Freiburg) ..... *Professor of Inorganic Chemistry*

Howard Thompson Lewis, A.M. (Wisconsin) ..... *Professor of Economics; Dean of the College of Business Administration*

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*

George Wallace Umphrey, Ph.D. (Harvard) ..... *Professor of Romanic Languages*

Eric Temple Bell, Ph.D. (Columbia) ..... *Professor of Mathematics*

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*

George Samuel Wilson, B.S. (Nebraska) ..... *Professor of Mechanical Engineering*

Alexander C. Roberts, Ph.D. (Washington) ..... *Professor of Education; Director of Extension Service*

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*
Thomas Kay Sidey, Ph.D. (Chicago).....*Associate Professor of Latin and Greek*
Edward McMahon, A.M. (Wisconsin).....*Associate Professor of American History*
Henry Louis Brakel, Ph.D. (Cornell).....*Associate Professor of Engineering Physics*
George Burton Rigg, Ph.D. (Chicago).....*Associate Professor of Botany*
Arthur Melvin Winslow, Ph.B. (Brown), B.S. (Massachusetts Institute of Technology), *Associate Professor of Mechanical Engineering*
Charles Goggio, Ph.D. (Wisconsin).....*Associate Professor of Romanic Languages*
Roderick Duncan McKenzie, Ph.D. (Chicago).....*Associate Professor of Sociology*
Elias Treat Clark, M.F. (Yale).....*Associate Professor of Forestry*
Herman Vance Tartar, Ph.D. (Chicago).....*Associate Professor of Chemistry*
Eldin Verne Lynn, Ph.D. (Wisconsin)....*Associate Professor of Pharmacology and Chemistry*
Henry A. Langenhan, Ph.D. (Wisconsin).....*Associate Professor of Pharmacy*
Grace Goldena Denny, A.M. (Columbia).....*Associate Professor of Home Economics*
Curt John Ducasse, Ph.D. (Harvard).....*Associate Professor of Philosophy*
Walter Isaacs, B.S. (James Milliken).....*Associate Professor of Fine Arts*
Carl Raymond Fellers, Ph.D. (New Jersey State College).....*Associate Professor of Food Preservation*
William Henry George, Ph.D. (Harvard).....*Associate Professor of Political Science*
Dudley David Griffith, Ph.D. (Chicago).....*Associate Professor of English*
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*
Edwin James Saunders, A.M. (Harvard)..... *Assistant Professor of Geology*
Eli 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.*
Ernest Otto Eckelman, Ph.D. (Heidelberg).....*Assistant Professor of German*
Lewis Irving Neikirk, Ph.D. (Pennsylvania).....*Assistant Professor of Mathematics*
Curtis Talmadge Williams, Ph.D. (Clark).....*Assistant Professor of Education*
Martha Koehne, A.M. (Ohio).....*Assistant Professor of Home Economics*
Leslie Spier, Ph.D. (Columbia).....*Assistant Professor of Anthropology*
Henry L. Lucas, Ph.D. (Michigan).....*Assistant Professor of History*
Jakob A. O. Larsen, A.M. (Oxford).....*Assistant Professor of History*
Theresa Schmid McMahon, Ph.D. (Wisconsin).....*Assistant Professor of Economics*
Louis Peter DeVries, Ph.D. (Wisconsin).....*Assistant Professor of Romanic Languages*
August Dvorak, Ph.D. (Minnesota).....*Assistant Professor of Education*
Rachel Emilie Hoffstadt, Ph.D. (Chicago), Dr.S. (Johns Hopkins).....*Assistant Professor of Bacteriology*
Ralph Mason Blake, Ph.D. (Harvard).....*Instructor in Philosophy*
Graduate Council: Dean Padelford, *Chairman;* Deans Condon, Thomson, Roberts, Magnusson, and Lewis; Professors Meany, Osborn, Frye, Moritz, Dehn, Woolston, Williams, and Guthrie.

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*Absent on Leave.

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 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; $17, 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 foi each credit hour on the election blank.

Incidental fees, such as library and laboratory fees, are required from all who receive graduate instruction.

LABORATORIES

The University has well-equipped laboratories for advanced work in anatomy, astronomy, botany, ceramics, chemistry, civil, chemical, electrical, mechanical and mining engineering, fisheries, forestry, geology, metallurgy, pharmacy, physics, psychology and zoology. For description of laboratories see pages 31-36.

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 four 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 candidates 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 May 15, 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 his 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.

Rosenberg Scholarship.—A scholarship of $200, known as the "Samuel Rosenberg Scholarship, endowed in loving memory by Ella S. Rosenberg, his wife, is open to graduate students in French.

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 equal rank, will be given full graduate standing. 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 five hours of graduate work if full-time employees, and ten to twelve hours if half-time employees. Permission to exceed these hours must be secured from the dean of the Graduate School and the dean of Faculties.

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.

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 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.

2. Completion of courses of study in a major and two minor subjects, the work in the minors to constitute approximately one-third of this work. 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. Before being recognized as a candidate for the degree, a student must be approved by a committee as provided above.

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. This 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 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, covering the work of the candidate, especially that part of it in which the thesis falls. The examination shall be given by a committee appointed by the dean including, so far as feasible, all of the instructors with whom the student has worked and a representative of the graduate council. 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 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 four 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 150 copies and the candidate with 50 copies.

7. A card 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 card 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 contribuition 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 degrees 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 hear 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.

3. 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 card 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 card 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 Science in Technical Subjects.—The degree of 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

Msater of Science in Food Preservation

Master of Science in Pharmacy

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' 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.

PROFESSIONAL DEGREES

Professional Degrees.—The professional degrees of chemical engineer, civil engineer, electrical engineer, mechanical engineer, metallurgical engineer and engineer of mines may be conferred in three years on those who hold the bachelor of science degree in their respective lines from the University of Washington, who give evidence of having engaged continuously in acceptable engineering work and who present satisfactory theses.

COURSES

For description of courses, see Departments of Instruction, printed elsewhere in this catalogue. (See Index.)

DEPARTMENTS OF INSTRUCTION

EXPLANATIONS

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 1 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 quarters' work.

The credit indicated in connection with each course is the "quarter credit," being 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 1925-1926.

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. 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; winter, 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

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, $7.50. Three or six credits a quarter; autumn, winter, spring. Worcester.

104. Topographic Anatomy.—Cross and sagital sections for correlation. Prerequisites, Anat. 101, 102, and 103. Lab. fee, $5. 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, $5. Hours and credits to be arranged; autumn, winter, spring. Worcester.

MICROSCOPIC ANATOMY

105, 106. Histology and Embryology.—Micriscopic 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.

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 fiber tracts. Prerequisites, Anat. 105 and 106 or their equivalents. Especially for pre-medic 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.

**Will be offered if a sufficient number of students elect the course.

ANTHROPOLOGY

Philosophy Hall

Assistant Professor Spier

51. Growth of Culture.—Origin and development of social institutions, industrial activities and arts, with special reference to race questions. Five credits; autumn, winter. Spier.

‡‡*52. Primitive Social Life.*

101. Basis of Civilization.—Factors that determine the growth of civilizations, as illustrated by the North American Indians. Five credits; winter. Spier.

**110. Peoples of Europe.*

141. Folk-Tales.—Historical and psychological analyses. Research problems. Three credits; winter. Spier.

**143. Origins of Art.*

163. Anthropometry.—Growth of children; racial and social influences. Methods and interpretation of measurements. Race classifications. Three credits; autumn. Spier.

185. Primitive Social and Political Institutions.—Theories of development. Five credits; autumn. Spier.

190, 191, 192. Research.—Instructor's permission necessary. Credits and hours to be arranged. Spier.

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; autumn, winter. Spier.

ARCHITECTURE

Education Hall

Professor Gould; Associate Professor May; Assistant Professors Herrman, Gowen

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. Gould.

3. Architectural Appreciation.—General survey of important periods of architectural history studied, wherever possible, in terms of present day conditions. Two credits; spring. Gould.

‡‡Offered in extension as a correspondence course.

*Not offered in 1925-1926.

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. Herrman.

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. Gould.

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, $4. Prerequisite, Arch. 6. Three credits any quarter; autumn, winter, spring. Gould, 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. Herrman.

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 Projets). Lab. fee, $4. Prerequisite, Arch. Design Grade I. Five credits a quarter; autumn, winter, spring. Herrman, Gould.

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. Isaacs

114. Freehand Drawing, Water Color.—Still life studies, and outdoor sketching in water color; lab. fee, $1. Prerequisite, 113. Two credits; spring. Isaacs.

116. Specifications and Office Practice.—Specifications and all contract forms used by the architect; modern business methods, ethics and office organization. Two credits; spring. Gould.

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 Projets). Lab. fee, $4. Prerequisite, Arch. Design, Grade II. Seven credits a quarter; autumn, 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, $4. Prerequisite, Arch. Design Grade III. Eight credits; spring. 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, winter. Gowen.

162-163. Modelling.—Modelling of architectural subject 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. Gowen.

157-158-159 – 3-7 cr – 7-W. S

ASTRONOMY

The Observatory

Instructor Farwell

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. Farwell.

53. Practical Observing.—Prerequisite, B.A. 52. Actual practice in finding latitude, longitude, and azimuth with the sextant. Lab. fee, $1. One credit; spring. Farwell.

BACTERIOLOGY AND PATHOLOGY

Science Hall

Professor Weinzirl, Assistant Professor Hoffstadt, Lecturer G. A. Magnusson, Graduate Assistants Johnson and Rafn.

COOPERATING LABORATORIES:

A. W. Simpson, M.D., Director State Board of Health.
P. C. West, M.D., Director Seattle Department of Health.
E. D. Clark, Ph.D., Director National Canners' 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.

4. Food Bacteriology.—A brief study of the technique of handling bacteria. Most of the time is given to the bacteriology of fermentation, putrefaction, sterilization, sanitation, and canning. Especially for short course students in fisheries, but open to others. Lab. fee, $4. Four credits; winter. Weinzirl.

100. Public Hygiene.—For non-science students only. Two credits; autumn. Weinzirl.

101. General Bacteriology.—Technique in growing and examining bacteria, indentification of species, common disease bacteria. Prerequisite, junior standing except for bacteriology majors. Knowledge of biology and general chemistry is desirable. 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. Prerequisite, junior standing except for bacteriology majors. Five credits; lectures only; spring. Lab. fee, $1. Weinzirl.

104. Serology.—Types of immunity; immunization in animals and man; study of immune products. Prerequisite, Bact. 101. Lab fee, $5. Four 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. Four credits; winter. Hoffstadt.

106. Clinical Diagnosis.—Examination of blood, urine, gastric and intestinal contents, parasites, etc. Prerequisite, Bact. 101. Lab. fee, $5. Four credits; spring. Magnusson and Hoffstadt.

111. Pathology.—Gross and microscopic study of inflamation and degeneration. Prerequisite, Anat. 105. Lab. fee, $5. Five credits; winter. Hoffstadt.

112. Pathology.—Gross and microscopic study of tumors. Prerequisite, Bact. 111. Lab. fee, $5. Five credits; spring. Hoffstadt.

120, 121, 122. Applied Bacteriology.—By special arrangement the student may spend not less than 15 hours per week in state or city laboratories. Credit will depend upon a satisfactory statement from the director in charge of the laboratories. Five credits; autumn, winter, spring, summer. Weinzirl.

126, 127, 128. Journal Club.—No credit; autumn, winter, spring. Weinzirl.

190, 191, 192. Research.—Investigation of assigned problems. Open to qualified students after consultation. Credits to be arranged; autumn, winter, spring, summer. Weinzirl

195, 196, 197. Seminar.—Topics not included in the regular courses; reports on research work done by the members. Prerequisite, Bact. 106. Credits to be arranged; autumn, winter, spring. Weinzirl.

COURSES FOR GRADUATES ONLY

204, 205, 206. Advanced Bacteriology.—Advanced work in definite fields on consultation. For 1925-6, and alternate years thereafter, the following topics will be handled in the conference: autumn, bacterial enzymes, Weinzirl; winter, bacterial plant diseases, Hotson; spring, industrial bacteriology, Weinzirl.

For 1926-7, and alternate years thereafter: autumn, compliment fixation, Hoffstadt; winter, ultraviruses and bacteriophage, Hoffstadt; spring, chemical pathology of the blood, Hoffstadt. Five credits; autumn, winter, spring, summer. Weinzirl.

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, 105, 106, 107 will be accepted.

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, 140, 141, 142, 143, 144, 145.

For pharmacy students: 13, 14.

For forestry students: 11, 12, 111, 140, 141, 142.

For fisheries students: 53, 70.

1. Elementary Botany.—Structure and functions of roots, stems, leaves and seeds. For those who have had no botany in high school. Lab. fee, $2. Five credits; autumn. Rigg and assistants.

2. Elementary Botany.—Types of the great groups of plants from the highest to the lowest. Open to students entering the second quarter without any previous botany. 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. Frye and assistants.

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. 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.

S.C. 20. Canners' Botany.—Two lectures a week. Winter quarter. Rigg.

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. Rigg.

70. Fruits and Vegetables.—Varieties of fruits and vegetables grown in the Northwest, their recognition and properties. Fruit and the vegetable areas with the reasons for their geographical distribution. A course for canners and business students. Lab. fee, $2. Five credits; autumn. Rigg.

101. Landscape Gardening.—The plants used in beautifying lawns and houseyards, their propagation and use. Lab. fee, $2. Three credits; spring. 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 assistant.

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; any quarter. 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. 21, 22. 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.

190, 191, 192. Rusts.—Morphology and classification of the Urediniales. Prerequisite, Bot. 142. Lab. fee, $2. Five credits a quarter; autumn, winter, spring. Hotson.

Teachers' Course in Botany.—See Educ. 160A.

COURSES FOR GRADUATES ONLY

200. 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.

233. Research.—Lab. fee, $2. Two to five credits; any quarter. Frye.

247. Diatoms.—Prerequisite, Bot. 53 or 105. Lab. fee, $2. Three credits; autumn quarter. Frye.

250. Algae.—Prerequisite, Bot. 105. Lab. fee, $2. Credits to be arranged; any quarter. 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. Lab. fee, $3. Five credits; any quarter. Rigg.

280. Micrometabolism.—Prerequisites, Bot. 12 or 107, 148. Lab. fee, $3. Five credits; any quarter. Rigg.

CERAMICS

Mines Laboratory

Associate Professor Wilson

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.

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 operation 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 clays. 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, $10 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, $12 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. One recitation and two laboratory periods. Lab. fee, $10. Three credits; autumn, winter and spring.

*Not offered in 1925-1926.
**Will be offered if a sufficient number of students elect the course.

****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. 3. 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 fireclays and other refractory materials. The manufacturing problems of fireclay, silica, magnesia, chromite brick, electric furnace products and special refractories. Prerequisite, junior standing. Two recitations and one laboratory period. Lab. fee, $5. Three credits; winter.

221, 222, 223. Graduate Ceramics.—Studies of the ceramic resources of the Pacific Nortwest, or in the manufacture of clay products. Prerequisite, graduate standing. Hours and credits to be arranged. Wilson.

CHEMISTRY AND CHEMICAL ENGINEERING

Bagley Hall

Professors Benson, Johnson, Dehn, Smith; Associate Professors Tartar, Thompson, Lynn; Assistant Professors Boynton, Beuschlein; Instructors Powell, Semon; Associates Radford, Peterson.

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 enginering 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 ticket is $5. Any unused portion will be refunded.

**Will be offered if a sufficient number of students elect the course.

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, Semon.

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, Boynton.

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 had accredited high school chemistry. Three lectures and two laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Semon.

23. Elementary Qualitative Analysis.—Prerequisite, Chem. 2 or 22, or equivalent. Three lectures and two laboratory periods a week. Five credits; any quarter. Smith, Tartar, Semon.

37-38-39. Organic Pharmaceutical Chemistry.—Organic chemicals of the United States Pharmacoepia. 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, winter. 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; winter, spring. Thompson.

110. Quantitative Analysis.—Volumetric analysis. Two lectures and three laboratory periods a week. Prerequisite, Chem 109. Five credits; autumn, 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—fuels, 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. May be taken independently or as the laboratory equivalent of Chem. 129 or 133. Two laboratory periods a week. Two credits; spring. Powell.

135-136. Organic Chemistry.—For home economic 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. Semon.

144. Physiological Chemistry.—For fisheries and home economic students. Prerequisite, Chem. 129 or equivalent. Three lectures and two laboratory periods. Five credits; spring. Boynton.

ADVANCED UNDERGRADUATES AND GRADUATES

**150. Industrial Seminar.*

153. Organic Analysis.—Special methods used in the analysis of organic substances. Prerequisite, Chem. 133 and 110. Credits and laboratory period to be arranged. Autumn. Dehn.

154, 155. 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.

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, 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.

*Not offered in 1925-1926.

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 172. Three drawing 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. Two to five credits a quarter; autumn, winter, spring. Benson, Beuschlein.

181-182. Physical and Theoretical Chemistry.—Fundamental theories of chemistry based on physical and chemical measurements. Three lectures and two laboratory periods a week. Prerequisite, Phys. 2 and Chem. 110. Five credits a quarter; autumn, winter. Tartar.

183. Electro Chemistry.—Theories and laws of voltaic currents and laboratory work with electro-chemical processes and measurements. Three lectures and two laboratory periods a week. Prerequisite, Chem. 182. Five credits; spring. Tartar.

190, 191. History of Chemistry.—Lectures and assigned readings. No fee. Prerequisite, Chem. 129, 182. Two credits; autumn, winter. Smith.

199. Journal Seminar.—Advanced students may register for assigned readings and reports on the chemical literature. Different members of the staff will have charge of the course during the various quarters. No fee. One credit; autumn, winter, spring. Powell.

Teachers' Course in Chemistry.—See Educ. 160B.

COURSES FOR GRADUATES ONLY

**203. Advanced Physical Chemistry.*

204. Chemistry of Colloids.—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.*

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. Autumn, winter, spring. Dehn.

**219. Advanced Chemical Engineering.*

221, 222, 223. Advanced Inorganic Chemistry.—The periodic system of the elements. Two quarters devoted to the elements and their ordinary

*Not offered in 1925-1926.

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.

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.

250. Research.—The work in research is of three types: (1- Special investigations by advanced students under the 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. Staff.

CIVIL ENGINEERING

Education Hall

Professors More, Allison, Harris; Associate Professors May; Assistant Professors Collier, Wilcox; Instructors Hamilton, Amalleff, Miller, Chittenden, Dodd, Hawthorne.

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 a quarter; spring. Hamilton.

22. Railroad Surveying.—Plane curves, grades and earthwork. Elementary railroad engineering. Prerequisite, G.E. 21. Lab. fee, $2. Four credits; autumn. Hamilton.

27. Mine Surveying.—Surface and underground practice; observation for meridian, topography; mining claim survey; tunnels, and vertical shaft work and connections; mapping. Prerequisite. G.E. 21. Sophomore mining engineers. Lab fee, $2. Three credits; winter. Hamilton.

55. Forest Surveying.—For students in forestry. Lab fee, $2. Two credits; winter. Hamilton.

56. Forest Surveying.—Chain, compass, transit and level surveying, with reference to work in forestry. Lab fee, $2. Five credits; spring. Hamilton.

71. Quantity Surveys.—Taking off quantities from plans preliminary to cost estimates. Prerequisites, G.E. 12, 13. One credit; winter. More.

75. Civil Engineering Drawing.—Finished drawings for contract and report exhibits, etc. 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. Three credits a quarter; autumn, winter, spring. More.

106. Sanitation and Plumbing.—For architects. Two credits; winter. Allison.

113. Higher Surveying.—Meridian observations; triangulation and base line measurements; computations and adjustment of measurements; plane table surveying. Prerequisite, G.E. 21. Lab. fee, $2. Three credits; autumn.

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. ———.

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. Allison.

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. Allison.

130. Theory of Building Construction.—For architects. Three credits; autumn. May.

131. Mechanics.—Algebraic and graphic application of elementary principles of statics. Prerequisites, Physics 97 and Math. 62. Three credits; autumn, winter, or spring. Miller.

132. Mechanics.—Applications of elementary principles of dynamics. Prerequisite, C.E. 131. Three credits; autumn, winter, or spring. Miller.

133. Mechanics.—Continuation of C.E. 131 and C.E. 132; and mechanics of materials. Prerequisite, C.E. 132. Three credits; autumn, winter, spring. Wilcox.

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 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. Prerequisite, C.E. 131 or C.E. 93. Lab. fee, $2. Five credits; autumn, winter, spring. Harris.

143. Hydraulic Engineering.—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; penstock and turbines; types of installations. Prerequisite, C.E. 142. Senior and graduate engineers. Five credits; autumn. Harris.

153. Water Supply.—Principal engineering operations necessary to secure suitable water supplies for cities, towns and industrial plants. Senior and graduate C.E. Prerequisite, C.E. 142. Three credits; spring. Allison.

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. Allison.

155. Water Supply Problems.—Methods used in obtaining a suitable supply; purification of water. Senior and graduate C.E. and Ch.E. Prerequisite, C.E. 142. Three credits; winter. Allison.

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. Allison.

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. Allison.

160. Building Construction.—Building design and construction problems. Prerequisite, C.E. 134. Three credits; spring. More.

161. Structural Design.—Relation of theory of structure 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. Five credits; spring. More.

167. Materials of Construction.—Properties of materials used in engineering construction, timber, concrete, steel, etc. Recitations and laboratory. Prerequisite, C.E. 93. Lab. fee, $2. Five credits; autumn. Collier.

169. Engineering Relations.—Construction and operation of projects, and of the involved business relations. Prerequisite, senior standing. Five credits; spring.

192, 194, 196. Research.—Time to be arranged. Two to five credits. autumn, winter, spring. Harris.

198. Thesis.—Three to six credits; autumn, winter, or spring. Harris.

210, 212, 214. Research.—For graduates. Time to be arranged. Two to five credits; autumn, winter, spring. Harris.

CLASSICAL LANGUAGES AND LITERATURE

Denny Hall

Professor Thomson; Associate Professor Sidey; Assistant Professors Densmore, Clark

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. 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.

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. Supervised study one afternoon period each week. A maximum of five credits a quarter, beginning any quarter. Densmore.

4-5. The World of Homer.—Readings from the story of Achilles and the wanderings of Odysseus on a background of a general study of the history of the period down to Hesiod. Prerequisite, Greek 3. Three credits; autumn, winter. Densmore.

6. The Persian War Period.—Wide readings in Herodotus. Prerequisite, Greek 4. Three credits; spring. Densmore.

8-9-10. Greek Art.—Autumn, architecture; winter, sculpture; spring, painting, numismatics and the minor arts. Alternates with *Roman Art.* Principally for Fine Arts students, but open to all. 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. 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. Clark.

15-16. Greek Civilization and Literature.—Duplication of Greek 11, but including the literature in translation as a fundamental expression of the Greek genius. 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 4-5 or equivalent. Three credits a quarter; autumn, winter, spring. Densmore.

**104, 105, 106. Greek Poetry.*

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.—For graduates and advanced undergraduates. Three to five credits; autumn, winter, spring. Densmore.

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. Sidey.

4, 5, 6. Third Year Latin.—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, Vergil. Five credits a quarter; autumn, winter, spring. Thomson, Clark.

11. Roman Civilization.—The part played in history by the Romans; their contributions to modern civilizations. Lectures, illustrated, when possible; collateral reading and reports. Five credits; autumn (open to entering freshmen only); winter (open to all); spring (open to all). Clark.

13. Roman Literature.—The masterpieces in English translations. Knowledge of Latin not required. Five credits; autumn, winter, spring. Sidey.

**14-15-16. Roman Art.*

21. Cicero: De Senectute; Latin Literature (Mackail). Comparison of Cicero's work with similar essays. Exercises in grammar and composition.

*Not offered in 19

Prerequisite, three and one-half years of high school Latin. Five credits; autumn. Sidey.

22. Catullus. Latin Literature (Mackail).—The Latin lyric. Emphasis on finished translation and comparison of the best English versions; grammar and composition. Prerequisite, three and one-half years of high school Latin. Three or five credits; winter. Sidey.

23. Vergil: Georgics and Bucolics: Latin Literature (Mackail).—Prerequisite, three and one-half years of high school Latin. Three or five credits; spring. Sidey.

50. Livy.—One book and selections from the other books. Prerequisite, Latin 21, 22, 23, or special permission. Five credits; autumn. Thomson.

60. Horace.—Selections from The Complete Works. Prerequisite, Latin 21, 22, 23, or special permission. Five credits; winter. Thomson.

70. Tacitus; Agricola; Martial; Select Epigrams.—Prerequisite, Latin 21, 22, 23, or special permission. Five credits; spring. Thomson.

106. Syntax and Prose Composition.—Prerequisite, Latin 50 or 60 or 70. Three credits; autumn. Clark.

**107. The Age of Cicero.*

108. Vergil's Aeneid.—Books VII-XII. Prerequisite, Latin 50 or 60 or 70. Three credits; winter. Clark.

109. Pliny's Letters and Tacitus, Germania.—A reading course. Prerequisite, Latin 50 or 60 or 70. Three credits; spring. Clark.

**113. Roman Home Life and Religion.*

151. Cicero, Tusculan Disputations and Seneca, Moralia.—Two to five credits; winter. Sidey.

152. Quintilian, Book X and Horace, Ars Poetica.—Two to five credits; spring. Sidey.

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.*

**155. Cicero: De Oratore or Orator and Pro Plancio.*

185, 186. Vulgar Latin.—Vocabulary and syntax; relation to archaic Latin, literary Latin and the Romanic languages. Prerequisite, three years of college Latin or special permission. Two to five credits each quarter; autumn, winter. Thomson.

**190, 191, 192.—Latin Satire.*

Teachers' Course in Latin.—See Educ. 160C.

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.

*Not offered in 1925-1926.

DRAMATIC ART

Denny Hall

Associate Lovejoy, Assistant Professor Hughes, Associates James, Crawford

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 65 to 74 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, may be entered at the beginning of the first, second or third quarters.

4. Pantomime.—Principles of gesture and pantomime. The body as an expressive medium in dramatic action. Individual and group production of original and standard pantomimes. Three credits; autumn, winter. Lovejoy.

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. Three credits; autumn, winter, spring. Crawford.

6, 7, 8. Phonetics, Advanced Course.—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. Three credits a quarter; autumn, winter, spring. Crawford.

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. James.

101-102-103. Play-acting.—Practical course in the art of acting. Interpretation of standard and original plays. Three lectures and two 2-hour laboratory periods a week. Prerequisite, Dram. Art 4 and 5. Fee, $1. Five 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. Three hours lecture, and six hours laboratory. Lab. fee for 104, $3. Five credits a quarter; autumn, winter, spring. James.

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; autumn, winter, spring. Lovejoy.

151, 152, 153. The History of Dramatic Form.—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.—*Introductory Public Speaking.*—Five credits; autumn, winter, spring. Breland.

English 41.—*Advanced Public Speaking.*—Five credits; winter, spring. Breland.

English 42.—*Extempore Speaking.*—Three credits; autumn, winter, spring. Breland.

ECONOMICS AND BUSINESS ADMINISTRATION

Commerce Hall

Professors Lewis, Ayer, Gould, Preston, Moriarty, Cox, Dakan, Eldred; Associate Professors Smith, Skinner, Atkinson, Burd; Assistant Professors McMahon, Gregory, Leib; Lecturers McConahey, Robertson, Davis, Burton, Draper, Truax; Associates Van de Walker, Butterbaugh; Instructors Hamack, Farwell, Russell, Morse.

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, 57, 58, 61, 70, 104, 121, 159, 160, 161, 162, 164, 165, 166, 168, 181-182-183, 201, 205, 207.

B.A. 1 and 2 are absolutely prerequisite for all B.A. courses except with the permission of the dean.

1. General Economics.—General principles of economics. Fee, $1. Five credits; autumn, winter, spring. Lewis, Preston.

2. Applied Economics.—Practical applications of fundamental economic principles. Fee, $1. Five credits; winter, spring. Lewis.

3. General Economics.—Same as B.A. 1 above, abbreviated for students in chemistry, pharmacy, forestry, fisheries and engineering. Fee, $1. Three credits; spring. Atkinson.

7. Geographic Background of Industry.—The world's principal agricultural and mineral resources; geographical distribution and development; governmental policies of conservation; world commerce, trade routes. Fee, $1. Five credits; autumn, winter, spring. Skinner.

15. Typewriting I.—Fundamental principles of typewriting. Fee, $10. No credit; autumn, winter, spring. Hamack, Anderson.

16. Typewriting II.—Devoted to increasing the speed of the student on the typewriter. Fee, $10. No credit; autumn, winter, spring. Swift, Hamack, Anderson.

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 Operations.—Types of vessels, with reference to materials and methods of construction, stress and stability of hulls, methods of pro-

pulsion, measurement and stowage of cargo. Fee, $1. Five credits; autumn, winter. Farwell.

52. Navigation.—Correction of courses; the sailings, dead reckoning, piloting, latitude, longitude, azimuth, amplitude, determination of position at sea by methods of Marc Saint Hilaire and Aquino; compass adjusting. Fee, $1. Five credits; winter. Farwell.

54. Business Law.—Fundamental principles of law. General and practical principles developed from problems and selected cases, particularly as related to the law of contracts, property, agency, negotiable papers; insurance, partnership and corporations with special lectures on the statutory regulations pertaining thereto. Prerequisite, sophomore standing. Fee, $1. Three credits; autumn. Ayer.

55. Business Law.—A continuation of B.A. 54. Fee, $1. Three credits; winter. Ayer.

56. Business Law.—A continuation of B.A. 55. Fee, $1. Three credits; spring. Ayer.

57. 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, $1. Five credits; autumn, winter, spring. Preston.

58. Risk and Risk Bearing.—The risk factor in its economic and social consequence; ways of meeting risk; the general broad outline of life, fire and other insurance. Fee, $1. Five credits; autumn, spring. Smith.

59. Elements of Business Statistics.—Application of statistics to business problems. Prerequisite, Math. 13. Fee, $1. Five credits; autumn, winter, spring. Russell.

61. Social and Economic Standards of Living.—Their origin and development; class standards and their influence on industry. A comparative study of budgets. Fee, $1. Five credits; autumn, winter, spring. 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, $1. Five credits; autumn, winter, spring. Van de Walker, Butterbaugh, Draper, Cruzen, Bolsover.

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, $1. Five credits; autumn, winter, spring. Butterbaugh, Van de Walker, Draper, Cruzen, King.

64. Principles of Accounting.—Preparation of balance sheets and profit and loss statements; factory costs; general principles of valuation; causes and methods of treating depreciation; capital and revenue concepts. Prerequisites, B.A. 62, 63. Fee, $1. Five credits; autumn, winter, spring. Gregory, Draper, Van de Walker, Butterbaugh, Cruzen.

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, $1. Five credits; autumn, winter. Gould.

70. 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, $1. Five credits; autumn, spring. Moriarty.

81. Secretarial Correspondence.—For students who have a thorough knowledge of shorthand and typewriting, covering the responsibilities placed on the secretary in handling correspondence, letter writing, etc. Prerequisites, B.A. 15, 16, 18, and 19. Fee, $5. Five credits; autumn. Hamack.

82. Secretarial Forms and Papers.—For students who have a thorough knowledge of typewriting, or have completed B.A. 15 and 16. Includes a knowledge of the many uses to which the typewriter is put in the preparation of business forms and papers. Prerequisites, B.A. 15 and 16. Fee, $5. Five credits; winter. Hamack.

83. Office Training and Practice.—General principles of business conduct, ethics of the office, shipping, filing systems, etc., and general handling of work to be assigned as nearly like actual office work as possible. Prerequisites, B.A. 15, 16, 18, 19. 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, $1. Five credits; winter. Draper.

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, $1. Five credits; autumn. Atkinson.

105. Business Organization.—Business corporations, associations, combinations; special reference to their functions, operation, advantages and disadvantages, relation to the anti-trust laws. Fee, $1. Five credits; autumn. Leib.

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, $1. Five credits; winter. Atkinson.

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, $1. Five credits; autumn, winter, spring. Burton.

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, $1. Prerequisite, B.A. 110. Five credits; autumn, winter, spring. Cox.

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. 110, 111. Fee, $1. Five credits; autumn, winter, spring. Cox.

113. Ports and Terminals.—Factors of a well coordinated port; modern terminal facilities; representative river, lake and sea ports. Fee, $1. Three credits; winter. Farwell.

115. Business Correspondence.—Business letters; analysis of principles; development of judgment on points of business policy. Prerequisites, English 1 and junior standing. Fee, $1. Five credits; autumn, winter, spring. Burd.

116. Business Report Writing.—Methods of securing and arranging facts; effective use of charts and graphs; practical application in frequent writing, culminating in major report based on personal investigation. Prerequisites, English 1 and junior standing. Fee, $1. Five credits; winter. Burd.

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 shipments. Prerequisite, B.A. 7. Fee, $1. Five credits; autumn. Atkinson.

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, $1. Five credits; spring. Farwell.

121. Corporation Finance.—Finanical problems connected with promotion of corporations, underwriting and sale of securities, management, expansion and reorganization of unsuccessful corporations. Prerequisites, B.A. 62, 63, 57. Fee, $1. Five credits; autumn. Dakan.

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. 57. Fee, $1. Five credits; winter. Dakan.

125. Banking Practice.—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. 62, 63, 57. Fee, $1. Five credits; winter. Dakan.

126. Commercial Credits.—Extension of credit; the credit department; sources of information; credit analysis; credit insurance; practical problems. Prerequisite, B.A. 57. Fee, $1. 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. 57. Fee, $1. 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. McIntyre.

131. Advanced Industrial Analysis and Control.—Budgetary control of expenses; effects of legislation on costs; commonly accepted indices of labor efficiency. Following same method as the preceding course, the problems of manufacturing and production from the point of view of owners and executives. Fee, $1. Five credits; winter. McIntyre.

134. Market Organization.—Survey of marketing processes and systems; purchasers' buying habits and producers' distribution channels; the middlemen and their functions; the retail outlets. Fee, $1. Five credits; autumn. Russell.

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 weaknesses in prevailing methods of marketing. Fee, $1. Five credits; winter. Eldred

136. Market Analysis.—Product analysis; price policies and sales strategy; sales promotion methods. Prerequisite, B.A. 134. Fee, $1. Five credits; winter. Russell.

137. Advertising Campaigns.—Advertising appeals and their presentation; advertising media and their selection; appropriations; campaign plans. Prerequisite, B.A. 134. Fee, $1. Five credits; spring. Russell.

**138. Sales Management.*

139. Social Insurance.—A study of employes' liability and workmen's compensation legislation and practice in the United States and Europe; public health, old age and employment insurance. Prerequisite, junior standing. Fee, $1. Five credits; spring. Smith.

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. 70, or equivalent. Fee, $1. Five credits; spring. 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, $1. 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, $1. Five credits; winter. Atkinson.

145. Trade of the Americas.—Resources and trade of Mexico and the Central American and South American countries. Prerequisite, B.A. 7. Fee, $1. Five credits; spring. Skinner.

146. Retail Sales Problems.—Fundamental principles underlying retail selling. Problems of stock display, personnel, and the consumer viewed from the point of the selling force. Fee, $1. Five credits; autumn. Morse.

147. Retail Buying Problems.—Problems of the buyer in relation to the sales force, the consumer, the store policy, and net profit. Fee, $1. Five credits; winter. Morse.

148. Retail Store Organization Problems.—Fundamental principles underlying departmentalization; and financial, personnel, and administrative organization. Fee, $1. Five credits; spring. Morse.

149. Marine Insurance.—History, principles and practice of marine insurance as applied to ships, freight and cargo. Prerequisite B.A. 58. Fee, $1. Five credits; winter. 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. 57, 62, 63, 104. Fee, $1. Five credits; spring. Atkinson.

*Not offered in 1925-1926.

**151. Rail and Marine Rates.*

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, $1. Three credits; spring. Farwell.

153. Marketing of Lumber.—Study of the inter-relations of manufacturers, wholesalers and retailers of lumber. Application of economic principles to effective methods of marketing lumber. Fee, $1. Two credits; spring. Russell.

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. Prerequisites, B.A. 111, 112. Fee, $1. 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. Prerequisites, B.A. 111, 112. Fee, $1. 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. Prerequisites B.A. 111, 112. Fee, $1. 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. Prerequisites, B.A. 111, 112. Fee, $1. 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. Prerequisites, B.A. 111 and 112. Fee, $1. 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. 57. Fee, $1. Five credits; spring. Preston.

160. Advanced Economics.—Theories of price determination and distribution, and a critique of the inter-reactions of political and economic principles. Fee, $1. Five credits; autumn, winter, spring. Moriarty.

161. American Labor Problems.—Relation between the development of the American Labor Movement and free lands, immigration, economic organization, prices, industrial crises. Fee, $1. Five credits; autumn. McMahon..

162. European Labor Problems.—Labor movements of modern Europe; economic and political backgrounds, in relation to types of labor organizations. Fee, $1. Five credits; winter. McMahon.

163. Industrial Management.—Problems of promotion and location of industrial plants. Selection of site, layout of processes, and control of

*Not offered in 1925-1926.

material. Types of buildings, lighting, safety appliances, economic and psychological effect of scientific management. Fee, $1. 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 agriculture, marketing problems, reclamation and land settlement policies. Fee, $1. Five credits; winter. Eldred.

165. Labor Legislation.—Development of the law, its interpretation in the solution of the American and European labor problems. Fee, $1. Five credits; spring. Leib.

166. Women in Industry.—The evolution of women's work; relative importance of women in industry; social reaction in labor legislation. Fee, $1. Five credits; spring. McMahon.

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, $1. Five credits; winter. Leib.

168. History of Economic Thought.—The chief contributors to economic theory from Adam Smith to Bohm-Bawerk as a basis for understanding present economic problems. Fee, $1. Five credits; winter. Moriarty.

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, $1. Five credits; spring. Eldred.

**170. Real Estate and Casualty Insurance.*

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, $1. 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, $1. Five credits; autumn. Skinner.

175. Advanced Business Statistics.—Collection, presentation and interpretation of statistical data relating to business operations, including consideration of business barometers, market analysis, sales and advertising. Prerequisite, Math. 13. Fee, $1. Five credits; spring. Dakan.

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, $1. Prerequisites, B.A. 64, 121, and 122. Five credits; spring. Dakan.

181-182-183. 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, $1. Two credits; autumn, winter, spring. McMahon.

*Not offered in 1925-1926.

184. Auditing Technique.—Prerequisite, B.A. 111, 112. Fee, $1. 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. 111,112. Fee, $1. 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. Morse.

189. Bank Credit Administration.—A study of the administration of bank credit based on actual problems selected from portfolios of Pacific Northwest banks. Fee, $1. Three credits; winter. Truax.

191 ABC. Research in Accounting.—Two-five credits; autumn, winter, spring. Davis.

195 AC. Research in Foreign Trade and Transportation.—Two-five credits; autumn, spring. Skinner, Atkinson.

196 BC. Research in Management.—Two-five credits; winter, spring. Leib, Gregory.

197 AB. Research in Business Finance.—197A, attention given to international financial reconstruction. 197B, attention to monetary and price theory. Two-five credits; autumn, winter. Preston.

198 AB. Research in Marketing and Advertising.—Two-five credits; autumn, winter. Russell.

COURSES FOR GRADUATES ONLY

201 ABC. Graduate Seminar.—Two-five credits; autumn, winter, spring. Lewis.

205 ABC. Seminar in Value and Distribution.—Two-five credits; autumn, winter, spring. Moriarty.

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; Assistant Professors Williams, Dvorak; Lecturer Hughes; Associates Draper, Watson; Teaching Fellow Redford.

Note: All special teachers' courses are listed and numbered as education courses.

Course 101 is open to sophomores who have received 65 credits in college courses. It is prerequisite to all other courses in education for all

students except college graduates and students entering from normal schools. The remaining courses in this group (1) are open to juniors and seniors. Courses 101, 110, 119, 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, 110 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. 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 approved equivalent is prerequisite to all other courses in education, except for normal school and college graduates. Five credits; autumn, winter, spring, or summer. Ayer, Watson.

110. 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. Prerequisite Educ. 101; recommended also 119. Five credits; autumn, winter, spring, or summer. Williams.

115. Child Study.—Development of humanitarian and scientific interest in children; scope, methods, problems, relating to education in the home, school and society. Great leaders in child study including Froebel, Pestalozzi, Hall, Dewey, Montessori. Two credits; autumn. Bolton.

119. Secondary Education: Problems of the High School Teacher.—Secondary school curricula and closely related problems. Prerequisite, Educ. 101. Three credits; autumn, winter, spring, or summer. Draper.

145. Practice Teaching I.—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, 110, 119. Five credits; (For Phys. Educ. majors, two, three or five credits). Applications for practice teaching assignments should be made preceding the term when taken. Autumn, winter or spring. Hughes.

**146. Practice Teaching II.*

Courses 101 and 110 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 fee. Prerequisite, at least two years of college chemistry. Two credits; autumn, winter, or spring. Smith.

160C. Teachers' Course in Latin.—Methods and problems in the teaching of high school Latin. Prerequisites, Latin 50 or 60 or 70. Except by special arrangement this course must be taken in combination with Latin 107. Two credits; autumn. Clark.

*Not offered in 1925-1926.

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. Fee, $1. Five credits; spring. Two hours only count as education credit, 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. 81, 82 and 102. Fee, $1. 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. Saunders.

**160G. Teachers' Course in German.*

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; autumn, winter. Raitt, Denny.

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. Carpenter.

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. Dickey.

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, etc. Two credits; spring. Laube.

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; spring. Rhodes.

160R. Teachers' Course in Physical Education.—Curricula, application of educational principles to the teaching of physical education, administra-

*Not offered in 1925-1926.

tion in public schools. Prerequisites, 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; Span. 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. French.

Piano Teaching Methods—See Music 165, 166.

160Z. Teachers' Course in Zoology.—For students preparing to teach zoology in high schools. Lab fee, $1. Prerequisite, Zool. 1-2. 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, 110, 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, $2.50. 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. Two credits, autumn. Roberts.

156. High School Organization.—The high school principal. A job-analysis including work of organizing the school, the teaching staff, the high school population, publicity, curriculum making, etc. Prerequisite, Educ. 119. Two credits; spring. Roberts.

161. History of Education.—Social interpretation of the historic beginnings of education, contributions of the Greeks and Romans, development of Christianity, medievalism, and the beginning 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.

165. Problem Children.—Subnormal, superior, backward, eccentric, and delinquent children studied from the point of view of the teacher. Five credits; winter. Dvorak.

170. Educational Psychology.—Psychological basis of educational processes. Native endowment as the basis for learning; individual differences; habit formation; technique of learning, the learning curve, transfer of training; emotional and volitional behavior. Five credits a quarter; winter, spring. Bolton.

172. Psychology of Elementary School Subjects.—Survey of experimental studies which furnish the basis for approved practice in learning and teaching reading, writing, arithmetic, spelling, drawing, language, history, geography. Prerequisites, Educ. 101, 110, 119. Three credits; winter or summer. Williams.

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, 110, 119. Three credits; spring. Williams.

174. Psychological Problems of Vocational Education.—Intelligence levels and vocational efficiency, acquisition of skills, vocational personnel, trade and vocational tests. Three credits; spring. Dvorak.

**176-177-178. Educational Guidance.*

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; winter.
Anderson, Soule, Koehne.

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.

**186-187. Elementary School Curriculum.*

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. Randolph.

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; $4 for course. 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 ed-

*Not offered in 1925-1926.

ucation. The following courses may be counted toward the masters' and doctors' degrees:

201. 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; autumn and summer. Williams.

206. Educational Statistics.—Thorough course in the statistical treatment and interpretation of educational 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. Required of all graduate students working on theses in education. 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 reorganizations. Influence upon educational theories and practices in America. Two credits a quarter; winter, spring. Bolton.

**232-233. Advanced Educational Psychology.*

235. Survey of Recent Educational Literature.—For teachers and administrators in active service (1) who desire to investigate current educational problems, and (2) who desire to trace old educational interests through recent educational writings. Readings, discussions, reports based on reviews of new books and surveys of present unsolved and controversial problems in magazine literature. Two credits; winter. Roberts.

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. Roberts.

285-286-287. Seminar in Educational Measurements.—Theory of educational measurements. Methods of test construction. Critical evaluation of new test material. Reports. For advanced students only. Lab. fee, $2. Two credits a quarter; autumn, winter, and spring. Dvorak.

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. Three to five credits; autumn, winter, spring. Staff.

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*Not offered in 1925-1926.

ELECTRICAL ENGINEERING

Engineering Hall

Professors Magnusson, Kirsten, Loew; Assistant Professor Shuck; Instructors Hoard, G. S. Smith, Eastman, Lindblom

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.
Lindblom, Hoard, Shuck.

102. Direct Currents Laboratory.—Continuous current machinery, for non-electrical students. Prerequisite, Phys. 98. Lab. fee, $4. Two credits; autumn, winter, spring. Eastman, Shuck.

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. Hoard, Lindblom.

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. 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.

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. Hoard, Shuck.

***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. Lindblom, Shuck.

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.
Smith, Lindblom, Shuck.

131. Electric Communications.—Wire and radio telephone and telegraph. Theory, construction and operation of electric communication systems. Central telephone station practice. Junior or senior elective. Prerequisite, E.E. 109, 110. Four credits; autumn, winter. Eastman.

***132. Telephones and Telegraphs.*—Details of automatic and manual switchboards; testing and locating faults; multiplex telegraphy; railway signal systems. Junior or senior elective. Prerequisite, EE. 131. Lab. fee, $2. Three credits. Eastman.

**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. Prerequisite, E.E. 109, 110. Lab. fee, $2. Four credits; spring. Shuck.

152. Electrical Machine Design.—Complete design of one direct current generator or motor. Prerequisite, E.E. 111, 112. Five credits; autumn, winter, or spring. Loew.

****154. Design of Electrical Apparatus.***—Switchboards, transformers, alternators, alternating current motors, etc. Prerequisite, E.E. 152. Four credits. Kirsten.

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.

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, Smith.

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, or spring. Loew, Hoard.

164. Alternating Current Laboratory.—To be taken with E.E. 163. Prerequisite, E.E. 162. Lab. fee, $4. Four credits; autumn, winter, spring. Eastman, Shuck.

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. Prerequisite, E.E. 163, 164. Four credits; autumn, spring. Loew.

180, 182, 184. Research.—Two to five credits a quarter; autumn, winter, spring. Magnusson, Loew.

181. Radio.—Radio systems; lineal, open and complex oscillations; coupled circuits; resonance; transmitters; receivers; vacuum tubes in radio work; quenched and undamped oscillations. Prerequisites, E.E. 161, 162. Lab. fee, $2. Five credits a quarter; winter or spring. Loew.

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.

191. Engineering Equations.—Mathematical investigation of electrical phenomena with quantitative solutions of typical engineering problems. Prerequisite, E.E. 161, 162. Three credits; winter. Loew.

****Will be offered if a sufficient number of students elect the course.**

190, 192, 194. Seminar.—Prerequisite, E.E. 163, 164. Four credits; autumn, winter, spring. Magnusson.

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. Prerequisite, E.E. 163, 164. Two credits; autumn, winter, or 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, or spring. Smith.

198. Electric Transients Laboratory.—Continuation of E.E. 196. Lab. fee, $2. Two credits; autumn, winter, or spring. Smith.

COURSES FOR GRADUATES ONLY

210, 212, 214. Research.—Two to five credits a quarter; autumn, winter, spring. Magnusson, Loew, Kirsten.

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. Schaller.

53. Foundry.—Bench and floor moulding, use of moulding machines, core making, cupola practice, and foundry management. Lab. fee, $2. One credit; autumn, winter, spring. 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. 53. Lab. fee, $2. One credit; autumn. Sullivan.

106. Principles of Shop Management as Applied to Engineering Shops.—Prerequisite, Shop. 105. Lab. fee, $2. One credit; winter. Sullivan.

107. Industrial Management.—Design and equipment of a representative manufacturing plant. Prerequisite, Shop. 106. Lab. fee, $2. One credit; spring. Schaller.

115. Shop Management.—Planning, routing, inspecting, material handling together with the more general phases of plant supervision. Prerequisite, Shop. 55. Lab. fee, $2. Three credits; winter. Schaller.

120. Factory Cost Analysis.—Analysis of shop practice with view to determining costs of operation and products. Lab. fee, $2. Three credits; autumn and spring. Schaller.

ENGLISH

Denny Hall

Professors Padelford, Parrington, Benham; Associate Professors Milliman, Cox, Griffith; Assistant Professors Harrison, Brown, Hughes; Lecturer Sperlin; Associates Lawson, Jones, Vickner, Kerrigan, Hall; Instructors Breland, ———, ———, ———; Assistants and Teaching Fellows.

REQUIREMENTS FOR MAJOR STUDENTS

The major requirement in English is from 36 to 60 hours. In addition credits up to 10 hours may be counted for English 1 and 2. The plan of work suggested is (1) a minimum of 27 hours in lectures and discussion courses, and (2) normally a 9 hour course of individual reading in English and American literature under departmental tutors, extending throughout the year. The minimum requirement of 36 hours for a major subject is commonly inadequate to prepare for the senior examination and it will be well to increase the election very materially.

Senior Examination: At the conclusion of the senior year all major students are required to take an examination in literature. 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. Courses 130 to 138 are extensive studies in the history of English literature, designed to answer the first requirement; around these should be grouped as many special intensive courses as possible. For American literature the important courses are 161, 162, 163.

1-2-3. Elementary Composition.—Principles and practice of composition, with conferences for personal criticism. Those whose preliminary training has been superior are excused from the course on examination. A grade of "A" in course 1 excuses a student from 2, on the recommendation of the instructor. Five credits for two quarters; autumn, winter, spring. For Fine Arts students, three credits; autumn, winter, spring.
Miss Lawson in charge.

4. Elementary Composition.—For students in engineering, forestry, fisheries, and pharmacy. Students are required to repeat the course if their work is not of high quality. Three credits; autumn, winter, spring.
Miss Lawson in charge.

5. Elementary Composition.—A second quarter's work for students in fisheries and forestry. Three credits; winter, spring. Miss Lawson in charge.

21. Introduction to Poetry.—Designed to develop appreciation and understanding of poetry. Study of the poetic mind and of the materials and methods of poetic art. Illustrative reading from poets of all periods. Five credits; winter, spring. Hughes.

**24, 25, 26.—Victorian Prose and Verse.*

37. Argumentation.—Special attention to analysis, evidence, proof, and refutation. Each student required to construct briefs and to develop them into finished arguments. Prerequisite, English 1. Five credits; autumn, winter, and spring. Breland in charge.

38. Debating.—Oral application of the principles of argumentation Preparation of briefs required for each discussion. Important questions studied and debated in class. Prerequisites, English 37. Five credits; winter, spring. Jensen.

*Not offered in 1925-1926.

40. Introductory Public Speaking.—Principles of effective public speaking. Attention directed to both composition and delivery. Practice in preparing and delivering several types of speeches. Voice training in speech laboratory. Prerequisite, English 1. (May receive Dramatic Art credit.) Five credits; autumn, winter, spring. Breland in charge.

41. Advanced Public Speaking.—Principles of speech composition. Study of effective expression of images, concepts, and arguments. Consideration of the problems of attention, interest and successful appeal to action. Methods of research and preparation. Practice in preparing and delivering longer addresses than in English 40. (May receive Dramatic Art credit.) Five credits; winter, spring. Breland.

42. Extempore Speaking.—Aims to develop accurate thinking, ease on the platform, and forceful extemporization. Material for each speech carefully planned; only the language is extempore. May receive Dramatic Art credit. Prerequisite, English 40-41 or special permission. Three credits; autumn, winter, spring. Breland.

51, 52, 53. Advanced Composition. Composition based on model English and American essays. May be taken for upper division credit. Prerequisite, English 1-2. Two sections. Three credits; autumn, winter, spring. Milliman.

54, 55, 56. Advanced Composition.—Criticism and style designed to give a critical and philosophical basis to one's judgments on men, affairs, literature and art. May be taken for upper division credit. Prerequisite, English 1-2. Three credits; autumn, winter, spring. Cox.

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 majors. Four sections (Section A for pre-journalism majors). Five credits; autumn, winter, spring. Griffiths 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. Two credits; autumn, winter, spring. Milliman.

70, 71. Shakespeare.—Detailed study of a few plays, with rapid reading of the remainder. Three credits; autumn, winter. Three sections. Padelford.

72. Shakespeare.—Study of the historical plays. Two sections. Three credits; spring Brown, ———.

73, 74, 75. Lower Division Contemporary 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. Four sections. Three or five credits; autumn, winter, spring. Milliman, Harrison.

98. The Bible as Literature.—The literature of the Old Testament. Open to all. Three credits; spring. Padelford.

101. Intercollegiate Debating.—Students who represent the University in intercollegiate debates will, if regularly registered for English 101, be allowed two credits for the quarter in which the debating takes place, on recommendation of the debate coach. Two credits; autumn, winter, spring. Breland in charge.

102. Advanced Composition for Engineers.—Open to engineering students who have done superior work in elementary composition. Three credits; winter, spring. Lawson in charge.

104. Contemporary Literature: American.—Special studies in contemporary American literature for advanced students. Three credits; autumn, winter, spring. Cox, Brown, Harrison.

105. Contemporary Literature: Continental.—Special studies in contemporary Continental literature for advanced students. Three credits; autumn, winter, spring. Harrison, Cox, Brown.

106. Contemporary Literature: English.—Special studies in contemporary English literature for advanced students. Three credits; autumn, winter spring. Brown, Harrison, Cox.

110, 111, 112. Advanced Verse Writing.—Given in conjunction with English 61, 62, 63. All the elementary credits must be earned before advanced credits will be given. Two credits; autumn, winter, spring. Hughes.

**124, 125, 126. The English Drama.*

**127, 128, 129. Milton and His Contemporaries.*

130 Mediaeval Literature: Survey.—Old and Middle English classics studied in relation to the life and ideals of the Middle Ages. The epic, Caedmon, Cynewulf, King Alfred, The Pearl, Piers Plowman, Gower, Chaucer. Three credits; autumn. Griffith.

131. Mediaeval Literature: Chaucer.—The poetical works of Chaucer. Three credits; winter. Griffith.

132. Mediaeval Literature: Romances.—Mediaeval narrative literature, tales, lais, saint's legends, metrical romances. Three credits; spring. Griffith.

133, 134, 135. Main Tendencies in English Literature, I.—English national ideals from 1400 to 1700. The autumn quarter is devoted to the progress of the Renaissance in English literature and culture, the winter quarter to the Reformation in England, and the spring quarter to a consideration of Milton and Dryden. Three credits; autumn, winter, spring. Benham.

136, 137, 138. Main Tendencies in English Literature, II.—English national ideals from 1700 to 1900. The fall quarter is devoted to eighteenth century prose and poetry, the winter quarter to nineteenth century prose, and the spring quarter to a consideration of Matthew Arnold and William Morris. Three credits; autumn, winter, spring. Parrington.

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, 145, 146. The Romantic Revolt.*

**147, 148, 149. The English Novel.*

161, 162, 163. History of American Culture.—A consideration of 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. Three credits; autumn, winter, spring. Parrington.

*Not offered in 1925-1926.

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.

**167, 168, 169. Later American Poetry and Criticism.*

170, 171, 172. Shakespeare.—His work as a whole in the light of Elizabethean dramatic conditions. Three credits; autumn, winter, spring.

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174, 175, 176. Nineteenth Century English Poetry.—Wordsworth, Shelley, Keats, Tennyson, Browning, Swinburne, Morris, Arnold, Rossetti. Three credits; autumn, winter, spring. Padelford.

183, 184, 185. General Literature.

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. Two credits; autumn, winter, spring. Breland.

191, 192, 193. Major Conference.—Individual conferences 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. Harrison, Cox.

**194, 195, 196. Studies in Romance.*

197, 198, 199. British Culture in the Nineteenth Century.—Oustanding features of English life in the nineteenth century, as these are exhibited in literature and art. Three credits; autumn, winter, spring. Benham.

Teachers' Course.—See Educ. 160E.

COURSES FOR GRADUATES ONLY

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.*

201, 202, 203. Introduction to Graduate Study.—Methodology and biblography of the English language and literature. One credit; autumn, winter. spring. Benham.

204, 205, 206. Pro-seminar in Chaucer.—The works of Chaucer and the problems of Chaucerian scholarship. Two to eight credits; autumn, winter, spring. Griffiths.

**207, 208, 209. English Literature from Chaucer to Dryden.*

211, 212, 213. Seminar in 16th Century Literature.—For the coming year the class will study the poetry of Edmund Spenser as a fusion of classical, mediaeval, and Renaissance impulses and traditions. Primarily for students who are in the second year of graduate study. Two to eight credits; autumn, winter, spring. Padelford.

224, 225, 226. American Literature.—Intensive study of early American literature. Two to eight credits; autumn, winter, spring. Parrington.

230, 231, 232. Old and Middle English.—Early English Grammar Readings in Old and Middle English authors. Three credits; autumn, winter, spring. Vickner.

*Not offered in 1925-1926.

250, 251, 252. Thesis Research.—Time and credit to be arranged. Autumn, winter, spring. Staff.

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.

COURSES IN FOREIGN LITERATURE TAUGHT IN ENGLISH

(For details see foreign language departments)

French 118, 119, 120; German 106, 107, 108; Greek 13; Latin 13; Italian 181, 182, 184; Oriental Literature and Language 80, 50, 51, 52; Scandinavian 180, 181, 182.

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.

FISHERIES

Fisheries Hall

Professors Cobb, Kincaid; Associate Professor Fellers; Instructors Crawford, Nightingale

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. Winter quarter is open to short course students. Two credits; winter, spring. Cobb.

(Courses 7, 8, 9, 10, 11, 12—see short course circulars.)

30. Food Laws.—Study of federal, state and foreign laws regulating the sale of food products. One lecture a week. One credit; winter. Fellers.

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. Nightingale.

53, 54, 55. Ichthyology.—Structure, classification and habits of economic fishes. Course 5 will include other economic marine animals, particularly oysters and clams. Prerequisite, Zool. 1, 2. Lab. fee, $3. Five credits a quarter; autumn, winter, spring. Crawford.

101, 102, 103. Fish Culture.—Developmental history and artificial propagation of economic fishes, lobsters, etc. Prerequisite, Fish 53, 54, 55, and Zool. 5. Lab. fee, $3. Five credits a quarter; autumn, winter, spring. Crawford.

104, 105. Fishery Methods.—Construction and uses of apparatus; handling and transportation of products, etc. Three lectures and two laboratory periods. Lab. fee, $3. Five credits a quarter; winter, spring. Cobb.

107. Fresh, Frozen and Cured Fishery Products.—Commercial methods in the handling, care, and transportation of fresh and frozen fishery products; methods of curing and preservation by drying, salting, smoking and spicing. Prerequisite, Fish. 55. Three lectures and two laboratory periods. Lab. fee, $4. Five credits; autumn. Nightingale.

108. Canning of Fishery Products.—Commercial methods of canning aquatic animals in either tin or glass. Prerequisite, Fish. 107. Three lectures and two laboratory periods. Lab. fee, $4. Five credits; spring. Nightingale.

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; spring. 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. 102. Five credits; autumn. ———.

***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. 107 and 108. Three lectures and demonstrations. Three credits; autumn. Nightingale.

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. 55, 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 to be arranged. 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. Nightingale.

190. Fishways and Fish Stops.—The design, construction and uses of fishways and fish-stops. Two lectures and one laboratory period. 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.

COURSES FOR GRADUATES

201, 202, 203. Research Problems.—Investigation of assigned problems. Open to qualified graduates after consultation. Credits and time to be arranged. Autumn, winter, spring. Cobb and staff.

**Will be offered if a sufficient number of students elect the course.

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 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. 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. 54, 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; clearing from the standpoint of 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 character 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 general physics. Lab. fee, $2. Five credits; autumn. Grondal.

**102. Wood Identification.*

103. Wood Analysis.—Identification, physical properties and characteristics of woods used in building construction. Primarily for architecture and business administration students. Two credits; spring. Grondal.

104. Timber Testing.—Stresses, tests, theory of flexure, moisture and strength; mechanical properties of wood. Required of juniors. Prerequisite, Math. 54, 55, 56, and For. 101, general physics. Lab. fee, $2. Five credits; winter.

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 one year of chemistry. Lab. fee, $2. Five credits; spring. 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. Prerequisite, For. 126 or may be taken concurrently. Three credits; winter. 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. Prerequisite, B.A. 1. Three credits; winter. Kirkland.

151. Forest Finance and Valuation.—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. Five credits; autumn. Kirkland.

152. Forest Organization.—Principles of forest organization and regulation of the cut; advantages of foresight and planning in forest operations for a term of years in advance; sustained yield management of forests; forest working plans. Required of students in senior or graduate year. Prerequisite, For. 151. Five credits; winter. 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.

*Not offered in 1925-1926.

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 one year of chemistry. Five credits; winter. 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. Prerequisite, For. 183. Three credits; winter. 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 186 unless followed by 187. Primarily for seniors and graduates. 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; spring, winter. Grondal.

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. Grondal.

208, 209. Seminar.—Reviews, assigned readings, reports, and discussions on current periodical literature and the more recent Forest Service publications. Two credits a quarter; autumn, winter. Kirkland, Winkenwerder.

213, 214, 215. Research.—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

Assistant Professors Wilcox, Collier; Instructors Hamilton, Amelleff, Miller, Hawthorne, Chittenden. Dodd

1. Engineering Drawing.—Lettering; engineering sketching, fundamental principles of working drawings. Lab. fee, $2. Three credits; autumn, winter, spring. Wilcox, Miller.

2. Engineering Drawing.—Detail and assembly drawings; readings of drawings; use of instruments; tracing; standards and conventions. Prerequisite, G.E. 1. Three credits; autumn, winter, spring. Wilcox, Miller.

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.

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. Prerequistes, G.E. 1, G.E. 11 and Math. 51. Must 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 graphic methods. Prerequisites, G.E. 1 and G.E. 2. Three credits; autumn, winter, spring. Wilcox, Collier.

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. Wilcox, Hamilton.

GEOLOGY

Science Hall

Professors Landes, Weaver; Assistant Professors Saunders, Goodspeed; Instructor ————

Courses in the department are grouped to lead into different fields of geological work, as follows:

General Geology: Courses 1-9, 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, 220-239.

The year in geology for Liberal Arts and Business Administration students may be satisfied by the following combinations: Courses 1 and 2; 1 and 11; 10 and 11; 1 and 112.

1. General Geology.—Physical. Geological agencies and processes affecting the earth. Lectures and laboratory work with occasional half-day field trips. Lab. fee, $2. Five credits; autumn, winter, spring. Goodspeed and Saunders.

2. General Geology.—Historical. Continuation of course 1, dealing with the origin and evolution of the earth. Lectures and laboratory work, with some field excursions. Prerequisite, Geol. 1. 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. 1. 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. Three or five credits; autumn. Saunders.

†*11. Weather and Climate.*—Weather elements and controls; causes and effects of atmospheric conditions; principles and methods of weather forecasting and use of instruments. With or without laboratory work. Lab. fee, $1. Three or five credits; winter. Saunders.

21. Mineralogy.—Crystallography followed by descriptive mineralogy and blowpipe methods. Prerequisite, Geol. 1 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. 1 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 or physiography. Two credits; spring. Landes.

111. Climatology.—Broader aspects of climate controls and characteristics of different climates and climatic provinces, with special references to United States and the Pacific Coast. Prerequisite, Geol. 10 or 11 or equivalent work. Three credits; spring. Saunders.

†*112. Physiography of the United States.*—Physiographic regions of the United States and their effects on development and history of the country. With or without laboratory work. Prerequisite, Geol. 10 or 1. Lab. fee, $1. Three or five credits; autumn. Saunders.

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 1. Three credits; winter. Saunders.

114. Oceanography.—The ocean, oceanic circulation and temperatures in their geographic relations and influence. Prerequisite, Geol. 10 and 11 or equivalent work. Two credits; spring. Saunders.

**116. Economic Geography of Washington.*

117. Geography of Asia.—Study of the continent by natural regions based on geology, topography and climate. Three credits; spring. Saunders.

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†May be taken without laboratory for three credits
*Not offered in 1925-1926.

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; winter. Saunders.

120. Petrology.—Rocks, their components, occurrence and structural relations. Occasional field trips. Lab. fee, $2. Prerequisite, Geol. 1 and 21. Three credits; spring. Goodspeed.

121. Advanced Mineralogy.—Opaque, metalliferous minerals studied with the reflecting microscope, or "mineragraphy"; relation of the latter to geologic, 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. 1, 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. 1 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 for majors in mining and geology. 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 discussions of papers, Prerequisites, Geol. 1 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. 1, 21 and 124. Five credits; winter. Landes.

128. Economic Geology.—Petroleum fields of the world. Lectures and discussion of papers. Prerequisites, Geol. 1 and 2. Three credits; spring. Landes.

129. Economic Geology.—Minor or less known metallic minerals used in the arts and industries. Prerequisite, Geol. 127. Three credits; autumn. Landes.

130. Economic Geology.—Minor or less known non-metallic minerals of commercial importance. Prerequisite, Geol. 126. Three credits; winter. Landes.

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.—Systematic study of fossil and living representatives of the Mollusca. 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. Saunders.

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. Weaver.

230. Advanced or research work in paleontology and stratigraphy. Credits and hours to be arranged. Each quarter. Weaver.

GERMANIC LANGUAGES AND LITERATURE

Denny Hall

Assistant Professor Eckelman; Associate Wesner; Assistant Terzieff

Requirements for a departmental major: at least 35 hours in the department chosen from courses other than German 1, 2, 3. For the departmental or academic major, who wishes a recommendation to teach: the same, including Ger. 110, Educ. 160G and at least nine credits in literature.

Credit is allowed for any quarter in any course except 1-2.

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, Wesner, Terzieff.

3. First Year Reading.—Reading of modern prose, conversation, composition, continuation of grammar. Prereqiusite, Ger. 1-2 or one year in high school. Five credits a quarter; autumn, winter, spring. Wesner, Terzieff.

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. Wesner.

6. Second Year Rapid Reading.—Modern prose, vocabulary building, simple conversation. Three credits; spring. Wesner.

10, 11, 12. Second Year Review Course.—Modern prose, grammar review with emphasis on syntax, simple conversation. Prerequisite as for Ger. 5. Two credits, autumn; three credits, winter, spring. Wesner.

60, 61. Lower Division Scientific German.—Introduction to chemical German. Class work. Suitable outside reading. Vocabulary building. Prerequisite, Ger. 5, 10 or 11; combinations with consent of instructor. Two or three credits; winter, spring. Eckelman.

100. Schiller.—Life and dramatic works. Jungfrau von Orleans. Don Carlos or Wallenstein. Assigned topics. Prerequisite, Ger. 6 or 12 or three years high school. Three credits; exceptional students may earn six credits; winter. Eckelman.

104. Recent Writers.—The best prose and dramatic literature adapted to rapid reading and representative of German middle class and industrial life. Written and oral reports. Prerequisite, Ger. 6 or 12 or three years of high school German. Three credits; autumn. Eckelman.

106, 107, 108. German Literature in Translation.—Goethe, the lyric poet. The novel and the drama of the nineteenth century. Reading and discussion of the most significant works. Written reports. No knowledge of German required. Three credits, autumn; two credits, winter and spring. Eckelman.

**110. Advanced Prose Composition and Conversation.*

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, courses 5 and 10, or 5 and 60, or 6, or three years in high school. Two or three credits a quarter; winter, spring. Eckelman.

**118-119-120. German Prose Reading.*

**121. Phonetics.*

**130-131-132. German Institutions.*

**133-134-135. Modern Novels.*

**136. Modern Drama.*

140. Studies in German Literature.—From the best prose and dramatic works after Schiller's time. An introduction to literary movements. Class reading and assigned topics. Prerequisite, Ger. 100 or equivalent. Three credits; exceptional students may earn six credits; spring. Eckelman.

**142. Lyrics and Ballads.*

**151. Lessing.*

**152, 153. Goethe's Lyrics and Dramatic Works.*

186, 187, 188. Nineteenth Century Literature.—The drama and novel to 1880. Kleist, Grillparzer, Hebbel, Ludwig, Raabe, Keller, Storm, C. F. 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.*

Teachers' Course in German.—See Educ. 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.

*Not offered in 1925-1926.

HISTORY

Denny Hall and Philosophy Hall

Professors Meany, Richardson; Associate Professor McMahon; Assistant Professors Lucas, Larsen; Associates Dahlin, Buchanan; Instructor Quainton; Professor Gowen and Lecturer Hall of the Department of Oriental Languages and Literature.

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 fulfilment 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 eighteen credits must be obtained in advanced undergraduate courses. 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, 57, 127; or 1, 61, 162; or 1, 160, 168; or Geology 10, followed by Economics 7 or 177; Political Science 1, 111; or 1, 112; or 151, 152, 153; Sociology 1, 150; Zoology 16.

II. Language and Literatures.—English 133, 134, 135 to be taken in correlation with History 5-6 and to be followed by English 136, 137, 138, or Liberal Arts 180, 181, 182. 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; Spanish 118, 119, 120; Oriental Languages and Literature 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 in 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.

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, Larsen, Quainton, 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.

21. History of China I.—From beginnings in the upper Yellow river valley B.C. 3000 to the Manchu Dynasty, A.D. 1644. Five credits; autumn. Hall.

22. History of China II.—From 1644 to present with special emphasis on the Chinese Republic. Five credits; winter. Hall.

30. History of Japan I.—From the emergence from barbarism and contact with Chinese culture of fifth century A. D., to the end of the Tokugawa Shogunate. Five credits; winter. Gowen.

31. History of Japan II.—From the Restoration to the present, with special attention to Japan's colonial expansion. Five credits; spring. Hall.

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 world to the times of Augustus. 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. Larsen.

81-82-83. England Since the Accession of George I.—Construction of the British commonwealth, Imperial problems, internal economic and institutional developments, especially the growth of democracy. Prerequisite, Hist. 1-2 or 5-6. By special work under direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Two credits a quarter; autumn, winter, spring. Quainton.

85-86. Medieval Civilization.—Main cultural features of the period from St. Augustine to Dante—thought, politics, art, literature, commerce and industry. By special work under direction of the instructor upper division students may receive upper division credit. Prerequisite, Hist. 1-2 or 5-6. Five credits a quarter; autumn, winter. Lucas.

101. Alexander the Great: his Empire and his Successors.—Three credits; autumn. Larsen.

**102. The Greek Federal Leagues: Their History and Institutions.*

103-104. The Roman Empire from Augustus to Justinian.—Three credits a quarter; winter, spring. Larsen.

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 course 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 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 are *required* to take this course. Two credits a quarter; autumn, winter, spring. Richardson, Buchanan.

**111. Greek Political Institutions.*

114. Renaissance and Reformation.—Prerequisite, 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.*

125. Turkey and the Near East, 1453-1924.—Deals with the Near Eastern question; the rise, expansion and decline of the Ottoman Empire; and the awakening and modern development of the Balkan nations. 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.*

**140. The New England Colonies.*

**141. American Revolution.*

143. History of United States, 1789-1815.—Open only to juniors, seniors and graduates. Three credits; autumn. McMahon.

144. History of United States, 1815-1846.—Open only to juniors, seniors and graduates. Three credits; winter. McMahon.

145. History of 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.

*Not offered in 1925-1926.

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 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 Educ. 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. Larsen.

211-212-213. Research in European History (1300-1600).—Two to five credits a quarter; autumn, winter, spring. Lucas.

215-216-217. Seminar in English History.—Two credits a quarter; autumn, winter, spring. Richardson.

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.

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*Not offered in 1925-1926.

HOME ECONOMICS

Home Economics Hall

Professor Raitt; Associate Professor Denny; Assistant Professors Patty, Bliss, Koehne; Instructors Dresslar, Lusby

(For curricula in Home Economics see page 88.)

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.

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, and 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.—Organization of the University, 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. Patty.

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 and three 2-hour periods, recitation and laboratory practice. Lab. fee, $6. Five credits; autumn, spring. Dresslar.

25. Textiles and Clothing.—Indentification and testing of 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.

*Not offered in 1925-1926.

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. Dresslar.

Principles of Nutrition.—(See Phys. Educ. 54-55-56.)—Food and nutrition in relation to health. Required of second year women. One lecture a week. Two-thirds of a credit; autumn, winter, spring. (Credit in physical education only.) Course 54 prerequisite to 55. (One section each quarters, three hours a week for two credits, thus completing the requirement in a single quarter.) Bliss.

101, 102. Needlecraft.—History of lace and needlecraft. Application of principles of design to modern needlework. Prerequisite, H.E. 8 and P.S.D. 9. Two 2-hour periods, recitation and laboratory work. Lab. fee, $2. Two credits a quarter; autumn, winter. 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. Koehne.

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. Koehne.

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. Koehne.

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. 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. Patty.

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.*—Finer processes in tech-

*Not offered in 1925-1926.

nique with emphasis upon esthetic values. Contribution of various countries to the art of cookery. Food customs and their significance. A survey of the literature of the subject. Laboratory practice, meal service and catering. Prerequisite, H.E. 116. Two 3-hour periods. Lab. fee, $6. Three credits; winter. (To be given in 1926-1927.) Dresslar, Lusby.

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.

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. 11. 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; spring. Denny.

130, 131. Clothing: Commercial Clothing Construction.—Laboratory practice on a commercial basis. Study of trade conditions. 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. Patty.

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 Patty.

135. Millinery.—Design, selection, practice in construction, 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; spring. Patty.

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 excursions. Lab. fee, $3. Three credits; autumn, 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; (to be given in/1926-1927). Dresslar.

188. Advanced Textiles.—Historic art fabrics. Intensive study of a modern fabric. Methods of commercial testing. Prerequisites, H.E. 25, Econ. 1. Two 2-hour periods, recitation and laboratory work. Lab. fee, $3. Two credits; spring. 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; autumn, winter, spring. Koehne.

191. Nutrition: Dietotheraphy.—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. Koehne.

Teachers' Course in Home Economics.—See Educ. 160I, 160J.

COURSES FOR GRADUATES ONLY

*200. *Special Food Problems.*—Research.

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. Koehne.

207, 208, 209. *Research in Textiles.*—Prerequisites, H.E. 25, Econ. 1. Credit to be arranged. Lab. fee, $1 per credit hour; autumn, winter, spring. Denny.

210, 211, 212. *Research in Costume Design.*—Prerequisites, H.E. 112-113, 133. Credit to be arranged; autumn, winter, spring. Patty.

JOURNALISM

Commerce Hall

Professor Spencer; Associate Professor Jones; Assistant Professors Kennedy, Borah; Associate O'Connor; Lecturer Hall.

1. *Journalism as a Profession.*—Survey of newspaper making in its various phases. Required of pre-journalism majors in the freshman year. Lab. fee, $1. One credit a quarter; autumn. Spencer.

51. *News Writing.*—Practice in news writing; study of news sources.

*Not offered in 1925-1926.

Required in the sophomore year of pre-journalism majors. Lab. fee, $2. Five credits; autumn, winter, spring. Borah, O'Connor.

61. The Community Newspaper.—Editorial problems peculiar to the community weekly. Required in the sophomore year of pre-journalism majors. Lab. fee, $1. Three credits; spring. Jones.

90, 91, 92. Current Events.—Current state, national and world movements. One quarter required of majors in journalism. Prerequisite, Journalism 51. Lab. fee, $1 a quarter. One credit a quarter; autumn, winter, spring. Jones, Borah.

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. Borah.

104. Newspaper Administration.—Newspaper organization and management. Prerequisite, Jour. 51. Two credits; spring. Spencer.

**105. The Sporting Page.*

109. Literary and Dramatic Reviewing.—Routine work of literary and dramatic editors. Prerequisite, Jour. 51. Two credits; winter. Borah.

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; winter, spring. Spencer, Borah.

128. Work of the Foreign Correspondent.—Prerequisite, Jour. 101. Lab. fee, $1. Three credits; winter. Hall.

130. Fundamentals of Advertising.—Lab. fee, $2. Five credits; autumn. Jones.

131. Display Advertising.—Prerequisite, Jour. 130. Lab. fee, $2. Five credits; winter. 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. Two credits; spring. O'Connor.

136. Comparative Journalism.—Prerequisite, Jour. 51. Lab. fee, $2. Three credits; autumn. Hall.

138. History of American Journalism.—Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, $2. Five credits; spring. 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. Jones.

150. Editorial Writing.—Required of majors in journalism. Prerequisite, Jour. 101 and 120. Five credits; autumn. Jones.

160. Trade Journalism.—Prerequisite, Jour. 51. Lab. fee, $1. Five credits; winter. Jones.

*Not given in 1925-1926.

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. Spencer.

173. The Short Story.—Critical appreciation of the short story. Lab. fee, $2. Three credits; autumn. Spencer.

174, 175. Short Story Writing.—Prerequisite, Jour. 173. Lab. fee, $2 a quarter. Three credits a quarter; winter, spring. Spencer.

188. News Writing for Teachers.—Two credits a quarter; spring. Borah.

250. Research in Journalism.—Admission only by consent of the instructor. Three to five credits; autumn, winter, spring. Spencer.

LAW

Commerce Hall

Professors Condon, Lantz, Goodner, Bissett, Ayer; Lecturer O'Bryan

FIRST YEAR

All first year courses required.

100. Agency.—Wambaugh's Cases, 2nd Ed. Five credits; spring. Ayer.

103-104. Contracts.—Corbin's Cases. Five credits per quarter; autumn and winter. 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 and Procedure.—Keigwin's Cases on Common Law Pleading, and Sunderland's Cases on Code Pleading, and Washington Code and Cases. Five credits per qaurter; winter and spring. Goodner.

115. Property I.—Personal.—Bigelow's Cases, Vol. I. Three credits; autumn. Bissett.

116. Property II.—Real.—Bigelow's Cases, Vol. II. Five credits; spring. Bissett.

117-118. Torts.—Ames' and Smith's Cases, Pound's Ed. Four and two credits respectively; autumn and winter quarters. Ayer.

SECOND YEAR

125-126. Equity.—Case book to be selected. Three credits per quarter; autumn and winter. Ayer.

128. Damages.—Beale's Cases on Damages, supplemented by Washington Cases. Three credits; spring. O'Bryan.

129-130. Evidence.—Wigmore's Cases. Five and four credits, respectively; autumn and winter. Condon.

133. Insurance.—Vance's Cases. Three credits; spring. Lantz.

137. Negotiable Instruments.—Huffcut's Cases. Three credits; winter. Bissett.

134, 135. Legal Bibliography — 2 cr 7 W. S
Blandsley

138. Quasi-Contracts.—Woodruff's Cases. Three credits; spring. Lantz.

139-140. Property III.—Aigler's Cases, Vol. III. Autumn and winter quarters, four and two credits, respectively. Bissett.

142-143. Public Utilities.—Beale and Wyman's Cases. Three credits per quarter; winter and spring. Lantz.

146-147. Sales.—Woodward's Cases, 2nd Ed. Three credits per quarter; winter and spring. Ayer.

161. Procedure IV.—Procedure in civil actions in the Superior Court of Washington. Five hours. Three credits; autumn. Goodner.

179. Partnership.—Gilmore's Cases, supplemented by Washington Cases. Three credits; spring. O'Bryan.

THIRD YEAR

153. Proporety IV.—Kale's Cases, Vol. IV. Three credits; autumn. Bissett.

159. Wills.—Costigan's Cases. Three credits; autumn. Goodner.

163. Procedure VI.—Probate Proceedings, covering administration of estates, probate of wills, appointment of guardians, etc. Five hours. Four credits; winter. Goodner.

165. Admiralty.—Ames' Cases. Three credits; autumn. Lantz.

166. Office Practice.—Conveyancing and examination of abstracts, care of a law office generally, drawing wills and contracts, preparation of briefs and office accounts. Five credits; spring. Condon.

168. Conflict of Laws.—Lorenzen's Cases, 2nd Ed. Five credits; winter. Lantz.

170-171. Constitutional Law.—Hall's Cases. Three credits per quarter; autumn, winter. Bissett.

187-188. Private Corporations.—Canfield and Wormser's Cases. Three credits per quarter; autumn and winter. Goodner.

191. Property V.—Community.—Washington Statutes and selected cases on community property. Five credits; spring. Bissett.

196. Trusts.—Kenneson's Cases. Five credits; spring. Goodner.

200. Evidence.—Research course. Prerequisite, Law 129-130. Credits 2-5; autumn, winter, spring. Condon.

NOTE.—Fifteen hours or credits in each quarter are 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.—Lectures on the nature of beauty and its relations to usefulness, goodness, and truth by the instructor in charge. Demonstrations and discussions of the techniques and provinces of dancing, music, architecture, sculpture, painting, poetry, and drama by specialists from the faculties of Fine Arts and Liberal Arts. Five credits; repeated autumn, winter, and spring. Cory.

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

Professor Henry; Associate Professor Smith; Associate Lewis; Instructors Alfonso, Putnam, Hall

The following courses are open only to students registered in the Library School.

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 alphabeting. 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. One piece of independent bibliographic work is required of each student. 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 Organization 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. Lewis.

197. Library Administration and Library Literature.—Lectures, readings and discussions 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, Bell, Winger; Associate Professor Carpenter; Assistant Professors Gavett, Neikirk; Associates West, Cramlet, Taylor, Jerbert; Instructor Mullemeister.

The courses in mathematics are planned to meet the needs of three distinct professions: (1) The teaching of mathematics in the 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.

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. Brand, Biggerstaff.

2. Solid Geometry.—Prerequisite, one year of plane geometry. Five credits; autumn, winter. West, Brand.

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.

6. Analytical Geometry.—Especially for students in the College of Science. Prerequisite, Math. 1, 2, and 4. Five credits; spring. Winger, Mullemeister.

11-12. Theory of Investments.—Primarily for commerce students. First quarter: preliminary processes of algebra; interest and annuities; second quarter: annuities, amortization, capitalization and depreciation, sinking funds, etc. Life contingencies, applied to the computation of single and annual premiums. Prerequisite, one year algebra, one year geometry. Five credits a quarter; 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. Analytical Geometry.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 52. Four credits; each quarter.

54, 55, 56. Mathematics for Foresters and 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. West, Neikirk.

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.

FOR GRADUATES AND UNDERGRADUATES

101. Spherical Trigonometry.—Prerequisite, Math. 2 and 4. Two credits; autumn. Moritz.

102, 103. Solid Analytical Geometry.—Prerequisite, Math. 108 or 63. Two credits a quarter; winter, 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. 108 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.—Prerequisite, Math. 109 or 63. Three credits; autumn. Moritz.

152. Mortality Tables.—Prerequisite, Math. 109 or 63. Three credits; winter. Moritz.

153. Insurance.—Premiums and Reserves.—Prerequisite, Math. 109 or 63. Three credits; spring. Moritz.

**161, 162, 163. Analytical Mechanics.*

164, 165, 166. Mathematic 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.*—Prerequisite, Math. 109, 115, 119. Three credits; autumn quarter only. Carpenter.

**204, 205, 206. Modern Algebra.*

**207-208-209. Theory of Relativity.*

**211, 212, 213. Foundations of Mathematics.*

**214, 215, 216. Modern Analysis.*

**217, 218, 219. Elliptic and Theta Functions.*

**221, 222, 223. Higher Plane Curves.*

**224, 225, 226. Real Variables.*

227, 228, 229. Theory of Numbers.*—Prerequisite, Math. 109 or 63. Two credits a quarter; winter and spring only. Bell.

**231, 232, 233. Theory of Infinite Processes.*

**251, 252, 253. Mathematical Journal and Research Club.*

MECHANICAL ENGINEERING

Engineering Hall

Professors Eastwood, Wilson; Associate Professor Winslow; Assistant Professor McIntyre; Instructors McMinn, Edmonds

70. Elements of Gas Engines.—Arranged for the short course students in fisheries and others. 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.

82. Steam Engineering.—Various steam apparatus used in modern steam plants; construction, use, and reason for installation. Not open to freshmen. Prerequisite, drawing. Three credits; autumn, winter, or spring.
Eastwood, McMinn, Edmonds.

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, C.E. 13. Two credits a quarter; autumn, winter, spring. McIntyre, Edmonds, McMinn.

101, 102. Machine Design.—Advanced problems in machine design. Prerequisite, 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 standardization in modern industry. Personnel requirements and training. Analyzing job. Computing, checking, summarizing, explaining, applying, and perpetuating standards. Five credits; 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, Winslow.

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. Wilslow, 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, designs and tests. 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, winter. Eastwood.

184. Power Plants.—Design of steam power plants, involving their location, buildings, prime movers, and power transmission. Prerequisite, M.E. 123, 83. 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, winter, autumn. 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.

**Will be offered if a sufficient number of students elect the course.

**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. McMinn.

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.

211-212-213. Research.—Autumn, winter, spring. Three credits a quarter. Eastwood.

METALLURGY

Mines Laboratory

Professors Roberts, Daniels; Assistant Professor Corey; Instructor Wilten; Assistant Benjamin.

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.

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 two laboratory periods. Lab. fee, $10. Five credits; spring. Corey.

103. Metallurgical Fuels.—Analysis of fuels and consideration of the most effective utilization of the country's present supplies. 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, lixiviation 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.

**Will be offered if a sufficient number of students elect the course.

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. Lab. fee, $5. Three credits; winter. Corey.

165. Metallurgy Calculations.—Physical chemistry of the metallurgists, 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.

MILITARY SCIENCE AND TACTICS

Colonel Brady, Major Greene, Major Muhlenberg, Major Schrader, Major Gregory, Captain Underwood, Captain Adair, Captain Meredith, Lieut. Williams, Lieut. Hildebrand, Warrant Officer White, Warrant Officer Franke, Quartermaster Sergeant Wunderlich, Staff Sergeant Lang, Sergeants Compton, Bailey, Beckett, Maughan, 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 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 service, 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 Service.—Infantry drill, physical training, rifle marksmanship and ceremonies. 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.—Map reading, and military sketching, infantry weapons, musketry, military hygiene, sanitation and first aid, infantry drill 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 Service.—General air service subjects, air service 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.—Field engineering and leadership. One and two-thirds credits; autumn.

102. Advanced Infantry.—Accompanying weapons and leadership. One and two-thirds credits; winter.

103. Advanced Infantry.—Tactics and leadership. One and two-thirds credits; spring.

104. Advanced Infantry.—Field engineering: Elements of military field engineering with the study of trenches, obstacles, shelters, emplacements, observation posts, etc.; sand table instruction; field work. Leadership. Primarily for students majoring in military science. Three credits; autumn.

105. Advanced Infantry.—Accompanying weapons, including nomenclature, use, care and repair, mechanics of weapons, practical exercises with weapons and instruments, range and target exercises. Leadership. Primarily for students majoring in military science. Three credits; winter.

106. Advanced Infantry.—Tactics. Tactical principles governing the conduct of the platoon and smaller units in offensive and defensive combat, details of organization, equipment and tactical employment of companies. 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 8" howitzer, 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 sicence. Three credits; spring.

121. Advanced Air Service.—Communications, liaison, aeronautical engines and leadership. One and two-thirds credits; autumn.

122. Advanced Air Service.—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 Service.—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 Service.—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 Service.—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.—Military law, history and policy, and leadership. One and two-thirds credits; autumn.

152. Advanced Infantry.—Tactics and leadership. One and two-thirds credits; winter.

153. Advanced Infantry.—Tactics, company administration and leadership. One and two-thirds credits; spring.

154. Advanced Infantry.—Military law. Military history, military resources and military strength of the United States, the state of national

preparedness for war at critical periods, the cost of American wars, the traditional military policy of the United States. Leadership. Primarily for students majoring in military science. Three credits; autumn.

155. Advanced Infantry.—Tactics. Principles governing the organization, armament, equipment and conduct of the rifle, machine gun, howitzer and headquarters companies in offensive and defensive combat. Leadership. Primarily for students majoring in military science. Three credits; winter.

156. Advanced Infantry.—Tactics. Continuation of tactical instruction as given in M.S. 155. Company Administration: Lectures on practical administration of a company including interior economy and management, preparation of papers pertaining to administration. 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 Service.—Aerial gunnery, navigation, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits;

172. Advanced Air Service.—Bombardment equipment, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; winter.

173. Advanced Air Service.—Airplanes, air service organization, aeronautical engines and leadership. One and two-thirds credits; spring.

174. Advanced Air Service.—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 Service.—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 Service.—Airplanes: practical work on dismantling and assembling of airplanes, a study of the organization table of the Air Service. 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 Service.—Five credits; autumn, winter, spring.

MINING

Mines Laboratory

Professors Roberts, Daniels; Assistant Professor Corey; Lecturers Glenn, Powell; Instructor Wilten; Assistants Schoning, Koivula.

(See note on page 241.)

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.

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. Laboratory fee, $10. Five credits; spring. Roberts, Daniels.

162. Cost of Mining.—Mining methods and costs. Prerequisite, senior mining standing. Three recitations. Three credits; winter. Roberts.

***163. Mine Operation.*—Complete operations at typical mines, including mining, transportation and treatment of ore, disposal of products, company finances, and management. Illustrated by ores and products, maps and photographs, and other materials. Prerequisite, senior standing. Three recitations. Three credits; spring. Roberts.

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 three 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. 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. Hours and credits to be arranged. 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. Roberts, Daniels, Corey.

211, 212, 213. 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. Roberts, Corey, Daniels, 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 of uses of coal. Prerequisite, graduate standing. Hours and credits to be arranged. Daniels.

**Will be offered if a sufficient number of students elect the course.

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. Ceramics.
3. Electrometallurgy.

MUSIC

Music Building

Professor Glen; Associate Professors Rosen, Venino, Wood; Assistant Professors Dickey, Van Ogle; Associates Bogardus, L. Venino, Lynch, Mabon; Instructors Adams, Kirchner, Reeves; Assistants Oliver, Canfield, Allen.

1, 2, 3. 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. Two credits a quarter; autumn, winter, spring. Van Ogle, French.

4, 5, 6. History of Music.—Progress of musical development from the primitive period to the modern. Two credits a quarter; autumn, winter, spring. Reeves.

7, 8, 9. Sight Singing.—For beginners. Two credits a quarter; autumn, winter, spring. Dickey, Reeves.

‡*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.

14, 15, 16. Ear Training and Melody Writing.—Principles of melodic invention and training in hearing accurately; study in notation. Two credits a quarter; autumn, winter, spring. Dickey, Reeves.

14D. Ear Training.—Intensive course for qualified students. Equivalent to Mus. 14, 15, 16. Five credits a quarter; autumn. French.

17. Choral Study.—Part songs for men's voices. Candidates admitted only upon examination. Two credits; autumn. Glen.

18, 19, 20. Applied Music (Freshman).

68, 69, 70. Applied Music (Sophomore).

‡Only those who have successfully completed the work in course 11 will be eligible for registration in course 12.

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.
(*d*) *Violoncello.*—Kirchner, Canfield.
(*e*) *Organ.*—Lynch, Wood.
(*f*) *Band and Orchestra Instruments.*—Adams.

28, 29, 30. Ensemble Singing.—A choral course for women. Only advanced students will be admitted. One credit 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, 52, 53. Harmony.—Includes analysis and keyboard practice. Prerequisite, some knowledge of the piano, Music 9 and 16. Three credits a quarter; autumn, winter, spring. Wood, Reeves.

51D, 52D. Harmony.—Intensive course for qualified students. Equivalent to Mus. 51, 52, 53. Prerequisite, Mus. 16, or 14D. Five credits a quarter; winter and spring. French.

54, 55, 56. School Music.—For supervisors. Prerequisite, Mus. 7, 8, 9, and 14, 15, 16. Two credits a quarter; autumn, winter, spring. Dickey.

57, 58, 59. Advanced Sight Singing.—Study of larger choral works. For students with experience in sight singing. Two credits a quarter; autumn, winter, spring. Dickey.

**61, 62, 63. Advanced Ear Training.*

84, 85, 86. Advanced Voice Training.—Two credits a quarter; autumn, winter, spring. Bogardus.

103 in Winter 1925 for Miss Madeam

101, 102, 103. Advanced Harmony.—Prerequisite, Mus. 53. Three credits a quarter; autumn, winter, spring. Wood.

104, 105, 106. History of Music, Advanced.—Important periods and composers of modern music. Two credits a quarter; autumn, winter, spring. Van Ogle.

107, 108, 109. Counterpoint.—Regulation of two or more concurrent

*Not offered in 1925-1926.

melodies. Prerequisite, Mus. 53. Two credits a quarter; autumn, winter, spring. Wood.

110, 111, 112. Instrumental Form.—Analysis of many examples and simple exercises in composition. Prerequisite, Mus. 53. Two credits a quarter; 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. Dickey.

124, 125, 126. Chamber Music.—Advanced study of musical literature for stringed trios, quartets and quintets. One credit a qaurter; 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. Musical Appreciation.—Appreciative study of some modern composers and schools. Two credits a quarter; autumn, winter, spring. Van Ogle.

154, 155, 156. Music Education and Supervision.—For seniors and students of experience. High school, normal school and institute music. Prerequisite, Mus. 113, 114, and Educ. 160N. Two credits a quarter; autumn, winter, spring. Dickey.

157, 158, 159. Free Composition.—Choral work, piano idioms, and pieces in the smaller forms. Prerequisite, Mus. 103. Two credits a quarter; autumn, winter, spring. Wood.

161, 162, 163. Polyphonic Forms.—Free counterpoint applied to the invention, canon, fugue, etc. Analysis and composition. Prerequisite, Mus. 109. Two credits a quarter; autumn, winter, spring. Wood.

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. French.

**180, 181, 182. University Band (advanced).*

199. Senior Program.—Two credits; winter or spring.

Teachers' Courses in School Music and Piano Playing.—See Educ. 160N and 160X.

201, 202, 203 - adv Comp 2 cr each
204, 205, 206 Orchestration 2.1

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 1925-1926.

SCHOLARSHIPS

Scholarships in Piano Study.—Mr. A. F. Venino offers an annual scholarship to the candidate showing the greatest proficiency and promise in piano playing. The 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 will be held in the Music Building at 2 p.m. of the Saturday before registration day.

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 the teacher from the music faculty.

Applications must be sent to the Dean of the Fine Arts College before September 15 of each year.

PIANO

Freshman and Sophomore Years.—Major and minor scales and arpeggios; studies selected from Czerny, Cramer, Loeschorn, Kullak, Hiller and Krause; sonatos 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; Bordogni, 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, Rosen; Exercises Op. 45, Book I. Wohlfahrt; Book I, De Beriot; Exercises Op. 68.

Sophomore.—Scales, Hrimaly; Studies, Blumenstengal Op. 33, Mazas, Books I and II; Concerto, Accoly, Scene de Ballet, De Beriot.

Junior.—Scales, Book II, Baillot; Exercises, Books I and II, Schraedieck; Etudes, Kreutzer, Fiorillo, Rode, Rovelli; Concerto, 9 and 7, De Beriot; Concerto, 2 and 8, Spohr also one sonata by Handel.

Senior.—Scales, Rosen; Etudes, Dancla; Op. 73, 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.

Piano.—Mr. Venino, $22 a quarter; Mrs. Van Ogle, $22 a quarter; Mrs. Venino, $22 a quarter; Miss Allen, $15 a quarter.

Vocal Music.—Miss Mabon, $22 a quarter; Mrs. Bogardus, $22 a quarter.

Dean Glen will give individual instruction in singing and repertoire to a maximum number of ten students. The fee will be at the rate of $27 a quarter for one lesson weekly.

Violin.—Mr. Rosen, $22 a quarter, Mrs. Oliver, $15 a quarter.

Organ.—Mrs. Lynch, $22 a quarter; Mr. Wood, $22 a quarter.

Violoncello.—Mr. Kirchner, $22 a quarter; Miss Canfield, $15 a quarter.

Band and Orchestra Instruments.—Mr. Adams, $15 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.

Two hours daily, $5 a quarter.

Organ for practice; one hour daily, $12.50 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.

NURSING

Home Economics Hall

Elizabeth S. Soule

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.

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. Soule.

120. Public Health Nursing.—A non-technical course in public health. Deals with the modern public heath movement in its various phases. Prerequisite, Bact. 100. Three credits; spring. Soule.

Child Care and Development.—See Home Economics 111.

Health Education.—See Education 179.

ORIENTAL LIFE, HISTORY, LANGUAGES AND LITERATURE

Philosophy Hall

Professor Gowen, Lecturer Hall

The requirement of one year's work in ancient languages and literature may be satisfied by any two of courses 50, 51, and 52. Courses 114, 115, and 116 count for credit in the department of philosophy; and courses 40, 60, 120, and 121 in the department of business administration. Business administration students looking toward oriental trade are advised by their college to take courses 70 and 71, as well as 40, 60, 120, and 121 and History 21 and 22, 30 and 31. By special work under direction of the instructor upper division students may receive upper division credit in courses 40-80 inclusive, marked below with a dagger. Courses above 100 are intended for juniors, seniors, and graduates.

†*40. Contemporary Chinese Civilization.*—A survey of the formation, ideals, life and contemporary institutions of the Chinese people, with especial stress on cultural, commercial and political trends affecting the meeting of East and West. Prerequisite, Chinese History 21, 22. Five credits; spring. Hall.

†*50. Literature of India.*—Indian Literature from the Vedas to Rabindranath Tagore. Five credits; autumn. Gowen.

†*51. Literature of the Euphrates Valley and Egypt.*—A survey of literary discoveries in Sumerian, Babylonian, Assyrian and Egyptian archaeology. Five credits; winter. Gowen.

†*52. Literature of Persia.*—From the cuneiform inscriptions of the Achaemenians to the fifteenth century A.D. Five credits; spring. Gowen.

†*60. Contemporary Japanese Civilization.*—As under Chinese civilization. 40. Stress laid on the peculiar combination of Chinese and European culture which makes up modern Japan. Recommended to follow Japanese History 30 and be taken with 31. Five credits; spring. Hall.

†*70. Chinese Literature.*—A study of the literary beauties, wit and content of the classics, philosophy, poetry, fiction, drama and essays of the Chinese from B.C. 2000 to present. Three credits; autumn. Hall.

†*71. Japanese Literature.*—Stories, philosophy, poetry and essays of Japanese writers, in Chinese and native styles. Three credits; winter. Hall.

†*80. Semitic Literature.*—Survey of the content and literary significance of the Hebrew Scriptures. Three credits; spring. Gowen.

101-102-103. Hebrew, Aramaic or Arabic.—(According to demand.) Five credits; autumn, winter, spring. Gowen.

104-105-106. Sanscrit.—Grammar and readings in the Nala, Hitopadeca and Veda. Five credits; autumn, winter, spring. Gowen.

114. History of Religion I.—Primitive conceptions of religion: naturism and spiritism. Three credits; autumn. Gowen

115. History of Religion II.—The religions of the Far East. Three credits; winter. Gowen.

116. History of Religions III.—Judaism, Christianity, Muhammadanism. Three credits; spring. Gowen.

120. Problems of the Pacific I.—The political and diplomatic situations outstanding between America, Japan, China, The Philippines and the European nations on the Pacific. Two credits; autumn. Hall.

121. Problems of the Pacific II.—As above, specializing on economic, commercial and cultural situations. Two credits; winter. Hall.

IN HISTORY DEPARTMENT

History 21. *History of China I.*—From beginnings in the Upper Yellow river valley B.C. 3000 to the Manchu Dynasty, A.D. 1644. Five credits; autumn. Hall.

History 22. *History of China II.*—From 1644 to present with special emphasis on the Chinese Republic. Five credits; winter. Hall.

History 30. *History of Japan I.*—From the emergence from barbarism

†By special work under direction of instructor, upper division students may receive upper division credit.

and contact with Chinese culture of fifth century A.D. to the end of the Tokugawa Shogunate. Five credits; winter. Gowen.

History 31. *History of Japan II.*—From the Restoration to the present, with special attention to Japan's colonial expansion. Five credits; spring. Hall.

PAINTING, SCULPTURE AND DESIGN

Philosophy Hall

Associate Professor Isaacs; Associates Patterson, Worman, Storm, Lewis; Intsructors Edens, Rhodes, Foote

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. Perspetcive. Prerequisite for any subsequent course in drawing and painting. Lab. fee, $1. Three credits a quarter; autumn, winter, spring. Isaacs, Patterson.

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. Edens, Rhodes, Storm.

16, 17, 18. Art Appreciation.—Introductory course intended to give the student a familiarity with the nature of works of art. Lectures, illustrated by lantern slides, from the world's masterpieces. One credit a quarter; autumn, winter, spring. Isaacs.

53, 54, 55. Art Structure.—Principles of design applied in batik, tie and dye and wood-block printing. Prerequisite, 9, 10 11. Lab. fee, $2. Three credits a quarter; autumn, winter, spring. Storm.

56, 57, 58. Drawing and Painting.—Still life, and cast. Oil painting. Introduction to drawing from life. Prerequisite, 5, 6, 7. Lab. fee, $2. Three credits a quarter; autumn, winter, spring.

59, 60, 61. Household Design.—Designs for tiles, leaded glass, metal work, fixtures and embroidery. Prerequisite, 5, 6, 7, 9, 10, 11. Three credits a quarter; autumn, winter, spring. Foote.

65, 66, 67. Drawing and Painting.—Lab. fee. $2. Prerequisites, 5, 6, 7. Three credits; autumn, winter, spring. Isaacs.

72, 73, 74. Sculpture.—Elementary course in modeling in clay and wax. Construction of plaster moulds. Lab. fee, $3. Three credits a quarter; autumn, winter, spring. Lewis.

80, 81, 82. Furniture Design.—Lectures on the history of furniture with the execution of original design for furniture. Prerequisites, 9, 10, 11. Two credits a quarter; autumn, winter, spring. Foote.

101, 102. Public School Art.—Problems in representation, design, and industrial art. Prerequisites, 5, 6, 7, 53, 54, 55. Adapted to grade, junior high, and high school courses. Methods of presentation. Two credits a quarter; autumn and winter. Rhodes.

103, 104. Pottery.—Lab. fee, $2. Prerequisites, 9, 10, 11, 5, 6, 7. 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; autumn. Edens.

106. Art Structure.—Poster designing. Prerequisites, 9, 10, 11, and 5, 6, 7. Three credits; winter. Edens.

107, 108, 109. Portrait Painting.—Lab. fee, $3. Prerequisites, 56, 57, 58. Three credits a quarter; autumn, winter, spring. Patterson.

110, 111, 112. Interior Decorating.—Prerequisites, 9, 10, 11, 56, 57, 58. Three credits a quarter; autumn, winter, spring. Foote.

116, 117, 118. Illustration.—Book decoration. Prerequisites, 9, 10, 11, 56, 57, 58. Lab. fee, $3. Three credits a quarter; autumn, winter, spring. Storm.

122, 123, 124. Sculpture.—Lab. fee, $3. Prerequisites, 72, 73, 74. Three credits; autumn, winter, spring. Lewis.

**126, 127, 128. History of Painting.*

151, 152. Art Structure.—Wood block, linoleum printing and monotypes. Landscape and figure composition. 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, 53, 54, 55. Three credits; autumn. Edens.

158. Jewelry.—Lab. fee, $2. Prerequisite, 157. Three credits; winter. Edens.

***159. Jewelry.*—Prerequisite, 158. Three credits; winter. Edens.

160, 161, 162. Life.—Lab. fee, $3. Prerequisite, junior standing. Three credits a quarter; autumn, winter, spring. Isaacs.

163, 164, 165. Composition.—Pictorial composition in charcoal and oil painting. Prerequisite, junior standing. Three credits a quarter; autumn, winter, spring. Isaacs.

**166, 167, 168. Art Structure.*

169, 170, 171. Costume Design.—Prerequisites, 9, 10, 11. Two credits a quarter; autumn, winter, spring. Edens.

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, 56, 57, 58. Three credits a quarter; autumn, winter, spring. Isaacs, Patterson.

179, 180, 181. Costume Design.—Prerequisites, 171. Two credits; autumn, winter, spring. Edens.

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. Isaacs.

263, 264, 265. Composition.—The designing and execution of pictorial and decorative compositions. Lab. fee, $3. Three to five credits a quarter; autumn, winter, spring. Isaacs.

Teachers' Course in Methods in Teaching Art.—See Educ. 160P.

*Not offered in 1925-1926.
**Will be offered if a sufficient number of students elect the course.

PHARMACY AND PHARMACEUTICAL CHEMISTRY, PHARMACOLOGY, TOXICOLOGY, MATERIA MEDICA AND FOOD CHEMISTRY

Bagley Hall

Professor Johnson; Associate Professors Lynn, Langenhan; Lecturer Osseward; Instructors Goodrich, Burlage, 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. Burlage and assistants.

4. Commercial Pharmacy.—Lecture course, covering the commercial problems of the practical pharmacists. 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 winter quarters. Two lectures and two laboratory periods a week, 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. Langenhan 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 only to juniors and seniors. Laboratory fee according to credit and type of work. One to five credits; autumn, winter, spring.

195, 196, 197. Pharmaceutical Chemistry.—The pharmacy and chemistry of alkaloids, glocosides, 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.—Senior and graduate students may undertake original investigation in pharmacy, pharmaceutical chemistry, pharmacology, volatile oils and plant principles under the direction of an instructor. Laboratory fee according to credit and type of work. Credit to be arranged. Autumn, winter, spring. Lynn, Langenhan, Goodrich, Johnson.

PHILOSOPHY

Philosophy Hall

Professor Savery; Associate Professor Ducasse; Instructor Blake; 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, 3 or 5 is required of seniors in the College of Business Administration.

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.

1. Introduction to Philosophy.—Five credits; autumn, winter, spring. Savery, Ducasse, Blake.

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. Five credits; winter. Savery and assistants.

3. Introduction to Ethics.—Ethical principles and their application to the problems of life. Five credits; spring. Blake 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. Five credits; autumn, winter, spring. Ducasse.

101-102-103. History of Philosophy.—Ancient, medieval and modern. Three credits a quarter; autumn, winter, spring. Blake.

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 physical or biological sciences. 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 Languages and Literature. *114, 115, 116. History of Religion.*—Autumn quarter: Primitive conceptions of religion, the religions of Egypt and the Euphrates Valley. Winter quarter: Religions of the Far East. Spring quarter: Judaism, Muhammadanism, and Christianity. Three credits a quarter; autumn, winter, spring. (May be counted for credit in philosophy.) Gowen.

**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. Five credits; autumn. Ducasse.

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. Two credits a quarter; autumn, winter, spring. Blake.

191, 192, 193. Advanced Logic.—Some study of symbolic logic. Critical examination of a number of logical doctrines bearing on philosophical questions. Inductive method as applied to the investigation of philosophical problems, with illustrations. Prerequisite, Phil. 5. Two or three credits a quarter; autumn, winter, spring. (Graduate credit may be given for this course by special arrangement with the instructor.) Ducasse.

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.

**241, 242, 243. 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. Blake.

**247-248-249. Seminar.*—The Philosophy of Schopenhauer and Nietzsche.

251-252-253. Research in Philosophy.—One to six credits a quarter; autumn, winter, spring. Savery, Ducasse, Blake.

PHYSICAL EDUCATION AND HYGIENE FOR MEN

Gymnasium

Assistant Professor Arbuthnot, Director; 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.

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

*Not offered in 1925-1926.

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 in *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, icehockey, baseball, cross country, tennis, track, boxing, and wrestling. 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.

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. Arbuthnot.

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.—Two credits; spring. Hall.

115. Athletic Coaching: Organization and Administration.—Physical methods and tests, organization of departments. Two credits; spring. Arbuthnot.

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 crdits 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; Lecturer Irwin; Associates Anderson, Bloom; Instructors Aid, McGownd; Assistant Helmich

There are two kinds of courses in this department.

(1) Those required for graduation. All women, during the freshman year of college attendance are required to participate two hours a week in some form of healthful exercise; the sophomore year may be taken in the sophomore, junior or senior year. The kind of exercise is determined by the health examination. The course in Personal Hygiene is required of freshmen; the course in Principles of Nutrition is required of sophomores. Ten credits, six in healthful and recreational exercise, two in Hygiene and two in Principles of Nutrition, are required for graduation.

The policy of allowing the sophomore healthful exercise to be taken during the sophomore, junior or senior year, at the election of students, is a temporary one, adopted by the University on account of the congested conditions in the University gymnasium.

Women who do not take physical education during the sophomore year must obtain written notices of deferment from the head of the department and file these in the registrar's office.

(2) Those leading to a major in physical education in the College of Science, or in the School of Education. (Courses numbered above 100.)

(a) Students not majors may elect these courses.

Teachers well trained in all phases of physical education are in demand, the most frequent calls being for school supervisors and recreation leaders. Students interested in courses in recreation and community leadership should see announcement for School of Education.

Intramural Athletics.—Intramural contests, under supervision and control of the department, are conducted in baseball, hockey, tennis, basketball, archery, field events, volley ball, hiking, riding, quoits, dance drama, and golf. The Women's Athletic Association cooperates with the department in the conduct of these activities. All students are urged to enroll for at least one sport.

Uniforms.—A uniform, consisting of serge tunic, white blouse and black gymnasium shoes is required of all students, and may be purchased at the University Book Store. The cost is $11. No part of the uniform should be purchased before entering college.

Courses.—Courses 1-2-3 are open to freshmen. Hygiene (P.E. 4, 5, 6) is required of all freshmen. Courses 60 to 99 are open to sophomores who have had three quarters of freshman work. Principles of Nutrition, (P.E. 54-55-56) is required of all sophomores. Courses 100 to 200 are open to all students who have the prerequisites; these courses carry academic credit.

1, 2, 3. Healthful Activities.—Natural gymnastics, dancing, athletics. Two hours practice a week. One credit a quarter; autumn, winter, spring. Anderson, Helmich, Aid, McGownd, Bloom.

All freshmen should register in a section from A. to K. Reassignment will be made after examination.

Section A to K inclusive, Freshman Healthful Activities.

Section R, Freshman Limited Activities.

Section X and Y, Prescribed Activities.

Section AA to HH, inclusive, Freshman Corrective Gymnastics.

4, 5, 6. Hygiene—One hour of lecture. Two-thirds credit a quarter; autumn, winter, spring Irwin.

51, 52, 53. Sophomore Prescribed Activities.—One credit a quarter; autumn, winter, spring. Anderson.

54-55-56. Principles of Nutrition.—Food and nutrition as related to health. Required of all second year women. One lecture a week. Two-thirds of a credit; autumn, winter, spring. Bliss

57, 58, 59. Sophomore Correcitve Gymnastics.—Two hours of practice. One credit a quarter; autumn, winter, spring. Bloom.

61. Folk Dancing.—Two hours of practice. One credit a quarter; autumn, winter, spring. McGownd.

64. Hockey.—Two hours of practice. One credit; autumn Helmich.

65. Basketball.—Two hours of practice. One credit; winter. Anderson, Helmich.

67. Elementary Tennis.—Two hours of practice. One credit; autumn. spring. Helmich, Anderson.

69. Advanced Tennis.—Prerequisite, Phys. Educ. 67. Two hours practice One credit; spring. Anderson.

72. Rifle Shooting.—Two hours of practice. One credit a quarter; autmn, winter, spring.

75. Archery.—Two hours practice. One credit; autumn, spring. Aid.

81. Baseball.—Two hours practice. One credit; spring. Helmich.

82-83-84 Limited Healthful Activities.—For students for whom regular work is too strenuous. Two hours practice. One credit; autumn, winter, spring. McGownd.

87. Golf.—Two hours practice. Fee, $3 One credit; autumn, winter, spring. Jefferson.

88. Advanced Golf.—Prerequisite, Phys. Educ. 87. Fee, $3. One credit; winter, spring. Jefferson.

91, 92, 93. Natural Dancing.—Two hours practice. One credit; autumn, winter, spring. Aid.

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 and Physiology 54-55. One hour lecture and two hours practice. Three credits a quarter; autumn, winter. Aid.

103. Natural Gymnastics.—Drills and gymnastics based on natural technique. Methods of teaching. Use and classification. Prerequisite Phys. Educ. 101-102. One hour lecture and two hours practice. Three credits; spring. Anderson.

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 a week. Two credits a quarter; autumn, winter, spring. Gross.

111-112. Plays and Games.—Singing games, dramatic plays, graded games, elementary team games, and story telling; classification, value, and methods of teaching. One lecture and three hours practical work a week. Three credits a quarter; autumn, 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.

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 lectures and four hours practice. Prerequisites, Anat 101-102 and Physiology 54-55. Three credits a quarter; autumn, winter, spring. Bloom.

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 Instruction.—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, McGownd

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. Hockey and Soccer Coaching.—Methods of coaching hockey and soccer. Prerequisites, Psych. 1, and knowledge of and participation in hockey. One hour lecture and two hours practice. Three credits; autumn. Anderson.

169. Tennis and Archery Coaching.—Prerequisite, Psych. 1 and knowledge of and participation in both sports. Two hours lecture, two hours practice. Three credits; spring. Anderson, Aid.

170-171-172. Advanced Athletic Coaching.—Coaching in basketball, baseball. Students will take charge of classes in sports. Prerequisite, Psych. 1, Educ. 101 and knowledge of game. One hour lecture and two hours of practice. Two credits; autumn, winter, spring. Anderson.

174. Teachers' Course in Swimming.—Methods of teaching strokes, diving, life saving. Prerequisite, ability to swim at least two kinds of strokes. Y.W.C.A. pool. Lab fee, $2.50. One credit; autumn. Neely.

175. Advanced Course in Swimming.—The construction and hygiene of the pool. Methods of filtration, and general organization. Y.W.C.A. pool. Lab. fee, $2.50. Prerequisite, Phys. Educ. 174. One credit; winter. Neely.

179. Public Recreation.—Problems in civic and community recreation with practice in field houses and playfields. Prerequisites, Phys. Educ. 103, 106, 113. Three credits; winter. Gross.

180. Campcraft.—The philosophy of and practice in campcraft, including fire building, camp cooking, outdoor games, types of camp shelters, camp sanitation, hygiene of camp clothing, health of the camper. One week-end trip to the physical education lodge will be included. Two credits; spring. Gross.

Teachers' Course in Physical Education.—See Educ. 160R.

PHYSICS

Denny Hall

Professor Osborn; Associate Professors Brakel, Anderson; Instructors Utterbach and Eller; Demonstrator Higgs

NOTE.—Students may elect Phys. 1, 2, 3, or 97, 98, 99, without having had a full year of high school physics, by enrolling in Section H of the course desired. If they were conditioned in physics for admission to the University, such condition will be removed when they have received ten hours' credit in either of the above two groups. For the present there will be a section H for 97 in the autumn, for 98 in the winter, and for 99 in the spring only.

1-2. General Physics.—Courses 1-2 will satisfy the physical science requirement in the colleges of Liberal Arts and Science. Prerequisite, high school physics or enrollment in Section H of 1 and 2. Lab. fee, $2. Five credits a quarter; autumn, winter. Osborn, Eller, Utterbach, Anderson.

*Not offered in 1925-1926.

3. General Electricity.—Required of physics majors; of mathematics majors taking physics as a minor; and of all pre-medic students. Prerequisite, 1-2; (See Note.) Lab. fee, $2. Five credits; spring.
Osborn, Eller, Utterbach.

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 credits; spring. Higgs.

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, Utterbach.

98. Physics for Engineers.—Electricity. Prerequisite, Phys. 97. (See Note). Lab. fee, $2. Five credits; autumn, winter, spring.
Brakel, Anderson, Utterbach.

99. Physics for Engineers.—Light and Heat. Prerequisite, Phys. 97 (See Note). Lab. fee, $2. Five credits; autumn, winter, spring.
Brakel, Anderson, Utterbach.

101. Introduction to Modern Theories.—Prerequisite, Physics 3. Five credits; autumn. Anderson.

**102. Analytical Mechanics.*

**103. Heat*

105. Electricity.—Prerequisite, Phys. 3. Lab. fee, $2. Five credits; winter. Brakel.

**113. Acoustics and Illumination.*

114. Electrical Measurements.—For engineering students. Prerequisite, Phys. 97, 98, 99. Lab. fee, $4. Three credits; autumn, winter, spring.
Brakel.

115. Applications of Photography to Science Work.—Prerequisite, special permission. Lab. fee, $5. Three credits; winter. Higgs.

160. Physical Optics.—Prerequisite, Physics 20 hours. Lab. fee, $2. Five credits; spring. (Only one of the two courses, 160 and 170, will be offered.)
Osborn.

167, 168, 169. Special Problems.—Students are admitted after consultation with the instructor. Credit arranged; autumn, winter, spring.
Osborn, Brakel, Anderson.

170. Spectroscopy.—(See Note after 160.)

**175. High Temperature Thermometry.*

**190. Physics of AC and DC Circuits.*

COURSES FOR GRADUATES ONLY

200-201-202. Dynamics.—Two credits; autumn and winter; three credits, spring. Anderson.

**203-204. Theoretical Electricity.*

205. Vibratory Motion and Sound.—Lab. fee, $2. Three credits; winter. Osborn.

*Not offered in 1925-1926.

206. Advanced Optics.—Lab. fee, $2. Three credits; spring. Osborn.

**207-208. Modern Theories.*

**209. Thermodynamics.*

**210-211-212. Seminar.*

213-214-215. Research.

POLITICAL SCIENCE

Philosophy Hall

Professor Martin; Associate Professor George; Assistant Professor Laube; Instructor Cole; Teaching Fellow Bachman

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 upper division courses is five credits in Political Science 1. 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, Czechoslovakia, comparing them in regard to powers, forms of organization,

*Not offered in 1925-1926.

and functions. Brief discussion of political parties, elections, political ideas and foreign relations. Five credits; autumn, winter, spring.
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. Three credits; autumn. George.

52. Introduction to Public Law.—A detailed consideration of the relation of the state to the individual; constitutional guarantees; freedom of speech and of the press; fundamental concepts in constitutional, international, administrative and criminal law. Three 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. Three credits; spring. George.

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UPPER DIVISION COURSES

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. Elementary 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. Two credits; autumn. Cole.

119-120. 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. Two credits; winter, spring. Cole.

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. Martin.

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 judical agencies. Three credits; winter. Martin.

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. Martin.

125, 126. 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.

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. 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. Three credits; autumn. Cole.

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*. Three credits; winter. Cole.

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. Three credits; spring. Cole.

154. Public Finance.—Public expenditures, revenues, debts and financial administration, with particular attention given to taxation. Three credits; autumn. Laube.

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. Two credits; autumn. Laube.

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. Two credits; winter. Laube.

157. The Growth of Federalism.—History of federalism; the modern federal state; operation of the federal principle in the United States, Switzerland, Argentine, Brazil and the British Dominions. Two credits; spring. Laube.

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 government; present-day issues in municipal government. Three credits; autumn. Laube.

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. Three credits; winter. Laube.

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. Three credits; spring. Laube.

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: influence of Duguit and Lasky on political theory. Two credits; autumn. George.

221. Seminar in International Law and Diplomacy.—Special subject for investigation: the reparation question. 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. Cole.

261. Seminar in Local Government.—Special topic: administrative reorganization in the state of Washington. Two credits; spring. Laube.

PSYCHOLOGY

Philosophy Hall

Professor Smith; Associate Professor Guthrie; Instructor Griffith; Assistant Miss Wilkinson

Students in the College of Liberal Arts, as well as students in the College of Science, may major in psychology.

The Liberal Arts requirements are five credits in psychology.

For psychology as prerequisite to education, see announcement of department of education.

Majors in psychology may count five hours in Phil. 1, or in 101-102-103 toward satisfying their major requirement.

1. General Psychology.—Survey of the science as a whole. No prerequisites. Two lectures, two discussion sections, and one 2-hour laboratory a week. Fee, $1. Five credits; course repeated every quarter. Griffith, Smith, Guthrie.

101. Physiological Psychology.—Man's behavior viewed as a result of his neurological mechanism. Students who so desire will be offered an opportunity for individual work in dissection and microscopic study. Prerequisite, Psych. 1. Three credits; winter. Guthrie.

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; spring. Guthrie.

109. Mental Tests.—Training in applying tests for intelligence and for mental analysis. The principles of experimental procedure, methods of measurement, the preparation of tests and statistical treatment of results. Essential to work in clinical psychology. Prerequisite, ten credits in psychology. ~~Three~~ five credits; spring. Griffith.

111. History of Psychology.—Origin and development of psychology, beginning with the primitive conceptions of mind, and including a comprehensive view of the sources of scientific psychology. Prerequisite, Psych. 1. Two credits; autumn. Guthrie.

112. Modern Psychological Theory.—Criticism of psychological theories in the light of recent experimental findings. Prerequisite, Psych. 1. Three credits; spring. Guthrie.

114. Current Psychological Literature.—Reading and discussion in the direction of the student's particular interest, covering a wide range of subjects treated in recent journals and with the new developments in psychology. Prerequisite, Psych. 1. Two credits; winter. Guthrie.

116. Animal Behavior.—The mind of animals as shown by their behavior under natural conditions and in the laboratory. Prerequisite, Psych. 1. Three credits; autumn. Griffith.

118. Folk Psychology.—A psychological study of social human nature; language, custom, public opinion, morals, war, family, caste, nationalism, religion. Prerequisite, Psych. 1. Two credits; autumn. Guthrie.

121. Applied Psychology.—Psychology as applied to personal efficiency, vocational guidance, the measurement of vocational fitness, and scientific management. The significance of sex and individual differences in practical life. Each member of the class will organize his work around a problem of personal interest. Prerequisite, Psych. 1. Five credits; winter. Griffith.

124. Psychology of Learning.—The principles of learning and the transfer of training. Prerequisite, ten credits in psychology. Two credits; spring. Smith.

126. Abnormal Psychology.—The explanation of unusual behavior and the influence of the subconsicous mind upon conduct. Prerequisite, ten credits in psychology. Three credits; winter. Guthrie.

131. Child Psychology.—Mental development from infancy to adult age with the purpose of giving the student a scientific understanding of childhood. Prerequisite, Psych. 1. Three credits; autumn. Smith.

132. Psychology of Exceptional Children.—The nature and cause of mental defects and peculiarities of children, with special reference to methods of diagnosis and to physical pathology. Prerequisite, Psych. 1. Three credits; spring. Smith.

151, 152, 153. Undergraduate Research.—Prerequisites, Psych. 1 and 106. Three credits; each quarter. Smith, Guthrie, Griffith.

Seminar.—Open to all research students in the department. Weekly meetings.

COURSES FOR GRADUATES ONLY

Before a student registers for graduate courses his program of research must be approved by the department.

201, 202, 203. Graduate Research. Smith, Guthrie, Griffith.

ROMANIC LANGUAGES AND LITERATURE

Denny Hall

Professors Frein, Ober, Umphrey; Associate Professors Patzer, Goggio; Assistant Professors Helmlinge, De Vries, Sanjurjo; Associates Hamilton, Simpson, Cattelain; Instructor Whittlesey; Teaching Fellows Chesley, Johnson, Salandra, 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. Exceptional cases will be determined by the head of this department.

Students may not begin French 1 and Spanish 1, (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 and those who wish to be recommended to teach French shall be required to take courses 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 115. 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. Prerequisite 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 111, 112, 113. 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 71, 72, 73; those of the upper division for courses 111, 112, 113. 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, Hamilton, Whittlesey.

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.

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. The French Novel.*

124, 125, 126. The Short Story.—Conducted in French. Development of the French short story from its beginnings in Old French to modern times. Masterpieces of Daudet, Maupassant, Bazin and others will be read and discussed. Prerequisite, French 6 and 9, 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. Three credits a quarter; autumn, winter, spring. Helmlinge.

141, 142, 143. The French Drama.—Lectures and assigned reading. Course conducted in French. Prerequisites, French 6 and 9 or equivalent. Three credits a quarter; autumn, winter, spring. Patzer.

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.

158, 159. Advanced Syntax.—French Syntax from the teacher's standpoint. These courses are prerequisite to the teacher's course. Prerequisite, French 103. Two credits a quarter; autumn, winter. Frein.

**161, 162, 163. Eighteenth Century Literature.*

171, 172, 173. Seventeenth Century Literature.—Course conducted in French. Survey of the entire century, but especial emphasis upon the dramas of Corneille, Moliere and Racine. Assigned outside reading, and

*Not offered in 1925-1926.

reports. Prerequisite, French 6 and 9 or equivalent. Two credits a quarter; autumn, winter, spring. Patzer.

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.—Exposition of the several theories by which French critics have tested literature. Prerequisites, a good knowledge of French or English literature. Course given in English. Two credits a quarter; autumn, winter, spring. (May be counted for graduate credits in English.) DeVries.

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 summary 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.

Teachers' Course in French.—See Educ. 160T.

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 Italian 1 until 2 has been completed. Five credits a quarter; autumn, winter, spring. Goggio.

**111, 112, 113. Modern Italian Literature.*

**118, 119, 120. Survey of Italian Literature.*

121, 122, 123. The Italian Novel.—History of the novel from its beginning. Those able to read modern Italian can read the oldest novels also. Influence of the Italian novel upon French and English literature. Prerequisite, Italian 3; three to five credits a quarter; autumn, winter, spring. Goggio.

181, 182. Dante.—The Divine Comedy of Dante will be read and studied to bring out the character of the imaginative and philosophical ideas contained in it, and the relations of these ideas to medieval thought. Knowledge of Italian not necessary. Two credits a quarter; autumn and winter. Goggio.

184. Renaissance Literature of Italy.—Stress will be laid on the works of Petrarch and Boccaccio especially, and on those of Machiavelli, Castiglione, Ariosto, Cellini, and Tasso. Lectures in English and collateral reading. Knowledge of Italian not necessary. Two credits; spring. Goggio.

*Not offered in 1925-1926.

III. SPANISH

Requirements of the department: Span. 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 prerequisites.

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 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. Sanjurjo.

**104, 105, 106. Advanced Reading.*

118, 119, 120. Survey of Spanish Literature.—Selected texts, collateral reading, lectures. Prerequisite, Span. 6. Two credits a quarter; autumn, winter, spring. Umphrey.

121, 122, 123. Spanish Novel.—Lectures in Spanish on the history of the Spanish novel. Assigned outside reading and reports. Prerequisites, Span. 6 and 9. Two credits a quarter; autumn, winter, spring. Sanjurjo.

**131, 132, 133. Lyric Poetry.*

**141, 142, 143. 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. 6 and 9. Three credits a quarter; autumn, winter, spring. Umphrey.

Teacher's 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.

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.

*Not offered in 1925-1926.

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 in connection with a survey of the Norwegian-Danish literature. Prerequisite, ability to read easy Norwegian-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.

**40, 41, 42. Great Scandinavian Writers in English Translation.*

103, 104, 105. Recent Swedish Writers.—Representative writers of the nineteenth and twentieth centuries, including Strindberg, Fröding, Selma Lagerlöf. 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, Hamsun, Bojer. 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 principle writers of recent Scandinavian literature will be read. Lectures, reports and discussion. May be entered at the beginning of any quarter. Two credits; autumn, winter, spring. Vickner.

COURSES FOR GRADUATES ONLY

**201-202. Old Icelandic.*

*Not offered in 1925-1926.

**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

Professor Woolston; Associate Professor McKenzie; Associate Miss Johnson; Lecturer Bain; Instructor Lundberg

Sociology treats of the development, organization and functions 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 to 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 supplementary 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.

The following basic and supplementary courses are particularly recommended: Anthropology 51; Economics 61; English 141, 142, 143; History 105, 106, 107; Math. 13; Philosophy 2; Psychology 121; Zoology 16, 17.

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 throughout, 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, 131.*

Further work is arranged along these lines:

(1) Social Problems and Methods of Reconstruction offer prevocational instruction leading to two general lines of social work, for which the following courses are especially recommended:

A. Case Work.—Courses 56 or 57, 153, 154, 157, 160 or 180, 171-172-173, 191-192-193.

B. Community Organization.—Courses 58, 62, 63, 160, 161, 162, 180.

(2) Social Theory and Methods of Investigation offer preliminary training and background for vocational use as follows:

A. Teachers of Social Science.—Courses 150, 151, 152, 194, 195, 196.

B. Social Investigation.—Courses 130, 131, 132, 180, 181, 182.

For a major in sociology 36 credits are required. 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 head 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 at work, practical problems and methods of solution. Required of all students in the department. Five credits; autumn, winter, spring. Woolston.

55. Human Ecology.—Geographic and economic factors which determine the location and growth of communities. Types of communities, trade and market zones, significance of changing forms of transportation and communication, population selection and composition. Community structure; distribution and segregation of utilities and inhabitants. A background for the study of community problems. Five credits; autumn. McKenzie.

56. The Family.—Historical development of the family. Problems of American family life and programs for family welfare. Three credits; autumn. Johnson.

57. Child Welfare.—Rights of childhood to health, education, recreation and protection and of measures now in use to secure them. Three credits; winter. Johnson.

58. Neighborhood Resources.—Programs offered through schools, churches, clubs, settlements, state, national, public and private agencies that are available to neighborhoods in preventing and meeting their social problems. Three credits; spring. Johnson.

62. Public Recreation.—Organization of indoor and outdoor amusements; public morality and the use of leisure. Three credits; spring. McKenzie.

63. Community Organization.—Evolution of informal and formal organization of life in primary and secondary communities. Personal and social forces determining community policy. Neighborhood and institutional disorganization. Case studies of conscious attempts at reorganization. Should be preceded by Soc. 55. Five credits; ~~winter~~ spring, McKenzie.

70. Demography.—A study of the composition and movements of population; vital rates and tendencies. Five credits; autumn.

71. Immigration.—A study of the history and character of population movements; conquest, colonization and infiltration, and their effects upon peoples. Five credits; winter.

72. Race Contacts.—The effects of interplay between ethnic groups. A study of the amalgamation, assimilation, hostility and cooperation among mixed peoples. Five credits; spring.

***103. Problems of Maladjustment.*

105. Industrial Groups.—Survey of the conditions making for disharmonies of relationship between management and the worker. Case studies

**Offered in extension as a correspondence course.

of social and individual experiments in industrial reorganization. Five credits; autumn. McKenzie.

130. Social Surveys.—Methods of planning, conducting, and presenting results of investigations of communities and institutions. Critical consideration of current methods. Lectures, problems, field work. Five credits; autumn. Lundberg.

131. Social Statistics.—Methods and sources for quantitative investigation, as applied to ethnography, demography, vital statistics, social maladjustment, and their related fields. Five credits; winter. Lundberg.

132. Social Aspects of Publicity.—Technique of preparing and exhibiting sociological data pertaining to community problems. Publicity devices, exhibits, and campaigns. Five credits; spring. Lundberg.

150. General Sociology.—Major concepts of sociology and the scientific point of view in dealing with social phenomena. Five credits; autumn. (This course open to upper division students without course 1, by permission.) Bain.

151. Social Conflict.—Meaning, causes, types and significance of social conflict. Analysis of conflict situations. Five credits; winter. Bain.

152. Social Control.—Technique of corporate action—meaning, process and agencies of social control. Five credits; spring. Bain.

153. Problems of Poverty.—History of poverty and relief. Individual and social causes underlying destitution. Modern methods of approach to the 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 and programs. Three credits; spring. Lundberg.

156. Criminology.—Social, economic, and hereditary causes of crime; various theories and plans of prison reform; the relations of prisons and criminals to society. Five credits; spring. McKenzie.

157. Social Pathology.—The social factors involved and the methods of dealing with physical defectiveness, feeble-mindedness, insanity, narcotics, alcoholism, prostitution, vagrancy. Five credits; winter. McKenzie.

158. Personality Problems.—Survey of the literature on personality: case studies of personality problems. Two credits; spring. McKenzie.

160, 161, 162.—Relief, Reform, Reconstruction.—A summary of current programs of social betterment with critical estimate of their value for progress. Three credits; autumn, winter, spring. Woolston.

171-172-173. Social Work Practice I.—Supervised field work with local social agencies. Twelve hours field work, two hours class. Permission of instructor required for admission. Five credits; autumn, winter, spring. Johnson.

180, 181, 182. Group Behavior.—Introduction to social psychology; local and national traits. Five credits a quarter; autumn, winter, spring. Woolston.

191-192-193. Social Work Practice II.—Advanced field work. Twelve hours field work; two hours class. Prerequisite, 171-172-173, or equivalent. Five credits; autumn, winter, spring. Johnson.

194. Early Social Thought—Primitive times to St. Augustine. Social thought in China, Japan, India, Mesopotamia (Palestine and Persia), Egypt, Greece, Rome, Peru, and Mexico. Three credits; autumn. Bain.

195. Middle Social Thought.—Fall of Rome to Spencer. Social thought during the Dark Ages, Renaissance, Reformation, Revolution and Post-Darwinian periods. Three credits; winter. Bain.

196. Recent Social Thought.—Since Spencer. Particular attention will be given to the social theories of men now living in England, America, France, Germany and Russia, the approach being conceptual, instead of chronological as in 194 and 195. Three credits; spring. Bain.

COURSES FOR GRADUATES ONLY

207-208-209. Community Research.—Original investigation of special community problems. Prerequisite, graduate standing. Two credits a quarter; autumn, winter, spring. McKenzie.

221-222-223. Seminar.—The purpose is to train in methods of original research and investigation. Two credits; autumn, winter, spring. Woolston.

ZOOLOGY

Science Hall

Professor Kincaid; Associate Professor Guberlet; Assistant Professors E. V. Smith, Miller

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, Miller 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 development 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.

20 Service course for nurses I Cr Fall & Spring

**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. *Offered 1924-25 and alternate years.* 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. *Offered 1925-1926 and alternate years.* 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.

*Not offered in 1925-1926.

108. Limnology.—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. Kincaid.

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, $2. Five credits a quarter; autumn, winter. *Offered 1924-1925 and alternate years.* 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. *Offered 1925-1926 and alternate years.* 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. Kincaid, Smith, Guberlet, Miller.

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. Kincaid, Smith, Miller.

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 body, with special emphasis on metabolism, and the nervous and vascular systems. Lab. fee, $2. Five credits; winter, spring. Smith.

54-55. Physiology.—Adapted to meet the need of students expecting to teach the subject in high school. Required of students majoring in physical education; recommended for students in dietetics and in sanitary science. Lab. fee, $3.50. Five credits; autumn, winter. 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; spring. 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. 2 or 4, Chem. 23 and Physics 3. Lab. fee, $4. Five credits; autumn, winter, spring. Smith.

*Not offered in 1925-1926.
**Will be offered if a sufficient number of students elect the course.

SUMMER QUARTER

FREDERICK E. BOLTON, Ph.D. ..... Director

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 six weeks. In 1926 this will begin June 14 and end July 23. The laboratories, libraries and museum 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 1926 will take place on Tuesday, June 15. Students expecting to be in attendance during the last six weeks only may register on or before Friday, July 23. Students should go first to Administration Hall, where notices will be posted giving the order of procedure in registration.

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 director 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 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 19 hours for 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 summr quarter and to the public.

Master's Degrees Through Summer Quarters.—At each succeeding summer quarter a larger 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.

Correspondence Courses.—The University has established correspondence 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 degree. 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 lines of business organization, 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 Editorial Secretary, University of Washington. For other information address Frederick E. Bolton, Director 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 500. It is between Bellingham and Victoria, 30 miles from the former and 20 from the latter, in a direct line. The old Station site is about a quarter of a mile from the town, the new about a mile. 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 and peculiarly pocketed walls. In the sandstone are occasional beds of fossils, notably on the Sucia Islands. On Waldron Island and the Sucia Islands the sandstone is being 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 of 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 betwen the islands the tides rush at times 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 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 over 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 old site consists of 3 or 4 acres southeast of the town; the new site of 485 acres north of the town. Both have fresh water piped in, but the new one has no salt water thus far; it is only about 10 feet above high tide, however.

The buildings on the old ground are a zoological laboratory about 30x60 feet, 2 stories and attic, just above high tide; and a combination kitchen, dining room, library and botanical laboratory. The latter is used for storage. Each building also contains a number of research rooms. Two new laboratory buildings have been erected on the new grounds. They are fireproof, one-story structures, 24x55 feet, with cement floors. Each contains one laboratory, one research room, one store room, and one locker room. A new dining room and kitchen was built in 1924.

Apparatus.—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 stock room. It is the aim to have in the stock room the things ordinarily called for. Unusual things cannot be supplied. Those wishing special apparatus should write the director. Rowboats are on hand for general use. It is best for research workers to bring their own microscopes.

The Station owns its own trawling boat, the gift of Robert Moran, of Rosario, Washington.

Supply Department.—A supply department has been established for the purpose of supplying museums and schools with zoological and botanical material for their exhibits or classes. A price list will be furnished if requested from the Station. Those who attend may have a reasonable amount of material for their own laboratories put up at very nearly cost. This will permit scientists to put their whole time on class work or investigation. The collection of material by private individuals cannot be permitted. Scientists are urged to cooperate with the Station in its endeavor to earn part of its running expenses through its supply department.

Lectures.—General lectures by the Station staff or by visitors are given as the occasion arises, in the lecture hall in camp, in a hall in the village of Friday Harbor, or about campfires on the beach.

Registration.—Experience has shown that it is wiser to register for one course only. Six weeks is a very short time to give to any course, even though one's whole time be put on the work. 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 one semester-credit or one and one-half quarter-credits per week. For less work fewer credits may be given. 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.—For one person for six weeks the cost is about as follows:

Tuition fee	$12.00
Laboratory fee	5.00
Tent, two or more per tent	4.50
Board (estimate)	33.00
Stockroom, breakages, etc., (estimate)	2.00
Books (estimate)	2.00
Incidentals (estimate)	6.50
Total	$65.00

The tuition goes toward paying the running expenses; the laboratory fee is for the maintenance of the equipment as scopes, instruments, etc.

For persons occupying the research rooms the total station fee is $50, covering tuition and laboratory fees.

Tents.—These 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, mattresses, lamp, camp chair, bucket, wash basin, and drinking cups. During the time before and after the session the rental is $1 a week. and the laboratory and boat fee is $1. 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. The whole lodging system is merely self-supporting over a term of years. A deposit of $4.50 reserves a tent for the 6 weeks. The tent sites are not equally desirable; and sometimes the demand exceeds the supply, but there has always been room in the village.

Meals.—These are served in the dining hall at $5.50 a week. The service is merely self-supporting over a term of years, and as nearly cooperative as the conditions permit.

For bulletin of the Puget Sound Biological Station address the Editorial Secretary, University of Washington. For other information address T.C. Frye, Director of the Puget Sound Biological Station.

THE UNIVERSITY EXTENSION SERVICE

OFFICERS OF ADMINISTRATION AND INSTRUCTION

Henry Suzzallo, Ph.D. (Columbia), LL.D. (California).....*President of the University*
John Thomas Condon, LL.M. (Northwestern).....*Dean of Faculties*
Alexander C. Roberts, Ph.D. (Washington).....*Director of the Extension Service*

THE FACULTY, 1925-1926

The Extension faculty is composed of members of the general faculty who give extension courses and of the following instructors on the Extension staff:

William Bennett Henderson, A.B., (Princeton), LL.M. (George Washington), Lecturer on Business Administration.
Emuel Jacob Foreman.....*Lecturer on Water Transportation*
Alletta Maria Gillette, A.B., (Smith), A.M. (Washington).....*Instructor in English*
H. Dealy Dvorak, A.M. (Clark), Ph.D. (Brown).....*Instructor in Education*
Maude Parson, A.B., (Washington).....*Associate in Public Health Nursing*
R. M. Rutledge, B.A.....*Associate in Business Administration*
Elaine Swenson, B.A.....*Associate 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.....*Assistant*

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 ten 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 1925-1926 the following activities:

1. Evening Campus Classes
2. Off Campus Classes
3. Home Study
4. Graduate Medical Lectures
5. Graduate Nurses' Institute
6. Firland School for Nurses
7. Navigation School

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 towards 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 is worth all the time and money that it costs if considered from the standpoint of its value in mental training, 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 two hundred fifty 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 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.—Anthropology, astronomy, botany, classical languages and literature, dramatic art, economics and business administration, education, English language and literature, geology, Germanic languages and literature, history, home economics, journalism, mathematics, music, navigation, 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 ninth Graduate Medical Lectures were held July 20 to 24 inclusive, 1925. The lecturers were Peter Bassoe, professor of neurology, Rush Medical College, Chicago; John E. Clark, professor of obstetrics and gynecology, University of Pennsylvania; Vilray P. Blair, professor of surgery, Washington University, St. Louis, Mo.; Lewellys F. Barker, professor of medicine, Johns Hopkins University, Medical School, Baltimore, Maryland.

FIRLAND SCHOOL FOR NURSES

In cooperation with the authorities of the Firland sanitorium, the School for Graduate Nurses in 1925 has enrolled from 25 to 30 students in each of the classes offered through the Extension Service. A two-year curriculum covering 20 credits of advanced University work is offered.

GRADUATE NURSES' INSTITUTE

In cooperation with the authorities of the Firland sanitorium, the School tion, the Washington State Public Health Nurses' Association, the State League of Nursing Education and the King County Graduate Nurses' Association, the Extension Service conducted the second Graduate Nurses' Institute, July 13 to 18, 1925. The faculty consisted of Mary C. Wheeler, formerly superintendent of nurses at the Illinois Training School, Chicago; Cecelia Evans, Director of Nurses for the Wisconsin State Board of Health; Elnora E. Thomson, director of the Far Western Extension Office, American Child Health Association; Professor Edmond Meany, Professor F. E. Osborn, Professor H. E. Cory, Professor A. C. Roberts, Professor Walter Isaacs of the University of Washington faculty.

HYGIENE OF MATERNITY AND INFANCY

The 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 400 have enrolled during the year 1925.

OFFICE OF THE EDITORIAL SECRETARY

Matthew O'Connor, A.B. ..... *Editorial Secretary*
Harriett Westmoreland ..... *Assistant*

It is the purpose of this office to inform the public as to the progress of education, science and research at the University, and as to the services performed by the institution for the commonwealth; to scrutinize the daily events of the campus for facts of interest to the public as a whole, and to make them available to the newspapers of the state. The editorial secretary will be pleased to cooperate with publicists and editors who desire information regarding the University or any of its specialized departments.

All official publications of the University of Washington are issued under the direction of the editorial secretary. 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.

Botany.—Vol. 1, No. 1. Production of Root Hairs in Water, by Ethel M. Bardell.

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.

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 Katharine Van Winkle Palmer. No. 4. Foraminifera from the Eocene of Cowlitz River, Lewis County, Washington. by Dallas Hanna and Marcus Hanna.

Language and Literature.—Vol. 1. The Poems of Henry Howard, Earl of Surrey, by Frederick Morgan Padelford. Vol. 2. Spencer's Use of Ariosto for Allegory, by Susannah Jane McMurphy. Vol. 2, No. 2. Thomas Dekker: A Study in Economic and Social Backgrounds, by Kate L. Gregg.

The Publications in Language and Literature include studies in the various languages and literatures, ancient and modern, represented at the University. The series replaces and absorbs The Publications in English, of which the following volumes have appeared:

Vol. 1. Uno Linderlof's Elements of the History of the English Language, translated by Robert Max Garrett. Vol. 2. The Political and Ecclesiastical Allegory of the First Book of the Faerie Queen, by Frederick Morgan Padelford. Vol. 3. Johannes Steenstrup's The Medieval Popular Ballad, translated by Edward Godfrey Cox. Vol. 4. The Pearl: An Interpretation, by Robert Max Garrett.

Mathematics.—Vol. 1, No. 1. An Arithmetical Theory of Certain Numerical Functions, by Eric Temple Bell. No. 2. Cyclic-Harmonic Curves: A Study in Polar Coordinates, by Robert E. Moritz.

The Social Sciences.—Vol. 1, No. 1. Studies in Matriculation Statistics, Intelligence Ratings and Scholarship Records at the University of Washington, by Alexander Crippen Roberts. No. 2. Causation and the Types of Necessity, by Curt John Ducasse. Vol. 2, No. 1. Tiberius Caesar and the Roman Constitution, by Olive Kuntz.

The University of Washington Engineering Experiment Station Series as follows:

No. 1. Creosoted Wood Stave Pipe and Its Effect Upon Water for Domestic and Irrigational Uses. (Bureau of Industrial Research.) No. 2. An Investigation of the Iron Ore Resources of the Northwest, by William Harrison Whittier. (Bureau of Industrial Research.) No. 3. An Industrial Survey of Seattle, by Curtis C. Aller. (Out of print.) (Bu. Ind. Res.) No. 4. A Summary of Mining and Metalliferous Mineral Resources in the State of Washington with Bibliography, by Arthur Homer Fischer. No. 5. Electrometallurgical and Electrochemical Industry in the State of Washington, by Charles Denham Grier. No. 6. Ornamental Concrete Lamp Posts, by Carl Edward Magnusson. No. 7. Multiplex Radio Telegraphy and Telephony, by F. M. Ryan, J. R. Tolmie, R. O. Bach. No. 8. Voltage Wave Analysis with Indicating Instruments, by Leslie Forrest Curtis. No. 9. The Coking Industry of the Pacific Northwest, by Joseph Daniels. No. 10. An Investigation of Compressed Spruce Pulleys, by George Samuel Wilson. No. 11. The Theory of Linear-Sinoidal Oscillations, by Henry Godfrey Cordes. No. 12. Motor Truck Logging Methods, by Frederick Malcolm Knapp. No. 13. Tensions in Track Cables and Logging Skylines, by Samuel Herbert Anderson. No. 14. Current Suppression by Means of Parallel Resonance, by Henry Godfrey

Cordes. No. 15. Electric Heating of Residences, Part I, by Edgar Allan Loew. No. 16. Sewage Disposal for Suburban Homes and for Isolated Institutions, by William Franklin Allison. No. 17. Transmission Line Design, Part I. Mechanical Features, by Frederick Kurt Kirsten. No. 18. The Clays and Shales of Washington, by Hewitt Wilson. No. 19. The Chemical Utilization of Wood in Washington, by Henry Kreitzer Benson, Thomas Gordon Thompson and George Samuel Wilson. No. 20. Electric Heating of Residences, Part II, by Edgar Allan Loew. No. 21. Experimental Data on Relative Cost of Gas and Electricity for Cooking, by Martha Estella Dresslar. No. 22. An Analysis of the Weir Coefficient for Suppressed Weirs, by Charles William Harris. No. 23. The Electristatic Electromagnetic Conversion Factor, by Loyal Vivian Bewley. No. 24. Characteristic Surfaces of Thermionic Valves, by Jack Roderick Tolmie. No. 25. Development of Influence Lines as Applied to Statically Indeterminate Airplane Beams, by Robert James Minshall and Frederick Burt Farquharson. No. 26. Hydro-Electric Power in Washington, Part I. A Reconnaissance Survey, by Carl Edward Magnusson. No. 27. A Comparative Test of the Flow of Water in 8" Concrete and Vitrified Clay Sewer Pipe, by Elgin Roscoe Wilcox. No. 28. A Study of Coal Washing Problems of the Pacific Northwest, by Earl Renwick McMillan and Byron Matthew Bird. No. 29. Transmission Line Design, Part II, Mechanical Design of Spans, By George Sherman Smith. No. 30. Oscillographic Determination of the Thermionic Triode Static Characteristics, by Albert Kalin. No. 31. Lowering the Cost of Concrete in the Pacific Northwest, By Ira Leonard Collier. No. 32. Transmission Line Design, Part II, Electrical Features. A Line of Maximum Economy, by Frederick Kurt Kirsten and Edgar Allen Loew.

The periodical publications include:

The Washington Historical Quarterly.

The Washington Newspaper (published each month for the newspaper profession of the state).

The University of Washington Bulletin, General Series, including the bulletins of the various colleges and schools, the General Catalogue, the Summer Quarter Bulletin, and the University Directory, each of which is published annually.

A SELECTED BIBLIOGRAPHY OF FACULTY PUBLICATIONS

April 1, 1924 to April 1, 1925

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Wood-Boring Mollusks from the Hawaiian, Samoan, and Philippine Islands.—University of California Publications in Zoology, Vol. 26, No. 7. May, 1924.

Wood-Boring Crustacea from Hawaii and Samoa.—University of California Publications in Zoology, Vol. 26, No. 8. May, 1924.

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NOTE: Publications dated prior to April 1, 1924 were not included in previous lists as the journals had not yet appeared.

DEGREES

Degrees Conferred June 16, 1924

BACHELOR DEGREES

College of Liberal Arts

BACHELOR OF ARTS

Allan, Helen Quinton
Alway, Harrison Grant[A]
Anderson, Philena Mary[A]
Argall, Margaret Crystal
Bagwill, John
Bakeman, Frances Louise[A]
Bancroft, Cecyl Le Moine
Battle, William Feimster Tucker
Bazzett, Marian Spalding
Best, Erle Clifton
Bingham, Blanche Irene
Bishop, Dorothy Lynwood
Black, Mary Catherine[M]
Boggs, Thelma Viola
Booman, F. Albert[A]
Borah, Juanita Frederick
(*magna cum laude*)
Boyer, Margaret
Broder, Percival Claude[M]
Brown, Edda Virginia[A]
Brown, Grace Virginia[A]
Brown, Mary Catherine
Brown, Minnie (*cum laude*)
Brown, Sarah H.[A]
Bryan, James Wesley Jr.
Buchanan, Lorna May
Burnett, Charles Hugh
Butcher, Owen[A]
Butt, Ferdinand Hinckley[A]
Calvin, John T.[M]
Campbell, Archibald[A]
Campbell, Clyde Gordon
Carey, Vincent Walter
Carlson, Gladys May
(*cum laude*)
Carlson, Julia Carolyn[A]
Carman, Helen Braden
Carmichael, Ruth Pearce[A]
Carroll, Virginia Wood
Chadbourne, Charles Angus
Chalaire, Donald Alcide[A] (*cum laude*)
Christianson, Victor Childs
Clark, Helen Davis
Clifton, Mary Evelyn
Cohen, Fannie L.[D]
Creamer, Evelyn Marion
Crouley, Beatrice Marguerite
Cutting, Julia Winifred[W]
Dahl, Bernice Irene[A]
Daigh, Margaret Levina
Davis, Herbert Frederick
Davis, Kathryn Schofield
Deaderick, Kelly Dent
Devers, Izora De Ette
Dickinson, Charlotte Louise
Dinsmore, Stephen Smith[D]
Dodd, Hamlet Porch
Dolan, Irene Lenore
Dolan, Margaret Mary
Durham, Irene Somerville[D]
(*cum laude*)
Easton, Inez
Elde, Dagney Marie
Elford, Marian Alberta[A]
Elrey, Florence M.
Elyea, Winifred[A]
Ethel, Garland Oral[A]
Fairservice, Hazel
Falk, Winona Moore[A]
Faubert, Florentine Virginia
(*cum laude*)
Finlay, Maxine (*cum laude*)
Flury, Faustina
Ford, Katherine Dyer
Ford, Laura Joy
Forrest, Stewart Robert
Foster, Dorothy Vaughan
Garretson, Helen May
Gendron, Noella Antoinette
Gerbel, Arthur, Jr.
Gibson, Edward Bayne Rogers[A]
Gingrich, Pearl
Glen, Irving Philip
Gordon, Johanna M.
Graybill, Anita Joan (*cum laude*)
Grebe, Louisa Edith[A]
Grimes, Margaret Pennebaker[A]
Grisim, Elizabeth
Gundlach, Ralph Harrelson
(*cum laude*)
Gunning, Alice[M]
Guthrie, Iris Barbara

Hansen, Herman[A]
Harrison, Roneta Oliver[A]
Harvey, Walter Miles, Jr.

The persons whose names are followed by the superior letters A D M received their degrees in the quarters of 1923-1924 ending in August, December and March respectively; all others in June, 1924.

For degrees conferred at the end of the summer quarter, August 28, 1924, see page 315.

Hawkins, Lewis
Hawley, Mary
Hill, Ray Hayward
Holz, Eva Lucille
Howard, Doris Isabelle
Hubbell, Ruth Margaret
Hughes, Anne Burke
Hulshover, Ruth
Hunt, Ernest R[D]
Hwang, Thomas Sianghai
Hyde, Claire Virginia
Jensen, Kai (*summa cum laude*)
Johnson, Raymond Lokke[M]
Kinkade, Lucille[A]
Kirby, Ruth Yates
Koenig, John[M]
Laird, Thelma Lucille
Lambert, Rebecca Kempthorne[A]
Larkin, Frances Emma
Larson, Gustav Ferdinand
Lash, Frederick Merrick[A]
Levy, Melvin P.[D]
Lewis, Eileen
Lind, Andrew William[D] (*cum laude*)
MacDonald, Louise (*cum laude*)
Macdonald, Gordon W.[M]
McAllister, Josephine Emily[M]
McCarty, Marguerite Helen
McConnell, Avis Jones
McCroskey, Mary Lee
McCulloch, Flora May[A]
McDonald, Darrel W.[A]
McEachern, Gertrude Estelle
Macfarlane, Margretta B.
McLean, Allan Gilbert
McLeod, Jean Keith
Markusen, Grace Kathleen
Marquis, Ralph William
Martin, G. Emily
Meyer, Herman H.
Mills, Zelma E.
Mills, Elizabeth M.
Mineta, Mokichi
Monroe, George Henry[M]
Morgan, Mary Inez
Mott, Francelle[A]
Nelson, Everett J.[D] (*magna cum laude*)
Nickel, Lucille F. (*cum laude*)
Null, John Edward, Jr.
Olson, Olga Claudia
O'Neil, Muriel Rita
Pattullo, David Smith
Pollock, Barbara
Poole, Bonnie Lucile (*cum laude*)
Powers, Francis Fountain[A] (*magna cum laude*)
Quigle, Helen Elizabeth[M]
Quigley, Helen Janette
Reid, Elizabeth Jean[D]
Richards, Catherine Mary[A]
Richardt, Preciosa G.
Rider, Nellie
Rininger, Helen Dorothy[M]
Robbins, Frances Rowena[A]
Roberts, Katherine E.[M]
Rogers, Eleth Adell
Rognon, Norma Nelle[D]
Ryder, Maude A. (*cum laude*)

Sadler, Estella Jackson[D]
Sakuma, Yasuharu A.[M]
Sanders, Carrie
Sandusky, Oris Edward[M] (*magna cum laude*)
Santee, Eva[A]
Schreiber, Paul Roland[M]
Schwartz, Gene
Scott, Jessie Waite
Scott, Marion Snow
Scott, Wallace Wendell
Secord, Isobel
Seely, Edwin[M]
Seltzer, Harry David (*cum laude*)
Sexsmith, Hazel Georgia
Shipton, Mildred Jeanette
Short, Katharine Louise
Short, Spencer David[A]
Sirjord, Mea Francesca
Smith, Jeanne
Smith, Quentin Shipley
Smith, Ralph Rice
Smith, Verneta Terrill[D]
Southwick, Charles U.
Stickney, Amy Eunice
Stowasser, Frances Marie[A]
Swezey, Mildred Louise
Talbot, Mira[A]
Thayer, John Mullon[A]
Thompson, Lillian Irene
Thompson, Lois Dorothy
Thompson, Marguerite Estelle
Tiller, Arnt
Turner, Mary
Utike, Albert August
Valleau, Verna C.[A]
Van Gilder, Florence Myrtle
Veysey, Mary Isabel[A]
Virtue, Norma
Wahl, Evelyn Ann
Walker, F. D. Lanier
Wang, Jen-Ling[D]
Webb, Lilian E.
Weiermuller, Louise Harriet[D]
Wells, Dorothy Brownlow
Welsh, Gertrude
Welts, Richard Opdyke, Jr.
Westgate, Margaret
Whitman, Daniel Spurgeon
Williams, Edith Vailancourt
Windhusen, Anne Elizabeth[A]
Wood, Hazel Elethier
Wright, Wilma Corinne

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Axtelle, George Edward[D]
Bale, Ruth Calista
Beck, Harry George
Black, Ruth Ulyate
Bohn, Rachel Josephine[D]
Bras, Clarice Catherine[M]
Christies, Amos Uriah
Church, Anna Edsall
De Riemer, Robert Posey[A]
Dodd, Martha Wilhelmina[A]
Downie, Ruth Eleanor
Dywer, Monica Margaret
Ebeling, Walter Wilford[A]
Edgerton, Ernest B.[D]
Fuller, Richard Eugene
Gibson, Fred O.
Goodlander, Milicent G.[A]
Hatheway, Ernest Raymond
Hauschel, Robert Julius
Hay, Marjorie
Hazelton, Olga Jane[M]
Johnson, Kenneth A.[A]
Johnson, Sylvia
Johnson, Vernon Berthrand[A]
Jones, Stephen Barr (*magna cum laude*)
Kaiser, Gladys Guernsey
Kienholz, Leon Edward[A]
Macdonald, A. Lyall
Mayes, Evelyn
Olson, Marie Theresa
Pollock, Dorothea[A]
Purcell, J. William[M]
Rademaker, Lee Albert (*cum laude*)
Shank, Charles Howard, Jr.[D]
Shaw, Homer Merrill
Simpson, Anne[D]
Steele, Susie[A]
*Strickland, Norman Rupert
Swanson, Florence Lilian
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Weatherly, Clayton Warren
Wong, Fred Chew-Fee[M]
Wynne, Vivian E.
Young, G. Everett[M]

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Kalez, Marion M.
Keyes, Donald C.
Keyes, Howard Craig
Thornton, Ross Cook Blakeney[M]

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Balle, Alfred
Chapman, Joseph A.

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BACHELOR OF SCIENCE IN CHEMISTRY

Morgan, Frances Lilian

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Bateson, Florence Elizabeth
Beach, Leota Myrtle[A]
Boone, Julia Louise
Chamberlain, Helen D.[A]
Cristman, Martha E.
De Shon, Marguerite[A]
Gleiser, Fern W.
Hatfield, Olive A.
Himes, Hazel Flores
Holmes, Henrietta
Hudson, Dorothy Wilma
Hutchinson, Ruby Margaret[A]
James, Dorothy Janet
Johnson, Gladys Irene
Krogstad, Gladys Silvia
Lammers, Frieda[M]
Lynch, Rose[M]
MacLaughlin, Gay Elizabeth[A]
Morris, Ruby A.
Paulsen, Pauline Alberta
Penewell, Marion Frances
Ritz, Rutheleanor
Rudolph, Evangeline[D]
Ruings, Gladys May[A]
Ryan, Helen Theresa

*Died, June 9, 1924

Scott, Barbara Helen
Shannon, Margaret Jeannette
Sillman, Grace Estella
Sim, Ida Grace
Smith, Luella Elouise
Willoughby, Alice Beryl

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Hamilton, Marjorie Lucille[D]
Kimple, Emily Belle
Nelson, Valley
Niemela, Jennie Marie[D]

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McElroy, Elizabeth[A]
Patten, Glee Loomis
Waller, Vera Leota[M]
Woodcock, Lou Agnes

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Cobb, Genevieve Catherine
Hinskley, Helen Elizabeth
Inkster, James Henry
Johnson, Martin Wiggo (*cum laude*)
Meaker, Marian Esther

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Akin, Margaret Agnes[A]
Alm, Reuben A.[A]
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Booth, Mira Eleanor
Boundy, Charles Milburn
Bousfield, Winifred
Brown, Imogene[A]
Buhl, Frances Helen
Burkman, Joel Andrew[A]
Charroin, Ida R.[A]
Christensen, Marie L.[A]
Cochrane, Roy[D]
Crofoot, Mentha Lucina
Daquioag, Sebastian
Davis, Elwood Craig
Davis, Roy Nathan
Dellinger, Sarah Sherwood[A]
Drake, Helen Hazel
Drake, Mildred Ethyl
Emerson, Donald Alvan[D]
Erickson, Elisabeth Evelyn
Ficks, Amanda
Fitzpatrick, Genevieve Anne[D]
Frem, Agnes Anada[M]
Furgeson, Paul F.
Gatewood, Theresa Van[M]
Goldman, Erwin F.
Gurevitz, Tirza
Hall, Robert Christopher Bassett
Hall, Vesper Trevor
Haller, Mary Elizabeth (*cum laude*)
Hamilton, Laura Hoover[M]
Harvey, Sarah Margaret
Hatlen, Charles Bernard[A]
Hatley, Mamie Chase
Henricksen, Frederick Stanley
Horst, Claude W.[D]
Jerome, William Jabez
Johnston, Fayetta Gabriella
Jones, Ione Deane[M]
Keith, Allie Hazleton
Kennedy, Doreen
Keyes, Anna Marie
Knuth, William Edward
Kreamer, Lena[M]
Lapham, Margaret A.[A]
Leaf, Alice[A]
Logan, Ettie[D]
Lynch, Anna Martha[A]
Lynch, Joseph Henry[D]
McAbee, Grace Catherine
McConihe, Ruth Noyes
McCoy, Edward Marion[A]
McLain, Ada Esco[A]
Mehner, Margaret Theresa[A]
Merriam, Sherman Lee[A]
Neidert, Louis John[M]
Noll, Pauline[A]
Okerlund, Gerda Maria[A]
Ouren, Marian
Panchot, Dwight Harrison[D]
Parry, Jane
Phillips, Deral E.
Poole, Florence Alice
Powley, Verna May

Preiss, Julia Eva
Pretlow, Clotilde Ladd
Price, Zetta
Records, Lola Evelyn[M]
Rice, Philip Richard[M]
Richardson, Jennie[A]
Riley, Helen
Roaney, Marland B.
Rogers, Henry E.[A]
Schertel, Max[A]
Shafer, Lloyd N.
Sharpe, Elton Dennis[D]
Shawler, Grace[A]
Steinberg, Amy Jane[M]
Stevens, Theodore George[A]
Turpin, Stella Marguerite
Underhill, Walter Morton[M]
Ward, Alma M.[D]
Ware, Janet Martha
Weigeldt, Josephine M. Lehmann
Wentworth, Lois Janet[A]
Williamson, Julia Alice
Wilson, Burdette G.
Wright, John Willis

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Einarson, Arthur S.
Ellzworth, Ruth
Lacy, Violet Dora
McMeen, Ruth Frances[A]
Parke, Charles Gilbert
Reed, Clyde L.[A]
Rhinesmith, O. L.[A]
Wilson, Bernadine E.
Wiseman, B. Evangeline[A]

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Dustan, Laura[A]
Hamm, Charles Henry[D]
*Keifer, Lyman Beecher
Pennell, Geneva Estora
Peterson, Katherine Willard[A]
Wallis, Orpha
Wilson, Florence Bergh

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Bigby, Valley
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Clelland, Isabelle Meade
Emanuel, Ellen
Hagerty, Nellie [A]
Kercheval, Lucile Tinkcom
Kinne, Frances Elinor
McDowell, Frances
Metsker, Edith Evans
Munro, Kathleen
Newcomb, Muriel Rosamond
Newdall, Clifford Olaf
Peterson, Thelma R.
Porter, Edith Margaret
Rogers, Julia Wilmot
Skartvedt, Agnes Elizabeth[A]
Skewis, Mary
Steele, Kathryn Janet (*cum laude*)
Tanner, Frances Josephine

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Ahlblad, Gerda (*cum laude*)
Barnes, Ruth Mabel
Beaver, Gladys
Bush, Elizabeth Pauline
Byers, Maryhelen[A]
Chisholm, Dorothy Mary
Cooley, Zoe Lathrop
Finlay, Dreda Deronda
Gambee, Elizabeth R.
Hemphill, Harriet
Hepler, Helen[A]
Hoover, Henry Browne (*cum laude*)
Jacobson, John Theodore
Kimball, Jessie Mary
Padelford, Morgan G. (*cum laude*)
Perkins, Dorris Ellen
Philiips, Phyllis[M]
Pitcher, Helen Deforest
Porter, Mary Elizabeth
Presley, Grace Louise[M]
Puymbroeck, Lena
Salladay, Ruth[A]
Seabury, Esther Lucy
Seeley, Mildred Lavone
Sweet, Marion Louise
Sykes, Iris Honor

*Died May 8, 1924.

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Jones, Victor Noble Jarrott
Shoemaker, Harry Edwin

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Callow, Doris[D]
McQuaid, Thelma Aileen
Matthews, Dorothy Hale[D]
Spriesterbach, Alice Miriam
Utley, Willa Pauline

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BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Borglin, Joseph Nathaniel
Hopmann, Harry Arthur George (*cum laude*)
Lloyd, Katherine Mary
Lurie, David (*cum laude*)
McCarthy, Donal Francis
Rickles, David Nathaniel[M]
Rourke, Rupert Karl

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Billings, Charles Newport[D]
Carpenter, Edward Laramie, Jr.[M]
Clark, Paul Blackburn[M]
Clausen, Chester Kessler
Grant, Donald Francis
Hamilton, James Baker[D]
Hansen, Thorwald Arthur
Harper, Paul Albert[M]
Hughes, Edwin A.[M]
Jones, Howard Richard
Kief, Caswell Ward
Odegard, Paul Nickolas
O'Neel, Henry Clayton[M]
Pooley, Frank B.[M]
Resos, Eugenia Peralta
Ross, Grant Duncan[M]
Runciman, George (*cum laude*)
Ziel, Frederick Leonard

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Anderson, Adolph[A]
Backer, James Joseph
Carter, Launor McKinley
Chitty, Lyman Melville
Church, Richard Arthur
Clark, Stanley Arthur
Cookingham, Merritt Granville
Crump, Leonard W.
English, James Daniel
Ewell, Mansfield Mac (*magna cum laude*)
Fall, James Davis
Felch, Lewis David
Funakush, F. Kinichi[M]
Gale, Ralph Elliot
German, Cornelio[A]
Hoard, Bert Verne (*cum laude*)
Howe, Kendall Lee[D]
Kieburtz, Gustav Harold
Kraft, Edwin Arnold[M]
Krieger, George Edward
Lane, Ralph Belford
McCracken, Willis F.[M]
Mason, Earl Clifton
Morhous, Delbert Miller[M]
Naden, Edwin Thomas
Nelson, Walter A.[D]
Noel, Lionel S.[M]
Pyle, Mark
Ramm, Aubrey Gillespie
Rasmussen, Fred Neil
Rathbun, John McKee
Sletmoe, Albert Martin[M]
Stevens, Richard Francis (*cum laude*)
Stover, Merrill McCord[M]
Swanson, Verne John[D]
Valentine, Haddon Prentice[M]
Walker, Roger Albert[M]
Worthley, Charles Bond

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Bashey, Elmer C.
Farquharson, Frederick Burt[M]
Frazier, George Gordon[D]
Gullickson, Albert Clarence
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Lively, James Ward
Neer, Harry
Neumann, Russell Alfred
Rosebaugh, Theodore
Tucker, Alexander Nesbit[D]
Watne, Edwin Merritt (*cum laude*)

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Burnett, John Andrew[D]
Howard, Walter Joseph
Jower, Joseph Alfred Wan
Packard, Dexter Richards
Peterson, Howard Henry
Scott, James Gordon[A]
Smith, Trueman T.
Wong, Sam H.

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BACHELOR OF SCIENCE IN MINING ENGINEERING

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Hurlburt, Charles Michael

BACHELOR OF SCIENCE IN GEOLOGY AND MINING

McCormick, George Philip[D] (*cum laude*)

BACHELOR OF SCIENCE IN COAL MINING ENGINEERING

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Regan, Frank Timothy
Studley, James Donald
Thompson, Allen Emmett (*cum laude*)
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Dix, Peres A.
Eheim, Helen A.[A]
Galeno, Eugene F.[D]
Harm, Frank Donald, Jr.[D]
Humes, Edmond T.[M]
Lehman, Arnold John
McCoy, John Wyman
McFee, Bertha Love
Meyers, Sheldon Charles
Nicholson, William Ronald
Pratt, Helen Van Ness
Rhodes, Leonard[A]
Rollins, Paul R.
Rothwell, Cyrilla Mary
Silke, Harold Walford[D]
Shure, Sol Lee
Silverstone, Eugene Henry
Warner, Newton E.
Whitely, Ernest D.
Zumwalt, Homer Orion

BACHELOR OF SCIENCE

Adamson, Louise
Cheng, Pao Yuan[A]
Eheim, Helen A.[A]
Galeno, Eugene F.[D]
Lofgren, Frederick Valentine (*cum laude*)
Pratt, Helen Van Ness
Rhodes, Leonard
Rollins, Paul R.
Silverstone, Eugene Henry
Stoody, Helen Mary (*magna cum laude*)
Zumwalt, Homer Orion

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Amesbury, Helen Jean[A]
Anderson, John Adolph[D]
Anderson, Stanley Jonathan
Archey, H. Dean[D]
Auld, Willis R.
Austin, Russell Anderson
Bakke, Frithjof William.
Bowen, William Edward
Bragg, George Tully
Bridgeman, Glenn Harvey
Brown, Francis Lemon
Bunkay, Vaughn
Butt, William Howard, Jr.
Caldwell, Derrald Vaughn[M]
Campbell, Alexander, Jr.
Carey, Ruth Isabelle
Chittenden, Theodore Parker
Clithero, Raymond Henry
Cobb, Maurice Crossman
Crosby, Harold Wilkins[D]
Cruzen, Edward A. (*magna cum laude*)
Davies, Thomas Dayton (*cum laude*)
Davis, J. Vernon
Dixon, Frank Neill
Drew, Newton[D]
Driscoll, Edwin Utley[M]
Edinger, Carter William
Elwell, Talmage Fletcher
Erickson, Alfred Charles
Ericson, Howard Carl
Fitzgerald, Florence Marie
Foran, Leo Lester
Foster, Frederick S.[A]
Frankland, Charles
Fraser, Edmund Shepard[A]
French, Mabelle C.[A]
Froude, Chester W.
Gottstein, Burton (*magna cum laude*)
Grafton, Arthur Edmund, Jr.
Grant, Allyn Parsons
Greenleaf, Joseph Tucker, Jr. (*cum laude*)
Greenlee, John Frederick
Hagen, Richard Otto
Hall, Wayne Lee[D]
Halverson, Helmer M.[A]
Hammerlin, Roy Nels[A]
Hansen, Hannah Amolia
Hansen, Harry F.[D]
Hanson, Rainhardt Stanley[A]
Harkness, Arthur Ervin
Harris, Edna Prince
Harris, Parker Elmore[D]
Hawley, Clarence B.[D]
Heily, Robert George
Herrett, Clarence Harley
Hirata, Harry Manichi[D]
Hornberg, Jalmar Theodore (*cum laude*)
Hudson, Mabel Catherine
Hunt, Laurence W.[M]
Huntworth, John Willard[M]
Hyman, Norton Beebe[A]
James, Thurston H.[M]
Jaques, Guy Edward
Jenner, Cornelia Elizabeth (*cum laude*)
Jenness, John C.[D]
Joubert, Stanley S.[A]
Kenyon, George Dewey[M]
Kidder, Jay Douglas[M]
Klug, Vivian Childs
Knuppenburg, Irva Caryl
La France, Arthur Claude[D]
Laudy, Henry Allen
Laue, Ewart S.
Lawton, Winona May
Lim, James Kimkok
Lindsay, Mazie Palmer[A]
Lockhart, Bert
Loughary, Jack Blaine
McDonagh, William James
McInroe, Lloyd Gerald[D]
Mazna, George James
Metz, John Ernest[D]
Meyer, Walter Charles[A]
Miller, Isidor E.
Miller, H. Keith
Mischler, James Jolly

Mitchell, Verne Henry (*cum laude*)
Moore, Harold Warren[M]
Morrow, Ralph John
Mudge, John S.
Nerland, Arthur Leslie
Nicholson, Robert Sinclair
Nicolai, Florice
Nourse, Salem A., Jr.
O'Connell, Charles William[D]
Orosa, Jose Ylagan[A]
Parkhouse, Russell K.
Perkins, Samuel Houston
Peterson, Richard F.[A]
Peterson, Wendell Floyd
Phipps, Guy Francis[A]
Porter, Barton Frederick
Rankin, James Huston, Jr.
Redfield, Ben
Reeder, Ardis Harold (*cum laude*)
Regan, Willard Philip
Renshaw, Harold Byron[M]
Ringstad, Emery Theadore
Risley, Dudley Buchan
Rowntree, Richardson Henry
Ryan, Frederick A.
Sanders, Elva May
Savage, Joseph Edward[A]
Scholl, Suzanne, Elizabeth (*cum laude*)
Scott, Frank William[A]
Scott, Morris R.[M]
Scotton, Edwin Betz[A]
Seeley, Paul W.
Smith, Charles Joseph[M]
Smith, Dorothy Cranney[D]
Smith, Walter A.[D]
Sparling, Margaret Jane
Sperry, Emery F.
Tilbury, Percy William
Townsend, Howard George (*cum laude*)
Tucker, Ellen[M] (*Magna cum laude*)
Typer, Linn Malon[D]
Vincent, Chester
Walters, Earl Cecil
Weinstein, Harry H.
White, Dykeman
Whitner, George A.
Wise, Joseph William
Wise, Leslie Vernon
Wolfe, John Brown
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Chute, Harold Gordon
Courtney, Charles Edwin
Daly, William Joseph, Jr.[D]
Dodd, Hamlet Porch
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Fowler, Thomas Newell (*cum laude*)
Garver, Robert W.[A]
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Kennett, John Joseph[A]
Lindsey, Charles Abbott
Lycette, John Philip[M] (*cum laude*)
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MacDonald, Archibald Nathaniel[M]
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*Died May 30, 1924.

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BACHELOR OF ARTS

Funkhouser, Myrtle[D]
Larson, Luella Clair[D]
Lucus, Martha McArthur[A]
Oates, Eulalie[A]
Olson, Jenny Elizabeth[A] (*cum laude*)
Todd, Daphne[A]

BACHELOR OF SCIENCE IN LIBRARY SCIENCE

Baker, Dorothy Ada[A]
Beardsley, Arthur Sydney
Boyd, Esther Elizabeth
Christoffers, Ethel Margaret[A]
Crompton, Margaret
Edwards, Thelma Lillian[D]
Funkhouser, Myrtle[M]
Hitchings, Esther Louise[D]
Lloyd, Helen Agatha
Lundell, Berger John Olaf[A]
Robinson, Edgar Stewart
Schulz, Katherine Louise
Sisler, Sara Elizabeth
Smith, Vernette Terrill[D]
Sneed, Marie Frances[D]

SCHOOL OF JOURNALISM

BACHELOR OF ARTS IN JOURNALISM

Bunday, Margaret Macauley
Burroughs, Walter Laughlin
Campbell, Alice Atwood
Cole, Helene Adelaide
Due Rae, Bernice
Dwyer, Kathryn Rita
Elliot, Maxine Bannon
Graham, Albert E.
Harrison, Frances
Hills, Carlotta Florence
Hillyard, Carlton Livermore
Hindley, Philip Martin
Keller, Earl W.
Murton, Clarence C.
Palacol, Augustine[M]
Perrine, Charles Saviers
Prager, William Abram
Schmitt, Margaret Frances
Tyler, Charles Pound
Watts, Archie Lester[A]

GRADUATE DEGREES

GRADUATE SCHOOL

CHEMICAL ENGINEER

Harmon Edward Keyes

B.S., University of Washington, 1921
M.S. in Ch.E., University of Washington, 1922
Thesis: The Complex Ore Problem: Application of Certain Experimental Data to Commercial Problems

ELECTRICAL ENGINEER

George Sherman Smith

B.S. in E.E., University of Washington, 1916
Thesis: Transmission Line Design: Mechanical Design of Spans with Supports at Unequal Elevation

MASTER OF ARTS

Charles Augustus Baylis (Philosophy)

A.B., University of Washington, 1923
Thesis: A Critical Examinations of a Contemporary View of Positivism

Carl Vincent Barker[A] (Education)

A.B., University of Indiana, 1909
Thesis: A Study of School Progress

Fred Emil Berquist (Economics)
A.B., University of Washington, 1923
Thesis: Tax-exempt Securities—Their Effect Through the nIcome Tax on the Accumulation and Distribution of Capital

Leo Arthur Borah (English)
A.B., Huron College, 1913
Thesis: History of the Life and Deeds of Henry VII, Most Powerful and Wisest of the Kings of England and France, by Bernard Andre of Toulouse, Poet Laureate and Royal Historiographer. Translated from the Latin.

Alice Beatrice Brethorst[A] (Education)
A.B. in Ed., University of Washington, 1922
Thesis: A Survey of Health Conditions in Seattle Grade Schools With Some Educational Implications

Raymond Edward Cook[A] (Education)
A.B., College of Puget Sound, 1907
Thesis: A Study of Certain Phases of School Finance and Business Administration

Mary Aleen Davis (Home Economics)
B.S. in H.Ec., University of Washington, 1922
Thesis: The Significance of Spiral Fission in the Secondary Lamellae of the Prosenchyma-

Elizabeth MacEachin Drummond [A] (English)
A.B., University of Washington, 1917
Thesis: The Influence of Donne on Webster

Adelaide Louise Fairbanks[A] (English)
A.B., University of Washington, 1922
Thesis: Horace Greeley and Mid-Century Reform Movements in the United States

Clyde Cowie Foley (Political Science)
A.B., Reed College, 1921
Thesis: The Political Philosophy of John Stuart Mill Viewed as a Conflict Between Eighteenth and Nineteenth Century Thought

Charles Jacob Foster (History)
B.Ed., University of Washington, 1921
Thesis: The Pacific Coast in the Civil War

Nina B. Fulton[A] (English)
A.B., Washington State College, 1914
Thesis: The Influence of Latin Upon the Vocabulary, Metre and Syntax of Paradise Lost

John Herbert Geoghegan[A] (Sociology)
A.B., University of Washington, 1922
Thesis: The Migratory Worker in Seattle: A Study in Social Disorganization and Exploitation

Clarence Corleon Green (English)
A.B., University of Washington, 1923
Thesis: The Spirit of Joseph Conrad

Rachel Elizabeth Hamilton[M] (French)
B.L., Whitman College, 1910
Thesis: Le Diable dans les Miracles Francais

Francis Tiley Hardwick[A] (Education)
A.B., University of London, 1892
Thesis: A Study of the Growth of Intelligence During One Year

Emma Cynthia Hart (Education)
A.B., University of Washington, 1922
Thesis: A Study in Classification

Arne Sigurd Jensen[D] (Education)
A.B., University of Washington, 1919
Thesis: Comparison of the School Costs and County Government Costs of Yakima County, 1913 to 1922

Lucy Kangley[A] (English)
A.B., University of Washington, 1922
Thesis: A Companion to the Society Novel from Burney to Thackeray

John Francis Lemon (French)
B.Ed., University of Washington, 1920
Thesis: On the Subjective Mood in the Romanic Languages with Special Reference to Spanish

Katherine Jane Lentz (Sociology)
A.B., University of Washington, 1912
Thesis: Japanese-American Relations in Seattle

Edward Dewart Lewis[M] (English)
A.B., University of British Columbia, 1922
Thesis: The Position of Matthew Arnold's Theology in the Development of Theological Thought in England

Minnie Dezena Loutzenhiser[A] (Education)
B.S. in Ed., State Teachers' College of Maryville, Missouri, 1919
Thesis: Achievement of Seniors of High Schools of Seattle in Relation to Their Ages

Theodocia Elizabeth McCausland (English)
A.B., University of Washington, 1920
Thesis: An Analysis of the Spirit of Satire

Lesile Alexis Machand[A] (English)
A.B., University of Washington, 1922
Thesis: The Romantic Realist Controversy in America Before 1900

William James Marquis[A] (Education)
A.B., University of Washington, 1923
Thesis: Legislation on the Junior High School

Miles Evan Morgan[A] (Education)
B.S., University of Washington, 1915
Thesis: The Boys' Advisor in Secondary Schools

Takiji Morimoto[M] (English)
A.B., University of Washington, 1921
Thesis: Rationalism and Joseph Addison

Alice Morrison[A] (Education)
B.S., Amity College, 1908
Thesis: The Content of Modern History as Taught in our Secondary Schools: An Analysis of Typical School Textbooks

Hattie Sylvia Murray[A] (History)
A.B. University of Idaho, 1915
Thesis: Three Studies in Pre-War Diplomacy

Anne Norwood (English)
A.B., University of Washington, 1920
Thesis: Chaucer's "House of Fame" in 1924

George Allen Odgers[D] (English)
A.B., University of Nebraska, 1916
Thesis: The Seventeenth Century Reputation of Thomas Hobbes

James Orin Oliphant (History)
A.B., University of Washington, 1916
Thesis: History of the State Normal School at Cheney

Margaret Rigg (English)
A.B., University of Washington, 1922
Thesis: The Work of Thomas Shadwell

Elizabeth Jane Rodgers[D] (English)
A.B., Washington State College, 1909
Thesis: England of Anthony Trollope

Marion Wesley Roper[A] (Sociology)
B.Ed., University of Washington, 1922
Thesis: A Neighborhood Study of Juvenile Delinquency

Oris Edward Sandusky (Philosophy)
A.B., University of Washington, 1924
Thesis: Social Progress and Social Value

Lurline Violet Simpson[D] (French)
A.B., University of Washington, 1920
Thesis: Some Sources of Belleau's Amours et mouveaux eschanges des Pierres preciouses vertuz et proprietez d'icelles

Ethel Elizabeth Smith[D] (Education)
A.B. in Ed., University of Washington, 1923
Thesis: The Public Education Association, a Private Agency Promoting Educational Reform

Edward Matthewson Stilwell[A] (Education)
A.B., University of Washington, 1910
Thesis: An Experimental Study of the Project Method in the Teaching of Physics in the High Schools

Martha Elizabeth Stone[A] (Education)
A.B., University of Washington, 1923
Thesis: Bonds Interest and Depreciation in City School Accounting

Margaret S. Taylor[A] (English)
A.B., University of Montana, 1921
Thesis: Humor and Social Maladjustment

Robert Elson Turner (French)
A.B., University of Washington, 1923
Thesis: A Study of the Sources and Interrelation of the Renaissance Dido Tragedies

Verna Clarissa Valleau (English)
A.B., University of Washington, 1923
Thesis: Reflections of Upper Class Life Found in the Drama of Beaumont and Fletcher

George Avery Walter[M] (Education)
B.S., Michigan State Normal College, 1919
Thesis: A Study of the Functions of the School Superintendent, the Clerk and the Board of Education of the Smaller School Districts of Washington

Ernest Avard Whitman (English)
A.B., Linfield College, 1921
Thesis: James Shirley and English Society

MASTER OF SCIENCE

Ernest Clement Angst[A] (Bacteriology)
B.S., University of Washington, 1922
Thesis: Thermal Death Points of the Spores of Some Aerobic Bacteria

Marjorie Hay (Chemistry)
B.S., University of Washington, 1924
Thesis: Local Anesthetics of the Aromatic Series

Elizabeth Hiner[A] (Chemistry)
B.S., Colorado State College, 1919
Thesis: The Determination of the Hydrogen Ion Concentration of the Equilibrium Points in the Successive Stages of the Hydrolysis of Monocalcic Phosphates; also of the Solubility of the Basic Arsenate of Calcium.

Marguerite Emily Kittredge[A] (Chemistry)
A.B., University of Washington, 1908
Thesis: Alcohol as a Solvent in the Extraction of Rosin

Miriam Luten[A] (Bacteriology)
B.S., University of Washington, 1922
Thesis: A Study of the Distribution in Nature of the Common Anaerobic Bacteria

Margaret Esther Myers[M] (Botany)
B.S., University of Washington, 1921
Thesis: The Mucilage Canals of Nereocystis

George Herbert Needham (Pharmacy)
B.S., University of Washington, 1923
Thesis: Microscopical Studies on Berry Products

William Thomas Nightingale (Geology)
B.S., University of Washington, 1919
Thesis: Geology of the Lunding Area Assan, Northwest India, and Oil Shales of Washington

Marjorie Whipple Peterson (Chemistry)
A.B., Colorado College, 1917
Thesis: The Effect of an Excess of Acid-forming or Base-Forming Constituents in the Diet on the Growth and Well Being of the Albino Rat

Howard Percy Robertson[A] (Mathematics)
B.S., University of Washington, 1922
Thesis: An Extension of the Absolute Differential Calculus

Harold Adam Shoemaker (Pharmacy)
B.S., Valparaiso University, 1920
Thesis: The Alkyl Hydrazines and Their Pharmacology

Belle Alice Stevens (Zoology)
B.S., University of Washington, 1919
Thesis: Hermit Crabs of the German Pagurus, Paguristes and Pylopagurus of Puget Sound, Washington

Nellie May Tegland Geology)
A.B. in Ed., University of Washington, 1922
Thesis: Fossil Fauna from Restoration Point, Bainbridge Island

Cecil Rowland West (Chemistry)
B.S., University of Washington, 1922
Thesis: The Preparation and Properties of Some Beta Gamma Unsaturated Phenyl Ethers

Constance Mary West (Chemistry)
B.S., University of Washington, 1922
Thesis: Precipitation of Colloids of the Suspensoid Type with Mixtures of Electrolytes

William Gray Wilson (Physics)
B.S., University of Washington, 1922
Thesis: Radiation from a Cast Iron Radiator

MASTER OF FORESTRY

Estella Grace Dodge
B.S.F., University of Washington, 1922
Thesis: The Significance of Spiral Fission in the Secondary Lamellae of the Prosenchymatous Tracheids of Douglas Fir with Especial Reference to Shrinkage

Sheo Nath Kaul[D]
B.S.F., Imperial Forest College, Dehra Dun, India, 1912
With Special Reference to Those in the Kashmir State

James Donald Studley
B.S.F., University of Washington, 1924
Thesis: The Cost of Kiln Drying Compared to the Cost of Air Seasoning Heavy Sizes of Green Southern Swamp Oak

MASTER OF SCIENCE IN METALLURGY

Henry Clay Fisher
B.S. in Min.Eng., Oregon Agricultural College, 1922
Thesis: A Study of the Preparation of Artificial Sillimanite in the Electric Furnace and its Properties

Gordon Bennett Jeffers
E.M., University of Minnesota, 1923
Thesis: Melting and Refining of Sponge Iron in the Electric Furnace

MASTER OF SCIENCE IN MINING ENGINEERING

Albert Cameron Richardson
B.S. in Min.Eng., University of North Dakota, 1922
Thesis: The Cleaning of Classified Coal on Tables

MASTER OF BUSINESS ADMINISTRATION

George Martin Jacobs
A.B., Cotner College, 1907
Thesis: The Relation of Life Insurance to the Income Estate and Inheritance Taxes

Harry John McIntyre[A]
B.S. in M.E., University of Washington, 1915
Thesis: An Investigation of the Depreciation of Office Buildings

Mohan Kahlon Singh
B.S.C., Oregon Agricultural College, 1923
Thesis: Indian Currency and Gold Standard

Harold Barton Watt
B.B.A., University of Washington, 1923
Thesis: Stabilization of the Shingle Market

MASTER OF SCIENCE IN FISHERIES

Clarence Louis Anderson
B.S., University of Washington, 1917
Thesis: Preserved Pickled Herring

MASTER OF FINE ARTS

Mabel Lisle Ducasse
B.F.A., University of Washington, 1923
Thesis: Portraits in Pastel

DOCTOR OF PHILOSOPHY

C. Floyd Appleton[D]
A.B., Seattle Pacific College, 1922
M.A., University of Washington, 1922
Thesis: The Disintegration of the Jewish Colony of Kaifeng, China

Waldo Lonsbury Semon[D]
B.S. in Ch.E., University of Washington, 1920
Thesis: The Precipitation of Metals by Hydrogen Sulfide. A Study of Certain Sulfur Complexes of Mercury

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NORMAL DIPLOMAS

UNIVERSITY FIVE-YEAR NORMAL DIPLOMA

Adams, James Hall[A]
Ahlblad, Gerda
Akin, Margaret Agnes[A]
Allan, Helen Quinton
Alm, Reuben A.[A]
Anderson, Philena Mary[A]
Argall, Margaret Crystal
Auld, Willis R.
Axtell, Frances Loiuse
Bakeman, Frances Louise[A]
Bale, Ruth Calista
Bamford, Ruth Lawson
Bazzett, Marian Spalding
Beach, Leota Myrtle[A]
Beaver, Gladys
Berg, Margaret Harnish[D]
Best, Erle Clifton
Bigby, Valley
Bingham, Blanche Irene
Black, Mary Catherine[M]
Black, Ruth Ulyate
Blackburn, Richard Leroy[M]
Boggs, Thelma Viola
Bohn, Rachel Josephine[D]
Bonnett, Howbert Bainter
Booman, F. Albert[A]
Boone, Julia Louise
Booth, Mira Eleanor
Borah, Juanita Frederick
Boundy, Charles Milburn
Bousfield, Winifred
Boyer, Margaret
Bras, Clarice Catherine[M]
Brthorst, Alice Beatrice[A]
Brown, Grace Adelaide[A]
Brown, Lois Eula[D]
Brown, Imogene[A]
Buchanan, Lorna May
Buhl, Frances Helen
Burkman, Joel Andrew[A]
Burkman, Orpha Hampton
Burmeister, Elizabeth M.[A]
Bush, Elizabeth Pauline
Campbell, Clyde Gordon
Carlson, Gladys May
Carlson, Julia Carolyn[A]
Carmichael, Ruth Pearce[A]
Chamberlain, Helen D.[A]

Charrion, Ida R.[A]
Chisholm, Dorothy Mary
Christensen, Marie L.[A]
Christianson, Victor Childs
Church, Anna Edsall
Clark, Alta M.
Clifton, Mary Evelyn
Cobb, Genevieve Catherine
Cochrane, Roy[D]
Cohen, Fannie L.[D]
Cooley, Zoe Lathrop
Creamer, Evelyn Marion
Critsman, Martha E.
Crofoot, Mentha Lucina
Crouley, Beatrice Marguerite
Dahl, Bernice Irene[A]
Daigh, Margaret Levina
Daugherty, Anna Mott[A]
Davis, Elwood Craig
Davis, Herbert Frederick
Davis, Kathryn Schofield
Davis, Ray Nathan
Deaderick, Kelly Dent
Dellinger, Sarah Sherwood[A]
Devers, Izora De Ette
Dickinson, Charlotte Louise
Dinsmore, Stephen Smith[D]
Dodd, Martha Wilhelmina[A]
Dolan, Irene Lenore
Dolan, Hargaret Mary
Drake, Helen Hazel
Drake, Mildred Ethyl
Durham, Irene Somerville[D]
Dustan, Laura[A]
Easton, Inez
Ebeling, Walter W.[D]
Edgerton, Ernest B.[D]
Edwards, George W.[A]
Einarsen, Arthur S.
Elde, Dagney Marie
Eltzroth, Ruth
Elyea, Winifred[A]
Emerson, Donald Alvan
Erickson, Alfred Charles[D]
Erickson, Elizabeth Evelyn
Faubert, Florentine Virginia
Ficks, Amanda
Finlay, Dreda Deronda
Finlay, Maxine
Fitzgerald, Florence Marie
Fitzpatrick, Genevieve Anne[D]
Ford, Katherine Dyer
Ford, Laura Joy
Foster, Dorothy Vaughan
Fredson, Dora E.[D]
Frem, Agnes Anada[M]
Freeman, George Walker[A]
French, Mabelle C.[A]
Froude, Chester W.
Furgeson, Paul F.
Gatewood, Theresa Van[M]
Gendron, Noella Antonette
Gibson, Edward, Bayne Rogers[A]
Gibson, Fred O.
Gingrich, Pearl
Goldman, Erwin F.
Gordon, Johanna M.
Graybill, Anita Joan
Grebe, Louisa Edith[A]
Grimes, Margaret Pennebaker[A]
Grisim, Elizabeth
Gullikson, Albert Clarence
Gunning, Alice[M]
Guthrie, Iris Barbara
Hall, Robert Christopher Bassett
Hall, Vesper Trevor
Haller, Mary Elizabeth
Hamilton, Laura Hoover[M]
Hansen, Hannah Amolia
Hansen, Herman[A]
Harper, Paul Albert[M]
Hartelius, H. F. H.[A]
Hatfield, Olive A.
Haten, Charles Bernard[A]
Hatley, Mamie Chase
Hawley, Mary
Hay, Marjorie
Hemphill, Harriett
Henrickson, Frederick Stanley
Hepler, Helen H.[D]
Hesseltine, Lee Frazelle
Himes, Hazel Flores
Hinckley, Helen Elizabeth
Holmes, Henrietta
Horst, Claude W.[D]
Howard, Doris Isabelle
Hubell, Ruth Margaret
Huggett, Ralph A.[A]
Hughes, Anne Burke
Hulshouser, Ruth
Hyde, Claire Virginia
James, Dorothy Janet
Jerome, William Jabez
Johnson, Gladys Irene
Johnson, Martin Wiggo[D]
Johnson, Raymond Lokke[M]
Johnson, Vernon Berthrand[A]
Johnston, Fayetta Gabriella
Jones, Ione Dean[M]
Kaiser, Gladys Guernsey
Kaufman, Gretchen[A]
Keith, Alie Hazelton
Kennedy, Doreen
Keys, Anna Marie
Kimball, Jessie Mary
Kinkade, Lucille[A]
Kirby, Ruth Yates
Knudson, Oscar M.[D]
Knuppenburg, Irva Caryl
Knuth, William Edward
Kongsle, Edward[A]
Kravik, Alfhild Viola[D]

Kreamer, Lena[M]
Krogstad, Gladys Sylvia
Laird, Thelma Lucille
Lambert, Rebecca Kempthorne[A]
Lammers, Frieda[M]
Lapham, Margaret
Larkin, Frances Emma
Larson, Gustav Ferdinand
Lash, Frederick Merrick[A]
Leaf, Alice[A]
Lindsay, Mazie Palmer[A]
Logan, Ettie[D]
Loutzenhiser, Minnie Dezena[A]
Lynch, Anna Martha[A]
Lynch, Joseph Henry[D]
McAbee, Grace Catherine
McCarty, Marguerite Helen
McConihe, Ruth Noyes
McConnell, Avis Jones
McCoy, Edward Marion[A]
McCroskey, Mary Lee
Mac Donald, Louise
Macdonald, A. Lyall
McDowell, Frances
McEachern, Gertrude Estelle
McElroy, Elizabeth[A]
Macfarlane, Margretta B.
McGill, Winifred I. M.
McLellan, Kathleen Maxine
McLeod, Jean Keith
McQuaid, Thelma Aileen
Markusen, Grace Kathleen
Marquis, Ralph William
Martin, G. Emily
Matthews, Dorothy H.[D]
Mayes, Evelyn
Meaker, Marian Esther
Mehner, Margaret Theresa[A]
Merriam, Sherman Lee[A]
Metz, John Ernest
Miller, Ethel Taimer[A]
Miller, Zelma E.
Mills, Elizabeth M.
Moore, Harold Warren[M]
Morgan, Frances Lillian
Morhous, Delbert Miller
Morris, Ruby A.
Mott, Francelle[A]
Munro, Kathleen
Neidert, Louis John[M]
Nelson, Beulah Mae[A]
Nelson, Everett J.[M]
Newcomb, Muriel Rosamond
Newdall, Clifford Olaf[D]
Newell, Laura Evangeline[A]
Newman, Anne[A]
Noel, Lionel Samuel
Noll, Pauline[A]
Okerlund, Gerda Maria[M]
Olson, Marie Theresa
O'Neil, Muriel Rita
Ouren, Marian
Panchot, Dwight Harison[D]
Parker, Charles Gilbert
Parry, Jane
Paulsen, Pauline Alberta
Penewell, Marion rFances
Pennell, Geneva Estora
Perkins, Dorris Ellen
Peterson, Katherine Willard
Peterson, Thelma R.
Phillips, Deral E.
Pigott, Valeria Katherine[D]
Pollock, Barbara
Pollock, Dorothea[D]
Poole, Florence Alice
Porter, Edith Margaret
Powers, Francis Foutain[D]
Powley, Verna May
Preiss, Julia Eva
Pretlow, Clotilde Ladd
Price, Zetta
Puymbroeck, Lena Anna
Records, Lola Evelyn[M]
Reed, Clyde L.[A]
Rhinesmith, O. L.[A]
Rice, Philip Richard[M]
Richardson, Jennie[A]
Richardt, Preciosa G.
Rider, Nellie
Riley, Helen
Ritz, Rutheleanor
Robbins, Frances Rowena[A]
Rogers, Eleth Adell
Rogers, Julia Wilmot
Rognon, Norma Nelle[D]
Rudolph, Evangeline[D]
Runnings, Gladys May[A]
Ryan, Helen Theresa
Sadler, Estella Jackson[D]
Salladay, Ruth[A]
Sanders, Carrie
Santee, Eva[A]
Schertel, Max[A]
Schrieber, Paul Roland[M]
Schwartz, Gene
Scott, Marion Snow
Seabury, Esther Lucy
Seeley, Mildred Lavone
Shafer, Lloyd N.
Sharpe, Elton Dennis[D]
Shawler, Grace[A]
Sielk, William Henry[A]
Sim, Ida Grace
Simpson, Anne[D]
Sirjord, Mea Francesca
Skartvedt, Agnes Elizabeth[A]
Skewis, Mary
Smith, Charles Joseph[M]
Smith, Ethel Elizabeth

Smith, Gertrude Burwell[A]
Smith, Jeanne
Smith, Luella Elouise
Smith, Vernette Terrill[D]
Sperling, Otto Frederick V.[M]
Spriesterbach, Alice Miriam
Steele, Kathryn Janet
Steele, Susie[A]
Steinberg, Amy Jane[M]
Stevens, Theodore George[A]
Stickney, Amy Eunice
Stowasser, Frances Marie[A]
Swezey, Mildred Louise
Sykes, Iris Honor
Tack, Helen C.[A]
Thayer, John Mullon[A]
Thompson, Lillian Irene
Thompson, Lois Dorothy
Turner, Mary
Turpin, Stella Marguerite
Underhill, Walter Morton[M]
Utike, Albert August
Utley, Willa Pauline
Valleau, Verna C.[A]
Van Gilder, Florence Myrtle
Virtue, Norma
Wahl, Evelyn Ann
Waller, Vera Leota[M]
Wallis, Opha
Walter, George Avery[D]
Ward, Alma M.[D]
Ware, Janet Martha
Weiermuller, Louise Harriett[D]
Weigeldt, Josephine M. Lehmann
Wells, Dorothy Brownlow
Whitman, Ernest Avard
Whitman, Daniel Spurgeon
Williams, Edith Vaillancourt
Williamson, Julia Alice
Wilson, E. Bernadine
Wilson, Burdette G.
Windhusen, Anne Elizabeth[A]
Wiseman, B. Evangeline[A]
Wood, Hazel Elethier
Woodcock, Lou Agnes
Wright, John Willis
Wright, Wilma Corinne
Wynne, Vivian E.

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

Agcaoili, Andres G.
Eades, Herbert William[A]
Galbraith, Mary Grace[A]
Wilson, Faye Allison[A]

UNIVERSITY LIFE DIPLOMAS

Anderson, Frances Bertine[A]
Baker, Mildred Elizabeth[A]
Bollman, Dean Stanley[A]
Bollman, Marie Antoinette[A]
Burges, Henrietta
Campbell, Florence Elizabeth[A]
Campbell, Mary Veronica[A]
Carroll, Geneva North[A]
Chesley, Dorothy Helen
Council, Elizabeth[A]
Dillon, Margaret Winans
Fox, Lucile Elizabeth Adams
Fulton, Grace[D]
Grossen, Tilda Freda[A]
Hammarberg, Agnes Elizabeth[M]
Hardwick, Freda Phyllis[A]
Hauck, Hazel Marie[A]
Hayner, Miriam Marjorie[A]
Johnston, Violet Kathleen[A]
Jones, Marjorie
Larson, Victor Byron
Lonke, Lillian Jensine[D]
Ludwigs, Flora Emma[D]
Madison, Viola Delphine[A]
Martinson, Esther
Merchant, Jessie H.[A]
Norman, Evelyn Minglis
Norton, Parker Lavella
Norwood, Anne[D]
Olsen, Selma[D]
Phelps, Grace Marie
Rice, Edith Allegra[A]
Russell, Beulah[D]
Simpson, Lurline Violet[A]
Smith, George Mimms[D]
Smith, Truman Wheeler
Spier, Pearl Steineke[A]
Thune, Elmer Theron[A]
Walker, Bessie M.[D]
White, Fern E. Naugle[A]
Worthen, Clifton Boyd[A]

HONOR GRADUATE IN THE LAW SCHOOL

Joseph Nievinski

This award is made upon the basis of the best record for scholarship and personality 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.

HONORS IN PHARMACEUTICAL CHEMISTRY (Three-Year Course)

Sheldon Charles Meyers
Peres Alvin Dix
Arnold John Lehman

UNDERGRADUATE SCHOLARSHIP HONORS

FIRST JUNIOR HONORS

Aldwell, Doreen (LibArts)
Brewer, Alice F. (Sci.)
Coughlin, Paul J. (Lib. Arts)
De Shazo, Melvin G. (Lib.Arts)
Eby, Roger Irwin (Engr.)
Griffin, Frederic P. (Lib.Arts)
Grove, Leon C. (Engr.)
Hanson, Alice C. (Lib.Arts)
Lane, Glen L. (Engr.)
Lee, Mrs. Judith (Lib.Arts)
Manning, Harold C. (Engr.)
Norrie, Mary E. (Lib.Arts)
Proscott, John E. (Engr.)
Rader, Melvin M. (Lib. Arts)
Robinson, H. Gerald (Engr.)
Smith, Ray Martin (Engr.)

SECOND JUNIOR HONORS

Albaugh, Dorothy G. (Lib.9rts)
Anderson, Elizabeth C. (Lib.Arts)
Bakeman, Charles T. (Engr.)
Barlow, Marie S. (Sci.)
Bebee, Georgia (Sci.)
Benham, Dorothy (Lib.Arts)
Berglund, N. William (Engr.)
Biggar, Edson (Bus.Ad.)
Bingham, Robin A. (Sci.)
Bronson, Donald (Lib.Arts)
Chidester, Charles R. (Bus.Ad.)
Conklin, Russell P. (Bus.Ad.)
De Garmo, Marie L. (Bus.Ad.)
Eastman, Fred S. (Engr.)
Glenn, Wesley S. (Lib.Arts)
Graham, Donald P. (Engr.)
Green, Clifton D. (Bus.Ad.)
Haase, Edna L. (Sci.)
Hardinger, Annette (Phar.)
Hartt, Mrs. Bertha M. (Educ.)
Hocking, Lilian (Lib.Arts)
Jackson, Lillian (Lib.Arts)
Kerr, Elizabeth C. (Lib.Arts)
Kretschmann, Herbert F. (Lib.Arts)
La Follette, Marion B. (Engr.)
Lane, Kathryn (Lib.Arts)
Lanning, Oscar D. (Engr.)
Levinson, Herbert A. (Bus.Ad.)
Littell, Max E. (Bus.Ad.)
Mohr, Jennie (Lib.Arts)
Moore, Charles S. (Engr.)
Mueller, John A. (Engr.)
Olsen, Blanche A. (Bus.Ad.)
Paradis, Ernest J. (Engr.)
Peabody, Emery F. (Bus.Ad.)
Reid, Beatrice (Jour.)
Relf, Eugenia (Educ.)
Roscoe, R. Theodore (Engr.)
Seibert, Philip J. (Bus.Ad.)
Shaw, Clayton B. (Lib.Arts)
Shelton, Arthur L. (Lib.Arts)
Shera, Brian L. (Engr.)
Slane, Harold A. (Lib.Arts)
Smith, Harry Jr. (Bus.Ad.)
Spaeth, Aleen (Sci.)
Veitch, Albert H. (Engr.)
Wentworth, Margaret (Lib.Arts)
Wolf, Wanda M. (Educ.)

FIRST SOPHOMORE HONORS

Ariizumi, Kiyo (Phar.)
Bailey, Henry E. (Bus.Ad.)
Blum, John R. (Bus.Ad.)
Bowman, William C. (Lib.Arts)
Carlston, Kenneth S. (Bus.Ad.)
Engle, Nathaniel H. (Bus.Ad.)
Eyerman, Maxine B. (Lib.Arts)
Ford, Tirey F. (Engr.)
Gullickson, Harold (Lib.Arts)
Harvey, Lora M. (Lib.Arts)
Highland, Herman A. (Phar.)
Hill, John R. (Engr.)
Hoard, James L. Engr.)
Jensen, George L. (Engr.)
Karrer, Lawrence E. (Engr.)
Marchand, Ernest (Lib.Arts)
Marple, Warren H. (Lib.Arts)
Melang, Bjorn (Engr.)
Melson, Ray C. (Bus.Ad.)
Pearl, Charles J. (Lib.Arts)
Raichle, Marcus S. (Lib.Arts)
Ross, Donald L. (Engr.)
Sarro, Nicholas (Sci.)
Sickler, B. J. (Bus.Ad.)
Storey, Eunice (Lib.Arts)
Ewart, Gilbert (Lib.Arts)

Visser, William R. (Engr.)
Walker, Margery K. (Lib.Arts)
Waters, Aaron P. (Sci.)
Willson, Edward A. (Engr.)

SECOND SOPHOMORE HONORS

Adams, Henrietta M. (Sci.)
Albin, Virginia (Lib.Arts)
Allen, Edna (Phar.)
Anderson, Audrey J. (Lib.Arts)
Arnold, Harvey A. (Bus.Ad.)
Banks, William C. (Lib.Arts)
Blanchard, Fred C. (Lib.Arts)
Blue, Eugenia (Lib.Arts)
Blumberg, Frank E. (Engr.)
Brix, Egbert (Lib.Arts)
Carter, William L. (Bus.Ad.)
Chase, Dorothy (Lib.Arts)
Cheal, Mary (Fine Arts)
Clein, Lillian (Phar.)
Cohen, Joseph (Lib.Arts)
Cowan, Carol (Lib.Arts)
Cowley, Katherine P. (Fine Arts)
Coyne, Sophie (Lib.Arts)
Crosby, Roy H. (Engr.)
Evans, Marian (Fine Arts)
Evenson, William E. (Lib.Arts)
Fisher, Mary A. (Lib.Arts)
Ford, Melvern B. (Phar.)
Gordon, Walter S. Jr. (Engr.)
Gorham, Harlan W. (Bus.Ad)
Grove, Clare Mac A. (Bus.Ad.)
Hale, J. Grattan (Bus.Ad.)
Haner, Norman W. (Engr.)
Hanley, Edward B. (Lib.Arts)
Hickenbottom, Walter E. (Lib.Arts)
Hirose, Ruby (Phar.)
Hurlburt, Wendell P. Jr. (Bus.Ad.)
Jenner, Evalene (Lib.Arts)
Jensen, Howard R. (Bus.Ad.)
McKinnon, Anabel M. (Fine Arts)
Matthews, Gwladys (Lib.Arts)
Milliman, Wendell A. (Sci.)
Mills, Victor (Engr.)
Moriwake, Ernest K. (Lib.Arts)
Neville, Betty (Lib. Arts)
Oakes, Eleanor A. (Bus.Ad.)
Osterman, Henrietta (Fine Arts)
Palmer, Cecil (Bus.Ad.)
Park, Walter L. (Engr.)
Reed, Genevieve (Lib.Arts)
Robb, Marian S. (Lib.Arts)
Schindler, Ruth (Lib.Arts)
Schoenfeld, Berman J. (Lib.Arts)
Shiomi, Roy Y. (Engr.)
Silliman, Hugh G. (Engr.)
Strandberg, Herbert (Engr.)
Watkins, Dorothy E. (Fine Arts)
Wheaton, Harry J. (Bus.Ad.)
White, Dorothy E. (Lib.Arts)
Williams, Ruth H. (Lib.Arts)
Wood, Lewis C. (Engr.)
Woodmansee, Jack T. (Lib.Arts)
Zimmerman, Philo R. (Bus.Ad)

COMMISSIONS IN THE OFFICERS' RESERVE CORPS, UNITED STATES ARMY

SECOND LIEUTENANT, INFANTRY

Joseph Allen Knapp
Herman H. Meyer
Willard Philip Regan
Richardson Rowntree
William Paul Uhlmann
George Pringle Wright
Teunis James Wyers

SECOND LIEUTENANT, COAST ARTILLERY

Ralph Belford Lane
Albert Watson Martin
Arthur Edward McClarren
Theodore William Rosebaugh
Joseph Monroe Sheriff
Elwood K. Tilton
Payson Vaughan Tozier
Albert Hertzer Veitch
Edwin Merritt Watne

SECOND LIEUTENANT, AIR SERVICE

Frederick Grey Arnold
Launor McKinley Carter
James Daniel English
Miller Evans
Harry Arthur George Hopmann
Bryan M. Jacobs

HONOR GRADUATES OF THE RESERVE OFFICERS' TRAINING CORPS

Byran M. Jacobs
Herman H. Meyer

DEGREES CONFERRED AUGUST 28, 1924

BACHELOR DEGREES

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

Abell, Charles H.
Bailey, Dorothy Baily
Barlow, Lewis Leland
Blanchard, Mary
Bonnefond, Raymond Edward
Brooks, Berenice Norma
Brown, Henry James
Coventry, Edwin James
Daubenspeck, Marion Henderson
Dimmitt, Lorris Myrvin
Doane, Lucile J.
Forsyth, Frances White
Framo, Angel Devera
Ganders, Mary Louise
Gannon, Edward
Haggett, Dorothy Gene
Hatton, Ruth Genevieve
Hennessey, Mabel A.
Hoag, Clarice
Hu, Tqo-Wei
Jackson, Betty
Johnson, Anna Elizabeth
Johnson, Isyl Florence
Kelley, Curtis
Knapp, Joseph Allen
Lathrop, Alice P.
Latimer, Walter B.
Lea, Dorothy Marie
Levinson, Jack Jerome
Linn, Harold A.
Liston, Edward John
Long, Agnes
McKay, Annie Laurie
Manard, Lucile Alice
Martin, Earl B.
Miller, Charlotte Elizabeth
Miller, Vera iWnona
Notkin, Natalie B.
Ochs, Martha Elizabeth
Peck, Ruth Elizabeth
Peterson, Inez H.
Phillips, Alfred Barrow
Prichard, James Milton
Schlarb, Jack
Schnasse, Gertrude
Slusher, Charlotte Bartlett
Stapleton, Margaret L.
Stewart, Paul Revere
Stixrud, Lydia Emilie
Stixrud, Thora Louise
Tucker, Wilmon Stevens
Turner, Cecilia Helen
Whitworth, Sidney Edwin

COLLEGE OF SCIENCE

BACHELOR OF SCIENCE

Cattle, Edith Agnes
Freeman, George
Rafn, Harold John
Wallace, Genelle

BACHELOR OF SCIENCE IN HOME ECONOMICS

Best, Mary Elmyra
Howard, Mabel Grace
MacLaughlin, Margaret
Smith, Janet Sarah
Stephens, Inga Agnes
Wyers, Marie

BACHELOR OF SCIENCE IN CHEMISTRY

Damerell, Vivian Richard

BACHELOR OF SCIENCE IN NURSING

Parson, Maude

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Campbell, Marjorie Maude
Hammond, Lester Carolyn
Keller, Bertha Mae
Schnitzlein, Anita

BACHELOR OF SCIENCE IN ZOOLOGY

Campbell, Robert Andrew

SCHOOL OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

Asp, Florence Elvina
Chumlea, Leland H.
Dahl, Florence
Deits, Harry Lou
Ernest, Robert Roy
Goodrich, Haven Ginn
Goon, Lillian
Heske, Carrol Michael
Hornstra, Fred H.
Horst, J. Hazel
Kraft, Marjorie Gertrude
Rogers, Lillian M.
Sharp, Mary Corts
Sjaastad, Helga
Snyder, Ida Mae
Sorensen, Harry Daniel
Larsin, Josephine
Levy, Tony W.
Louden, Russell
McBride, Kathleen
McCorkill, Minnie
Madden, Helen Imogene
Mielke, Grace
Millican, Harold Alexander
Peterson, Grace Howard
Quass, Mabel Martin
Redford, Walter
Sowers, Iva Lucile
Sparling, Robert
Staten, Mildred Isabelle
Stone, Mildred Cecilia
Young, Amie Olive

BACHELOR OF SCIENCE IN EDUCATION

Booker, Fay
Danner, Earl Young
Erickson, Archie
Kennedy, Katherine Bernice
Shumway, George Alfred
Sullivan, Robert
Warner, Genevieve
Whitmore, Doris Grace

COLLEGE OF FINE ARTS

BACHELOR OF FINE ARTS

Campbell, Helen Day
Harris, Fred Orrin
Stacy, Virginia

BACHELOR OF MUSIC

McKay, Francis Howard
Norford, Genevieve
Slawson, Maude M.
Swenson, Elaine Isabelle

BACHELOR OF ARTS IN DRAMATIC ART

Davis, Mercie Irene

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Nelson, Carl Victor

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Arzaga, Flaviano

COLLEGE OF PHARMACY

PHARMACEUTICAL CHEMIST

Alexander, Floyd M.

BACHELOR OF SCIENCE

Barron, Dale

COLLEGE OF BUSINES ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION

Beers, Norman Alwyn
Bray, Frank Nathan
Brazier, Donald
Brennan, Robert Addison
Capen, Donald F.
Carlson, Wilma Alice
Carter, Charles John
Englund, Adoll Burt
Gaidsick, Harold George
Haimo, Myron Bernard
Hall, Edward Barton
Hamilton, Dorothy
Harper, Clarence P.
Hinman, Chester A.
Horsley, Frank Sears
Kocher, Virgil I.
Liang, Ching-Cheun
Linn, Robert Donald
Loewer, Charles Hastings
McElroy, Jennie B.
Miles, John Hunter
Paup, Everett Oliver
Quanstrom, Ellen Marie
Roemer, Albert John
Rohrer, Harvey Vaughn
Stillman, Marietta
Swalle, George
Wann, Arva W.

SCHOOL OF LAW

BACHELOR OF LAWS

Law, Charles H.
Schmitt, Tessie Margaruita

SCHOOL OF JOURNALISM

BACHELOR OF ARTS IN JOURNALISM

Bennie, Alice

LIBRARY SCHOOL

Jones, Mary Elizabeth

GRADUATE DEGREES

GRADUATE SCHOOL

MASTER OF ARTS

Elizabeth Mary Andrews (History)
A.B., Whitman College, 1920
Thesis: Fort Spokane and Spokane House

Ralph Droz Casey (Political Science)
A.B., University of Washington, 1913
Thesis: A Consideration of Propaganda with a Discussioln of Some of its Dangers and Abuses

Floyd Augustine Cave (Political Science)
A.B., University of Washington, 1923
Thesis: The Theory of the Nonpartisan Nomination and Election of State Judges

Frank Otterbein Evans (Political Science)
A.B., Whitman College, 1906
Thesis: A Study in Elimination of Students from Mount Vernon High School

William Gellermann (History)
A.B., University of Washington, 1921
Thesis: Sherman's Invasion and Ruination of the South

Clarence Edwin Hagie (Education)
Ph.B., Iowa Wesleyan University, 1913
Thesis: The Administration of Credit for Participation in Extra-Curricular Activities in American Secondary Schools

Elizabeth M. Macdonald (Spanish)
A.B., University of Oregon, 1918
Thesis: The Madrid of Mesonero Romanos

Winifred Ida Maude McGill (English)
A.B., McGill University, 1809
Thesis: A Study of thte Spirit of thte Work of Edmund Spenser

May Belle Pickett (History)
A.B., University of Washington, 1923
Thesis: Forty Years on Bellingham Bay

Nettina Louise Strobach (English)
B.L.I., Emerson College, 1921
Thesis: Four One-Act Plays

Esther Van Horn (English)
B.Ed., University of Washington, 1920
Thesis: The Social Aspect of William Makepeace Thackeray

Evelyn Faye Wilson (History)
A.B., Beloit College
Thesis: A Study of the Critical Period of the Reformation in Scotland

MASTER OF SCIENCE

Nancy Bayley (Psychology)
B.S., University of Washington, 1922
Thesis: Performance Tests for Three, Four and Five Year Old Children

Ruby May Roberts (Bacteriology)
B.S., University of Washington, 1922
Thesis: The Relation of Ocean Slime to Fouling of Ship Bottoms

Earl Theodore Brown (Physics)
B.S., University of Washington, 1918
Thesis: Change of Resistance of Conductor Exposed to an Electric Field

Clair Arthaud Hannum (Zoology)
B.S., University of Washington, 1923
Thesis: Anatomy of the Millipede Chonaphe Armatus

Hilding Everett Johnson (Chemistry)
B.S., University of Washington, 1923
Thesis: The Plasticity and Viscosity Relationships of Some Ceramic Materials

Kirsten Larssen Newberry (Physics)
B.S., University of Washington, 1919
Thesis: Loads to be used on Various Suspended Track Cables

Frederick William Schroeder (Chemistry)
A.B., Central Wesleyan College, 1919
Thesis: A Study of Sillimanite as a Refractory

Frank John Studer (Physics)
A.B., University of British Columbia, 1921
Thesis: The Fluorescence of Mercury Vapor

MASTER OF SCIENCE IN MINING ENGINEERING

John Amsden Nuckols
E.M., Montana State School of Mines, 1922
Thesis: The Effect of Screen-Sized Feed on the Concentration of Coal on a Table

MASTER OF BUSINESS ADMINISTRATION

Herald Ray Clark
A.B., Brigham Young University, 1918
Thesis: A Study in a Bank Failure

George Washington Hines
A.B., Howard University, 1909
Thesis: Branch Banking in the United States

DOCTOR OF PHILOSOPHY

Mildred Clara Struble
A.B., University of Washington, 1917
M.A., University of Washington, 1920
Thesis: A Critical Edition of Ford's *Perkin Warbeck*

NORMAL DIPLOMAS

UNIVERSITY FIVE-YEAR NORMAL DIPLOMA

Abell, Charles H.
Asp, Florence Elvira
Barron, Dale H.
Best, Mary Elmyra
Booker, Fay
Bray, Frank Hathan
Brooks, Bernice Horma
Campbell, Helen Day
Campbell, Marjorie Maude
Chumlea, Leland H.
Coventry, Edwin James
Dahl, Florence
Danner, Earl Young
Daubenspeck, Marion Henderson
Deits, Harry Lou
Dimmitt, Lorris Myrvin
Doane, Lucile J.
Ernest, Robert Roy
Erickson, Archie
Ganders, Mary Louise
Goodrich, Haven Ginn
Goon, Lillian
Heske, Carroll Michael
Hagerty, Nellie
Haggett, Dorothy Gene
Hallam, Claude
Hammond, Lester Carolyn
Hatton, Ruth Genevieve
Hennessey, Mabel A.
Hoag, Clarice
Horst, J. Hazel
Howard, Mabel Grace
Jackson, Betty
Johnson, Fannie
Johnson, Isyl Florence
Keller, Bertha Mae
Kelley, Curtis
Kennedy, Katherine Bernice
Kraft, Marjorie Gertrude
Larsin, Josephine
Lea, Dorothy Marie
Levy, Tony W.
Long, Agnes
Louden, Russell
McBride, Kathleen
McKay, Annie Laurie
MacLaughlin, Gray Elizabeth
MacLaughlin, Margaret
MacNaughton, Ellen
Madden, Helen Imogene
Manard, Lucille Hele n
Marsh, Urma Lillian
Martin, Earl B.
Meyer, Walter Charles
Mielke, Grace Eva
Miller, Charlotte Elizabeth
Miller, Vera Winona
Millican, Harold Alexander
Norfolk, eGnevieve
Palmer, Carolyn Richardson
Peterson, Grace Howard
Peterson, Inez H.
Phillips, Alfred Barrow
Prichard, James Milton
Quass, Mabel Martha
Redford, Walter
Roaney, Marland
Roemer, Albert John
Schnasse, Gertrude
Schnitzlein, Anita
Sexsmith, Georgia
Shumway, George Alfred
Sjaastad, Helga
Slawson, Maude M.
Slusher, Charlotte Bartlett
Smith, Janet Sarah
Snyder, Ida Mae
Sowers, Iva Lucile
Stapleton, Margaret
Staten, Mildren
Stephens, Inga Agnes
Stixrud, Lydia Emelie

Stixrud, Thora Louise
Stone, Nellie Cecialia
Sullivan, Robert Edward
Swanson, Florence Lillian
Swenson, Elaine Isabelle
TeeGarden, Chester
Thomas, Margaret
Turner, Cecilia Helen
Wann, Arva W.
Warner, Genevieve
Welts, Richard Opdyke, Jr.
Whaley, Frances Carlisle
Whitmore, oDris Grace
Willoughby, Alice Beryl
Wyers, Marie
Young, Annie Olive

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

Framo, Angel Devera

UNIVERSITY LIFE DIPLOMA

Baxter, Kirk H.
Bonner, Gertrude eGraldine
Brotnov, Marguerite
Carlson, Hulda Margaret
Cleland, Faith
Cook, Jennie Nixon
Crowder, Harriet Louise
Drammann, Marporie Luse
Davies, Violet
Enger, Olive M.
Ensley, Talitha Eldora
Erspamer, Frank A.
Ettinger, Dorothy
Freeman, George Walker
Griffith, Ruth Armstrong
Hall, Lucia Eloise
Henderlite, Claude Elmer Victor
Irwin, John Ivan
James, Marjorie Faulkner
eJnsen, Marion Gullette
Jones, Ella aKtherine
Jones, Margaret Slater
Kellogg, George Albert
Kizer, K. B.
Lash, Frederick Merrick
Luccock, Harriet O'Niel
Myer, Thelma Anna Cecelia
Peterson, Anita May
Powers, Anna Maria
Robe, Vivian Moore
Sanden, Arthur G.
Santee, Eva
Sheahan, Myrtle
Shirkey, Emily Frances
Shumway, Ruth
Stevens, Theodore George
Tachell, Maude
Thomas, Gertrude Marion
Wakelee, Eva E.
Warne, Ada Mary
Wassberg, Clarence Edward
Watson, Jean Ferguson
Weaver, Grace
Welts, Florence Aurelia
Werby, Helena Johna
Wheeler, Verna Mae
Wood, Muriel

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

JUNE 18, 1924

†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 BON MARCHE INDUSTRIAL FELLOWSHIP

COLUMBIA UNIVERSITY FELLOWSHIP IN MINING ENGINEERING AND CHEMISTRY

Not awarded

THE SAMUEL ROSENBERG SCHOLARSHIP IN FRENCH

Miriam Remley

THE ISABELLA AUSTIN MEMORIAL SCHOLARSHIP FOR A FRESHMAN WOMAN

Not yet awarded

THE GAMMA PHI BETA SCHOLARSHIP

Margaret Wentworth

THE FREDERICK AND NELSON SCHOLARSHIPS

Franklin Miller — Borghild Flatebo

Alternates

Conrad Wahlgren — Lucille Sheppard

THE BETA GAMMA SIGMA SCHOLARSHIP

Benjamin J. Sickler

THE CLIMAX LOCOMOTIVE COMPANY SCHOLARSHIP IN FORESTRY

Allen E. Thompson

THE VENINO SCHOLARSHIP IN MUSIC

Marian Evans

THE MU PHI EPSILON SCHOLARSHIP IN MUSIC

Not awarded

THE JUDGE ALFRED BATTLE PRIZE IN PUBLIC SPEAKING AND DEBATE

S. Harold Morford — Lawrence Seltzer

THE JUDGE KENNETH MACKINTOSH PRIZE IN DEBATE

Chester A. Lesh — Claude J. Woodworth

THE E. F. BLAINE PRIZE IN ORATORY

Paul J. Coughlin

FRATERNAL ORDER OF EAGLES PRIZE

Paul J. Coughlin — Lawrence Seltzer

THE PHILO SHERMAN BENNETT ESSAY PRIZE IN POLITICAL SCIENCE

Ralph Gundlach

See page 15.

THE CARSTENS AND EARLES ESSAY PRIZES IN BUSINESS ADMINISTRATION

Fred Emil Berquist Douglas Whitcomb

Allan G. McLean

THE CHARLES H. BEBB PRIZE IN ARCHITECTURE

William B. Glynn

THE AUBURN CLAY WORKS PRIZE IN ARCHITECTURE

Richard J. Pearce Henry Browne Hoover

John Theodore Jacobsen

THE STATE PARK PRIZE IN ARCHITECTURE

Arthur H. Waldo

THE JUDGE THOMAS BURKE PRIZES FOR EXCELLENCE IN FRENCH

Florentine Virginia Faubert Minnie Brown

THE N. PAOLELA GOLD MEDAL FOR EXCELLENCE IN ITALIAN

Julius Guintoni

THE LEHN AND FINK GOLD MEDAL FOR PHARMACEUTICAL ESSAY

Arnold John Lehman

THE JUNIOR MILITARY PRIZE

John Ralph Blum

Prizes not awarded

THE JAGGARD PRIZE IN LAW

THE BURKE CHINA CLUB PRIZE

THE DAN CLOUD MEMORIAL PRIZE

THE A. MERLINO PRIZE

Aaguard, Estella, Bus.....Seattle
Aalbu, Dorothy, LA.....Everett
Abakumoff, K. V. Engr.....Seattle
Abbott, Robert C, Bus.....Seattle
Abbott, Susan, LA.....Seattle
Abel, Fred K, Law.....Montesano
Abel, George F, LA.....Montesano
Abernathy, Kenneth M, LA.....Wenatchee
Abrahamson, Jacob, Bus.....Seattle
Abrams, Evelyn V, LD, Sci.....Seattle
Acena, Monico, Bus.....Philippines
Ackerman, Gilbert J, Engr.....Seattle
Acklen, Joseph W, LD, LA....Juneau, Alas
Ackley, Elene, LA.....Tacoma
Ackley, W. Lee, FA.....Vancouver
Adams, Carlton F, Engr.....Seattle
Adams, S Catherine, FA.....Arlington
Adams, Clyde B, Sci.....Richmond Beach
Adams, Edward E, LA.....Spokane
Adams, Evert, Bus.....Seattle
Adams, Frances A, Edu....Bozeman, Mont.
Adams, Henrietta M, Sci.....Seattle
Adams, Howard W, Bus.....Seattle
Adams, John R, LD, BA.....Seattle
Adams, Joseph Peter, LA.....Seattle
Adams, Leta Zoe, LA.....Seattle
Adams, Lilliane P, LA.....Paris
Adams, Rachel E, LA.....Sumner
Adams, Sarah E, Sci.....Seattle
Adams, Sidney, Sci.....Peshastin
Adan, Primitivo, Engr.....Philippines
Ademino, John, Bus.....Cle Elum
Adkins, Helen, LA.....Seattle
Afrolan, Adriano, Sci.....Philippines
Agee, Dora Leola, LA.....Blaine
Ahrens, Erich A, Grad.....Tacoma
Ahrens, Russel, Bus.....Farmington
Aiken, Vearle, FA.....Lake City
Aitchison, Edwin P, Bus.....Spokane
Aitchinson, Helen, LA.....Spokane
Aikens, Marian L, LA.....Walla Walla
Ajax, Marjorie Helen, Phar.....Seattle
Akin, Margaret A, Grad.....Seattle
Akishin, Alexander LD, LA.....China
Albaugh, Dorothy, LA.....Seattle
Alben, Edward A, Engr.....Vancouver
Albertson, Lois, FA.....Seattle
Albin, Celeste I, LA.....Portland
Albin, Robert L, LA.....Mercer Island
Albin, Vera G, LA.....Portland
Albin, Virginia, LA.....Seattle
Alcabedas, Buenaventura, LA...Philippines
Alderson, Vera, Sci.....Seattle
Aldridge, Edwin, Bus.....Seattle
Aldwell, Doreen, LA.....Port Angeles
Aldwell, Frederica, LA.....Port Angeles
Alexander, Paul J, LD, LA.....Seattle
Alexander, Phyllis, LD, FA....Bryn Mawr
Alexeeff, Alexander V, Engr.....Seattle
Allen, Albert A, Bus.....Seattle
Allen, Barbara, LA.....Yakima
Allen, Mrs. Capitola, LA.....Seattle
Allen, Edith, LA.....Seattle
Allen, Edith Anne, LA.....Seattle
Allen, Edna, Phar.....Selah
Allen, Gordon C, UD, For.....Seattle
Allen, Harvey S, LA.....Spokane
Allen, Kathryn, LA.....Seattle
Allen, Mary Fern, Sci.....Seattle
Allen, Maxine Lois, FA.....Seattle
Allen, Merritt, LD, LA.....Toppenish
Allen, Philip T. FA.....Seattle
Allen, Rhoda Margaret, Spec, Sci....Seattle
Allen, Russell S, Engr.....Milltown
Allen, Ruth F, FA.....Seattle
Allison, Elton R, Sci.....Centralia
Allison, Katherine, LA.....Seattle
Almquist, Eddie E, LD, LA.....Seattle
Almvig, Helen O, LA.....Everett
Alston, John Francis, LA.....Everett
Altman, William W, Bus.....Bellingham
Alyea, Leslie, LD, For.....Seattle
Ames, Anita, LA.....Seattle
Ames, Florella, LA.....Marysville
Ames, Percy G, LD, BA.....Everett
Ames, Willis, LA.....San Fran, Cal
Amey, Harry E, LA.....Alderwood Manor
Anches, Leah, LA.....Seattle
Anders, Irene, LA.....Seattle
Andersgaard, Amber A, Sci.....Comstock
Anderson, Agnes R, Edu.....Seattle
Anderson, Alice M D, FA....Walla Walla
Anderson, Alma C, LA.....Everett
Anderson, Alvin, Bus.....Bellingham
Anderson, Andrew Leonard, Sci....Hoquiam
Anderson, Anton L, LA.....Creston
Anderson, Arthur A, Law.....Seattle
Anderson, Audrey, LA.....Seattle
Anderson, Berger, Soph, Engr.....Seattle
Anderson, Bernard A, For..Dassel, Minn.
Anderson, Carl S, Bus.....Seattle
Anderson, Clarence E, Bus.....Seattle
Anderson, Clarence P, Bus..Evanston, Wyo.
Anderson, David G, Engr..Vancouver, B.C.
Anderson, David, Engr.....Seattle
Anderson, Donald G, Bus.....Aberdeen
Anderson, Dorothy Isabell, LA.....Seattle
Anderson, Edith L, LA.....Spokane
Anderson, Edward, Bus.....Seattle
Anderson, Edward Quinn, LA.....Olympia
Anderson, Edwin L, Bus.....Seattle
Anderson, Eleanor L, Bus.....Seattle
Anderson, Eleanor Sue, LA.....Seattle
Anderson, Elizabeth J, LA.....Tacoma
Anderson, Elizabeth M, LA.....Seattle
Anderson, Ermont, LA.....LaCenter
Anderson, Esculene, LD, LA.....Seattle
Anderson, George D, Bus.....Everett
Anderson, Gordon E, Fish.....Klaber
Anderson, J Harold, LA.....Seattle
Anderson, Harold W, Min.....Chehalis
Anderson, Harold W. LA.....Seattle
Anderson, Helen G, LD, LA.....Seattle
Anderson, Herbert H, Engr.....Seattle
Anderson, Ida B, LA.....Oneida
Anderson, Ila E, LA.....Woodland
Anderson, John Edgar, Sci.....Harrington
Anderson, Katherine, La.....Seattle
Anderson, Katherine, FA.....Anacortes
Anderson, Larz, LA.....Seattle
Anderson, Lillian, Sci.....Anacortes
Anderson, Lloyd A, Engr.....Roy
Anderson, Logan, Bus.....Edmonds
Anderson, Louise M, LA.....Tacoma
Anderson, Lucile, Sci.....Seattle
Anderson, Margaret, FA.....Seattle
Anderson, Maurice J, LD,BA. Anchorage, Alas
Anderson, Merrill Dean, LA.....Seattle
Anderson, Muriel, Edu.....Spokane
Anderson, Niles M, For.....Seattle
Anderson, Norman B, Sci.....Seattle
Anderson, F Raymond, Jour.....Tacoma
Anderson, Robert, FA.....Seattle
Anderson, Roy A, LA..Ketchikan, Alaska
Anderson, Russell F, Bus.....Everett
Anderson, Theresa, LD, LA.....Kent
Anderson, Valentine, FA.....Seattle
Andreas, Osborne, LA.....Lisbon, Ia.
Andreassen, Louis C, LD, For....Enumclaw
Andreev, Nicholas, Fish.....Seattle
Andrews, Clarence, Bus.....Seattle

Andrews, Harriett, Sci.....Uncas
Andrews, Joseph G, LA.....Echo, Or.
Andrews, Roy G, Engr.....Bellingham
Andrews, Robert Marshall, Engr....Tacoma
Andrews, Shirlee Burke, For....Owen, Wis.
Andreys, Elizabeth M, Grad....Echo, Oro
Angle, Herbert G, UD, BA.....Shelton
Anglea, Thomas Hayes, LD, BA....Seattle
Angst, Laura, Grad.....Chehalis
Ankele, Felicitas, UD, Educ.....Seattle
Annett, Kenneth Keith, Bus.....Hoquiam
Anthes, Cora Leola, FA.....Everett
Antonova, Helen A, Min.....Seattle
Appel, Clarence William, LA.....Seattle
Appelgate, Kenneth W, Sci.....Everett
Appelgren, Fredrik W, Fish.....Seattle
Aquino, Juan P, UD, BA.....Philippines
Arai, Clarence T, LA.....Seattle
Arai, Hohei, Engr.....Seattle
Arai, Kichio Allen, UD, FA.....Seattle
Arai, Tom F, Bus.....Seattle
Archer, Arden F, Bus.....Walla Walla
Arciaga, Moses, LD, LA....Moscow, Ida
Arend, Harry O, Law.....Spokane
Arensten, Harold, Bus.....Seattle
Arilzumi, Kiyo, Phar.....Seattle
Arima, John K, Engr.....Auburn
Arlander, Ruth LA.....Seattle
Armeau, John, Sci.....Spokane
Armin, Julia B, LA.....Seattle
Armitage, Harry H, Bus.....Yakima
Armitage, Rirhard B, LA.....Yakima
Armtsrong, Everett, Phar.....Spokane
Armstrong, William Grant, LA...Chehalis
Armstrong, Homer B, Bus.....Seattle
Armstrong, Hubert C, LA.....Grandview
Armstrong, Margaret, LA.....Seattle
Armstrong, Nelson B, LA.Browmanville, Ont
Armstrong, William L, Bus.....Spokane
Armstrong, Wilmot, Bus.....Everett
Arnell, Rupert E, Sci.....Auburn
Arneson, Gladys, FA.....Seattle
Arneson, Gus, LA.....Puyallup
Arneson, Violette, LA.....Puyallup
Arnold, Evert F, LA.....Seattle
Arnold, Gilbert Cyrus, Bus.....Seattle
Arnold, Harry A, Bus.....Seattle
Arnold, John Albert, UD, LA....Stellacoom
Aronin, Anna, LA.....Seattle
Arthur, Jean, FA.....Seattle
Artus, George, Sci.....Seattle
Ashley, Paul P, Law.....Seattle
Ashley, Wanda J, LA.....Seattle
Ashwell, Leonard W, Bus.....Seattle
Asp, Nogi A, Sci.....Seattle
Aston, Constance, LA.....Tacoma
Atkins, Frank D, LA.....Seattle
Atwell, Ora C, Engr.....Seattle
Aubert, William P, Phar.....Pt Townsend
Audett, Theo B, Law.....Seattle
Augerson, Harold W, Sr, Engr.....Seattle
Augustine, J Webster, LA.....Monroe
Aumann, Dorothy M, LA.....Pt Angeles
Aust, Ruth, Sci.....Spokane
Austin, George R, Grad.....Seattle
Austin, Grannis H, LD, LA.....Monroe
Austin, Helen, LA.....Olympia
Austin, Helen, LA.....Spokane
Austin, Mary Cathern, LA.....Seattle
Avery, Dorotheda, FA.....Seattle
Avery, Dorothy, FA.....Seattle
Axe, Erwin F, For.....Seattle
Ayres, Merrill S, BA.....Seattle

Babbitt, Ardsley, LA.....Seattle
Babbitt, Frederic, Engr.....Seattle
Bachelder, Robert C, Bus.....Everett
Bachman, Paul, Grad.....Seattle
Bachman, Raymond, LA.....Spokane
Bachland, John Jr, LA.....Seattle
Bacon, Stephen C, Engr.....Seattle
Badgley, Charles H, LD, BA.....Seattle
Bagasan, Jaun Z, Bus.....Philippines
Bagby, Luretta D, LA.....Billings, Mont.
Baggott, Renaldo A, FA.....Wenatchee
Bagwill, Thomas V, LA.....Anyox, BC
Bahnsen, Maurice D, Bus.....Seattle
Bailey, Arthur E, Law.....Seattle
Bailey, Henry E, Bus.....Seattle
Bailey, Lawrence I, LA.....Seattle
Baird, Charles Glenn, Grad.....Snohomish
Baird, Jean, LA.....Seattle
Baker, Athol, Uncl, LA.....Naches
Baker, Dorothy, FA.....Seattle
Baker, Edward, For.....Redmond
Baker, Ella L, Bus.....Seattle
Baker, Everett Atwater, LA.....Yakima
Baker, Harold Valentine, Bus....Puyallup
Baker, Helen Burdett, LA.....Seattle
Baker, Helen M, LA.....Seattle
Baker, Irene, LA.....Seattle
Baker, Jane Ayres, Jour.....Yakima
Baker, John, For.....Redmond
Baker, Mary H, Edu.....Butte, Mont.
Baker, Mildred, Phar.....Centralia
Baker, Samuel G, Engr.....Seattle
Bakes, Margaret Eleanor, LA.....Tacoma
Balch, Albert S, Bus.....Blaine
Baldwin, Wilden H, LA.....Seattle
Ball, Fred L, Sci.....Yakima
Ball, John K, Engr.....Seattle
Ballaine, Francis K, LA.....Seattle
Ballain, Wesley C, Sci.....Bellingham
Ballard, Dewey P, Bus.....Auburn
Ballard, Elsie, LD, FA.....Buckley
Ballard, Louise E, FA.....Seattle
Balsiger, Arlene Anna, FA.....Ione, Or
Balsiger, Helen Margaret, FA..Ione, Or
Banks, William C, LD, LA.....Yakima
Batlhaser, Gerald V, LA.....Seattle
Balzer, Elsie Margaret, Sci.....Spokane
Banker, Gordon F, Bus.....Seattle
Banker, Grant B, Bus.....Winthrop
Baptista, Nicolas S, Sci.....Philippines
Barbee, Richard E, Bus.....Seattle
Barber, Helen, Bus.....Seattle
Barber, H Marguerite, LD, LA.....Cheney
Barclay, Maisie, LA.....Ontario, Cal
Bard, Betsy, FA.....Seattle
Bard, Burton E, Mines.....Seattle
Bardson, Otto, Grad.....Blaine
Barden, Claudia S, LA.....Seattle
Bare, Margaret, LA.....Tacoma
Bargreen, Howard S, Bus.....Everett
Barker, Carroll D, Sci.....Seattle
Barker, Robert W, Engr.....Seattle
Barkey, Annette Louise, LA.....Seattle
Barkley, Barney Barton, Engr....Ellensburg
Barlow, Marie F, LA.....Bellingham
Barlow, Marie S, Sci.....Issaquah
Barlow, Marvin K, Bus.....Bellingham
Barnaby, Joseph T, Uncl, Fish.....Seattle
Barnard, Louise, Sci.....Seattle
Barnes, Chester F, LD, LA.....Seattle
Barnes, Clifford, Sci.....Goldendale
Barnes, George H, For.....Rossland, BC
Barnes, Lucy R, Grad.....Seattle
Barnett, Grace K, FA.....Everett
Barnett, William A, LA.....Seattle
Barney, H Esther, LD, Sci.....Veradale
Barnhart, Florence Jane, LA.....Tacoma
Barnhart, Margaret, FA.....Seattle
Barnhart, Richard Devor, LA.....Spokane
Barnhart, Thomas F, LD, LA....Snohomish
Barnhill, Frances L, LA.....Yakima
Barquist, Walter C, Min.....Seattle
Barquist, William S, Min.....Seattle
Barr, Jean, Edu.....Bellingham
Barr, Mrs William Wallace, Grad...Seattle
Barragar, Harvey, LD, LA.....Seattle

Barrett, Clara Etta, LA.....Inkom, Ida
Barrett, Emma B, UNCL.....Seattle
Baron, Carolyn, Sci.....Seattle
Barron, Dorothy Fraser, FA.....Seattle
Barrow, Gwendoyln, LA.....Machias
Berry, John Joseph, Engr.....Spokane
Barry, Kirk, Engr.....Snoqualmie Falls
Barteau, Gordon, Min.....Seattle
Bartells, Phillip Drowne, Bus.....Seattle
Barthelemy, Lillian, FA.....Seattle
Barthalet, Donnell, Engr.....Yakima
Bartles, M Virginia, Sci.....Seattle
Bartlett, Henry C, LA.....Seattle
Bartley, J Leland, Uncl, LA.....Zillah
Bartolome, Gregorio F, LD, Fish....Seattle
Bascom, Hartzell W, Law.....Monroe
Bash, Francis C, LD, Sci.....Seattle
Bash, Mary I, Grad.....Seattle
Bashor, Thurston C, Law.....Seattle
Bassage, Harold E, LA.....Seattle
Bassford, Lois Elizabeth, LA.....Seattle
Batie, Carmen A, LA.....Twisp
Baumann, Carolyn Margaret, LA..Ritzville
Baumgartner, Grace, Grad.....Seattle
Baunsgard, Lee, Engr.....Seattle
Bautista, Enrique, Sr, Engr....Philippines
Bautista, Felino L, Uncl, For....Philippines
Bautista, Marcelino, Edu.....Philippines
Bayless, Marion, Sci.....Seattle
Bayley, Emery P, LA.....Seattle
Bayley, Madeline V, LD, FA.....Seattle
Bayley, Mildred, FA.....Seattle
Bayley, Nettie E, LA.....Seattle
Bayliss, Lawrence A, Engr.....Seattle
Beager, Laura, Bus.....Seattle
Bean, Gilbert R, LA.....Spokane
Bean, Minnie D, UD, Educ.....Tacoma
Beardsley, Arthur S, Grad.....Seattle
Beasom, Rev James P, Uncl,LA....Seattle
Beatty, Howard William, Bus.....Seattle
Beatty, Vera, Bus.....Seattle
Beatty, Vera J, Edu.....Seattle
Beaty, Josephine A, Uncl, FA.....Seattle
Betchel, Eldred R, FA.....Seattle
Beck, Albert Walter, Engr....Basin, Mont
Beck, George Karl, Engr.....Basin, Mont
Beck James B, LA.....Seattle
Beck, Jean, Sci.....Seattle
Beck, Nemias Bramiette, LA.....Seattle
Beck, Robert Edwin, Phar.....Tacoma
Beck, William H, Bus.....Seattle
Becken, John C ,Jr, Bus.....Hillsboro, Or
Becket, Ethelyn May, LA.....Seattle
Becket, Hugh M, Edu.....Seattle
Becket, Welton, FA.....Seattle
Beckett, Eleanor May, LA.....Seattle
Beckmann, Perry H, Engr.....Asotin
Bedell, Mary E, Grad.....Seattle
Bedke, Madge, LA.....Oakley, Ida
Beebe, Dorothy, FA.....Seattle
Beede, Alan F, Bus.....Seattle
Beek, John Jr, Sci.....Seattle
Beeks, William T, Bus.....Seattle
Beers, Frank Troxell, LA.....Du Pont
Beers, Gwendoyln, LA.....Seattle
Beers, Margaret, Sci.....Du Pont
Begerstrom, Edna, Bus.....Seattle
Beggs, Katherine, LA.....Spokane
Behan, James E, Bus.....Seattle
Behrends, Bonita, Bus.....Seattle
Behrens, Audrey M, LA.....Seattle
Behrens, Eunice C, LA.....Seattle
Belknap, Stephens Mae, LA.....Seattle
Bell, Burnby, LA.....Astoria
Bell, Carl Spurgeon, Grad.....Seattle
Bell, Clara Morrison, Sci.....Potlach
Bell, Mrs Fannye G, Grad.....Seattle
Bell, Francis, LD, FA.....Boonville, Mo
Bell, Hazel, LA.....Seattle
Bell, Mildred, Sci.....Yacolt
Bell, Milo C, Engr.....Seattle
Bellamy, Tennys, FA.....Seattle
Bellazzi, Roberta, LA.....Seattle
Bellis, Harold, LD, FA.....Seattle
Bellman, Vernon A, Bus.....Aberdeen
Bellosillo, Leon A, LA.....Philippines
Bender, Edwin B, Bus.....Tacoma
Bender, Lester A, Bus.....Tacoma
Bedetson, Selma A, LA.....Aberdeen
Benedict, Rufus J, Bus.....Puyallup
Benedum, Clara LA.....Veradale
Benedum, Darwin, Sci.....Veradale
Benham, Caroline, LA.....Seattle
Benham, Dorothy, LA.....Seattle
Benham, Merton R, LA.....Seattle
Benjamin, George Thomas, Min.....Seattle
Beniiro, Antolo de Lara, LA....Philippines
Benner, Lawrence, Bus.....Oak Harbor
Bennett, Constance, Bus.....Seattle
Bennett, Dwight, Edu.....Seattle
Bennett, Lawrence M, LA.....Grandview
Bennett, Mrs Lee H, Grad.....Seattle
Bennett, Lillian V, Sci.....Seattle
Bennett, Lois Elaine, FA.....Seattle
Bennett, Sumner W, Bus.....Fall City
Bennetts, Alice L, LA.....Tacoma
Benson, Richard, Grad.....Seattle
Benson, Rodger W, Bus.....Seattle
Benson, William Ronald, Engr.....Seattle
Bentley, Charles S, Phar.....Spokane
Bentley, Galen W, LD, FA.....Seattle
Bentley, Gladys A, LA.....Seattle
Bentley, Nora M, LA.....Seattle
Benveniste, Isaac E, Phar.....Seattle
Bereiter, Catherine, Sci.....Seattle
Bereiter, Marvel, LA.....Seattle
Berezovsky, Cyril, Engr.....Seattle
Berezovsky, George, Fsh.....Seattle
Berg, Axel K, Bus.....Seattle
Berg, Wilbur E, Bus.....Tacoma
Bergdal, Eyvind, Engr..Anchorage, Alaska
Berge, Sigfred F, Engr.....Everett
Bergeson, Sylvia Luzetta, LA.....Seattle
Bergh, Grace, Sci.....Seattle
Bergland, Helen D, FA.....Seattle
Bergland, N William, Engr.....Newcastle
Bergman, Eunice M, Sci.....Seattle
Bergman, Harry, LD, LA.....Seattle
Bergstrom, Conrad, FA.....Hoquiam
Bergstrom, Theodore, Engr.....Seattle
Berlin, Marie, LA.....Kent
Bernard, Alex, Engr.....Bremerton
Bernhard, Carl, Engr.....Seattle
Bernards, Margaret M, LA.Forest Grove, Or
Bernhardt, Carl W, LD, Fish....Seaview
Berolski, Edward M, LA.....Bellingham
Berry, Roy Neil, Engr.....Tacoma
Berry, Theodore, LA.....Seattle
Bertram, Ernest O, LD, BA.....Seattle
Best, Frank E, Sci.....Seattle
Best, Walter C, Bus.....Seattle
Bethel, Virginia Ramsay, LA....Aberdeen
Bettinger, Dawn, FA.....Edmonds
Betts, Kennedy, LD, LA.....Seattle
Betz, Gerard, LA.....Seattle
Beuschlin, Warren L, Grad.....Seattle
Beutel, Margaret, LA.....Tacoma
Beveridge, Alton V, Bus.....Seattle
Bewley, Esther G, LD, LA.....Seattle
Beyers, Clifford F, For.....Snohomish
Beymer, Ralph, UD, LA.....Seattle
Bibee, Georgia C, Sci.....Seattle
Bice, Forrest D, LD, Sci.....Ferndale
Bickford, Donald D, LA.....Centralia
Bidlake, Florence, FA.....Seattle
Biehn, Stanley, LD, Sci.....Yakima
Bigelow, Dwight E, Bus.....Seattle
Bigelow, Marjorie, LA.....Seattle
Biggar, Edson Boyd, Bus.....Seattle

Biggar, John Hall, Jr, Bus.....Seattle
Biggers, Ruth C, FA.....Seattle
Biggerstaff, John S, Grad....Portland, Or
Biggs, Richard, Engr.....Seattle
Biles, Julia Frances, Sci.....Omak
Billesbach, Martin M, Jour.....Winlock
Billings, Jack, Fresh, Engr.....Seattle
Bindercup, Hortense, LA.....Portland
Bingham, Martin J, Bus.....Seattle
Binnings, Mildred O, Grad.....Seattle
Bird, Frances E, LA.....Seattle
Bird, Robert, LA.....Seattle
Birkeland, Paul, Bus.....Bremerton
Bishop, Bert, Bus.....Clarkston
Bishop, Edward, Uncl, BA.....Seattle
Bishop, Helen A, Sci.....Seattle
Bishop, Mary Ann, Uncl, LA..Portland, Or
Bishop, Vivian, Sci.....Everett
Black, Dorothy, LA.....Seattle
Black, Elizabeth, Grad.....Ellensburg
Black, John A, Engr.....Wenatchee
Black, Julia Kathryn, LA.....Medina
Black, William Plummer, Grad....Seattle
Blackaller, Mary Louise, FA.....Seattle
Blackburn, Richard L, Grad.....Ephrata
Blain, Clarence, Bus.....Seattle
Blain, Edith M, LD, LA.....Seattle
Blaine, Louisa H, LA.....Seattle
Blair, Sara, FA.....Seattle
Blair, William J, Phar.....Seattle
Blake, Maxine W, LA.....Seattle
Blakely, Helen N, Sci.....Butte, Mont
Blanchard, Fred C, LA....Skagway, Alaska
Blanchard,Leonora, Phar.....ClcElum
Blando, Patricio, Law.....Seattle
Blatherwick, Leonard N, FA..Quanah, Tex
Blaxhill, Verna H, LA.....Hull, Eng
Bleecker, Dorothy, LA.....Seattle
Blethen, Clarence B, Bus.....Seattle
Blethen, Francis A, Bus.....Seattle
Blodgett, Marian, LA.....Aberdeen
Bloom, William, LD, LA.....Sharon
Bloomer, Lawrence E, Sci.....Blaine
Bloomfield, E Jervis, LD, BA.Vancouver, BC
Blossom, Rosamond, LA.....Seattle
Blowers, Francis E, For.National City, Cal
Bloxom, Virginia, FA.....Seattle
Blue, Albert Winston, For.....Seattle
Blue, Ellen Eugenia,LA.....Seattle
Blugerman, Leonide, Engr.....Seattle
Blum, John R, Bus.....Seattle
Blumberg, Frank E, Engr.....Seattle
Blumenthal, Julius, Bus.....Seattle
Boardman, Benton L, LA.....Seattle
Boardman, George C, Bus..San Fran, Cal
Boardman, Mary, LA.....Spokane
Bock, Helen M, FA.....Boise, Ida
Bock, Russell, Bus.....Spokane
Bode, Arthur T, For.....Fairmont, Minn
Bodenheimer, William R, Engr.....Spokane
Bodine, Howard A, Bus.....Seattle
Boeing, E Lois, LA.....Seattle
Bogert, Madeline, LA.....Seattle
Bogstad, Ruth E, LA.....Everett
Bohan, Richard, Bus.....
Bohlander, Ted Louis, Bus.....Spokane
Bohn, Blair D, Bus.....Yakima
Boldan, Veronica, LA....Silver Bow, Mont
Bolderston, Constance B, LA..Portland, Or
Bolles, Thomas D, LA.....Seattle
Bolsover, G Stanford, Bus.....Seattle
Bolstad, Bernard, Bus.....Seattle
Bolster, William, Engr.....Seattle
Bomar, Richard, Sci.....Tacoma
Bonamy, Douglas G, For.....Seattle
Bonato, Rose Doris, FA.....Wilkeson
Bond, Albert H, Bus.....Seattle
Bond, Austin D, LD, Eng.....Seattle
Bone, Marguerite, FA.....Juneau, Alaska
Bonell, James H, Bus.....Fall City
Bonner, Ida, Sci.....Seattle
Bonnett, William B, Bus.....Seattle
Bonney, Zaidee E, Grad.....Tacoma
Booker, Paul E, Edu.....Seattle
Booker, Thomas R, Sci.....Seattle
Boomer, Frances Noreen, Sci....Sunnyside
Booth, Eugenia, FA.....Seattle
Boozer, Marjorie C, FA.....Seattle
Borah, Mrs, Juanita, Grad.....Seattle
Bordeaux, Leo Joseph, LA.....Olympia
Borland, Gretchen, FA.....Seattle
Borodin, Michael, Fsh.....Seattle
Borodin, Vera, LA.....Seattle
Borrow, Martha, Edu.....Seattle
Borst, Joseph O, Engr.....Coalinga, Cal
Bortells, Phillip D, Uncl, BA.....Seattle
Borzell, John, Bus.....Seattle
Bosco, Ray, Bus.....Vancouver
Bostwick, J Robert, Engr.....Kirkland
Bosworth, Dorothy Leah, FA.....Seattle
Bosworth, Fredric Ralph, LA.....Kirkland
Botsford, J Lawrence, LD, LA.....Seattle
Botsford, Sherwood, Engr.....Seattle
Bouck, Edna L, FA.....Sedro-Woolley
Bouck, Morley, Engr.....Sedro-Woolley
Bourlier, Perry L, Grad.....Seattle
Bouse, Earl F, Fresh, For.....Seattle
Bousfield, John L, Bus.....Aberdeen
Boutelle, Virginia S, LA.....Seattle
Bow, Kathleen, Sci.....Seattle
Bowen, Beth, Sci.....Seattle
Bowen, Edward Van, Bus.....Seattle
Bowen, Grace Louise, FA.....Bothell
Bowen, Joe, Bus.....Centralia
Bower, Ruth, LD, FA.....Butte, Mont
Bowerman, Daniel H, LA.....Seattle
Bowles, Wallace D, LA.....Seattle
Bowman, Conrad Henry, Grad.....Lynden
Bowman, Louise Morris, FA.....Camas
Bowman, Marion, LA.....Portland, Or
Bowman, William C, LA.....Seattle
Bown, Robert F, Grad.....Tacoma
Boxer, Mary Edith, LA.....Seattle
Boyd, Cleil G, Bus.....Seattle
Boyd, Dwain D, LD, BA.....Seattle
Boyd, Helen, LA.....Seattle
Boyd, Jeanette, LA.....Seattle
Boyd, Robert Jesse, Min.....Seattle
Boyden, Blaine M, LA.....Issaquah
Boyer, John Franklin, LA.....Seattle
Boyer, Virginia, Sci.....Seattle
Boyker, Maxine, FA.....Kent
Boyle, Dean G, LA.....Seattle
Boyle, Gordon L, Bus.....Everett
Boynton, Fred R, Law.....Seattle
Brackett, Lawrence, For.....Seattle
Brackett, Leroy W, Engr.....Yakima
Bradford, James M, Sci.....Seattle
Bradley, Arvid M, LA.....Seattle
Bradley, Charles A, LA.....Seattle
Bradley, Florence D, LD, LA.....Selah
Bradley, Jerome George, Engr.....Seattle
Bradley, Joseph Thomas, Bus.....Seattle
Bradley, Minnie E, Uncl, Sci.....Seattle
Bradley, Roland, LD, BA.....Selah
Bradshaw, John F, Phar.....Ellensburg
Brady, Bryant, LA.....Seattle
Brady, Culvin Ted, Engr.....Seattle
Braford, Caty J, Phar.....Seattle
Bragdon, Wynne Elizabeth, Sci.....Seattle
Brainard, Silas A, UD, BA.....Seattle
Branch, Willard H, LA.....Seattle
Brand, Frederick James, Sci..Victoria, B.C.
Brandebury, Harold E, Min.....Seattle
Brandt, Evelyn Lila, FA.....Puyallup
Branigan, Frances, LA.....Seattle
Brannon, Myrtle Jane, Edu.....Auburn
Brassington, Dorothy, LA.....Seattle

Bratcher, Carl Archie, Bus.....Pomeroy
Bratcher, Fora, Bus.....Pomeroy
Bratt, Byron, Bus.....Mercer Island
Brattain, Betty LA.....Seattle
Brattain, Ottilie H, Grad.....Seattle
Bratten, Dorothy, LA.Salt Lake City, Utah
Bray, J Harold, Bus.....Sumner
Bray, Ruth A, Edu.....Seattle
Brazel, Charles C. Bus.....Seattle
Brazell, Thomas E, Bus.....Seattle
Breen, John Robert, LA.....Seattle
Breckenridge, James T, UD. BA....Seattle
Breitigam, Clarence, LA.....Lisabeula
Brendel, Hildred, LA.....Seattle
Brennen, Gordon N, Engr.....Seattle
Brewer, Helen L, LA.....Tacoma
Brewer, R Kenneth, Bus.....Spokane
Brewer, Vincent R, Bus.....Seattle
Brickell, Charles B, Bus.....Seattle
Bricker, Ann S, Sci.....Granite Falls
Bridgman, Alfred W, LD, BA.....Vashon
Brier, Howard M, Edu.....Everett
Briggs, Clifford M, Engr.....Bremerton
Brightman, Latham, Bus.....Seattle
Brimston, Marion, Phar.....Seattle
Bringhurst, Alice C, Grad.....Seattle
Brink, Betty Ann, LD, LA....Portland, Or
Brinker, Mary Fox, LA.....Seattle
Briscoe, Jacob W, Bus....Grangeville, Ida
Britt, Westburt C, Bus.....Seattle
Britton, Cathryn, FA.....Wilbur
Brix, Dale R, Sci.....Monroe
Brix, Egbert, LA.....Tacoma
Brix, Herman, LA.....Tacoma
Brix, Theodore F, Bus.....Fresno, Cal
Brobeck, Lester F, LD, LA.....Seattle
Brobeck, Roy A, FA.....Seattle
Brody Leon, LA.....Seattle
Broeren, John N, Engr.....Prescott, Or
Broeren, Lawrence T, Engr....Prescott, Or
Bronsen, Robert, Bus.....Seattle
Bronson, Donald, LA.....Seattle
Brook, Mrs. Alice Lee, Edu.....Seattle
Brooks, Irene Mae, Edu.....Ferndale
Brooks, William Edward. Sci....Dungeness
Brooks, Winston, FA.....Wapato
Broom, Edith, Sci.....Edmonds
Broom, Lylas, LA.....Edmonds
Brossoit, Havana, LA.....Butte, Mont
Broten, Ellen Ruth, LA.....Seattle
Brown, Beatrice Ann, LA..Dickinson, N.D.
Brown Betty, LA.....Bellingham
Brown, Cecil C, UD, Sci.....Dayton
Brown, Charles L, LA.....Seattle
Brown, Davenport J, Bus.....Sumas
Brown, Edward S, Bus.....Seattle
Brown, Elizabeth, LA.....Seattle
Brown, Florinda, Edu.....Tacoma
Brown, Gordon A, Bus.....Seattle
Brown, Harold R, Engr.....Seattle
Brown, James W, Grad....Gunnison, Colo
Brown, Jane, FA.....Spokane
Brown, John E, Fsh.....Seattle
Brown, Kathryn, LA.....Seattle
Brown, Katheryne C, FA.....Tacoma
Brown, Mary Catherine, LA.....Seattle
Brown, Martin, Sr Engr.....Seattle
Brown, May L. LA.....Cleveland, Ohio
Brown, Melvin James, LA.....Puyallup
Brown, Ralph D, LA.....Seattle
Brown, Richard A, Bus.....Wallace, Ida
Brown, Sarah, Grad.....Seattle
Brown, Stephen Darden, Law.....Seattle
Brown, Stephen L, Sci.....Seattle
Brown, Vera, FA.....Tacoma
Brown, Warren Jr, Law.....Seattle
Brown, William W, Bus.....Seattle
Browne, Albert, Engr.....Seattle
Browne, Marjory Caroline, LA...Wenatchee
Brownell, Ruth, LA.....Seattle
Brownfield, Floyd K, LD, LA.....Chelan
Browning, George, Bus.....Seattle
Brownton, Sheldon, Bus....La Grande, Or
Broxon, Margaret, LA.....Monrovia, Cal
Broyles, Frances, Sci.....Seattle
Broyles, Helen Jane, LA.....Seattle
Bruce, Gordon Alexander, Uncl, Fish.Seattle
Brueggeman, William C, Engr.....Seattle
Bruncles, Fournier Paul, LA....Skykomish
Brunner, Elma, FA.....Seattle
Brunner, Eugene, Bus.....Seattle
Brusette, Rubye Ida, LA.....Arlington
Brust, Shirley K, LA.....Tacoma
Byran, Collis C, Engr.....Seattle
Bryant, Charles M, Engr....Corvallis, Or
Buchanan, Charles R, Bus.....Spanaway
Buchanan, Helen Lee, LA.....Cheney
Buchanan, John F, For.....Tacoma
Buchanan, Victor Howard, LA.....Monroe
Buck, Harry C, LA.....Seattle
Buck, Margaret, LA.....Yakima
Buckley, Frank, LA.....Seattle
Buckley, Harry, For.....Seattle
Buckley, Nancy, LA.....Seattle
Bucy, Roy T, Engr.....Seattle
Buerk, Arthur W, Bus.....Seattle
Buffalo, Paul, Law.....Seattle
Bull, Mable, Sci.....Parkland
Bull, Jennie, FA.....Seattle
Bullock, Virgil W, Sr Engr....Boise, Ida
Bundy, Robert E, LD, For.....Seattle
Bungay, Clarence, LA.....Spokane
Bungay, Ellen Louise, LA.....Spokane
Bunge, Winnifred Mathilda, LA....Seattle
Bunker, Stanley, For.....Seattle
Bunoan, Pedro B, Sci.....Philippines
Buol, Elsie, LA.....Long Beach, Cal
Burbank Myrtle Olive, Sci.....Seattle
Burdic, Frances, LA.....Seattle
Burdic, Ila, LA.....Seattle
Burdick, Dorothy, LA.....Seattle
Budrick, Marc, Bus.....Seattle
Burchette, Norman R, LD LA..Bellingham
Burd Dorothy, LD, LA.....Seattle
Burford, G Ben, Fsh.....Jeneau, Alaska
Burford, Jack B, Bus.....Juneau, Alaska
Burgeson, Elna Marie, LA.....Seattle
Burgess, Carolyn, FA.....Seattle
Burk, Clarence F, So, Engr.....Seattle
Burke, Joseph W, LA.....Seattle
Burke, Lloyd M, Sci.....Seattle
Burke, Nellie Charlotte, Edu....Ellensburg
Burkheimer, William D, LA.....Seattle
Burlage, Henry M, Phar...Earl Park, Ind
Burmeister, Claudys, FA.....Seattle
Burmeister, George C, FA.....Seattle
Burnam, David L, FA.....Anacortes
Burnam, Donald C, LD, LA....Walla Walla
Burnett, Bert, Law.....Seattle
Burnett, Mariana R, LD, LA.....Seattle
Burnett, Norma, M, Bus.....Chehalis
Burns, Dorothy, LA.....Mt Vernon
Burns, Eggert A, Bus.....Point Roberts
Burns, Gordon K, For.....Blairmore, Alta
Burns, Harry H, LA.....Seattle
Burns, Lillian, LD, BA.....Seattle
Burns, Malcolm, Sci.....Seattle
Burns, Margaret Esther, LD, LA..Seattle
Burns, Nina, FA.....Seattle
Burnside, Margaret A, L..A.Lewiston, Ida
Burpee, Frances H, Sci.....Bellingham
Burr, George D, Engr.....Seattle
Burr, Margaret, Grad.....Seattle
Burr, Wallace M, LD, BA.....Seattle
Burroughs, Alfred P, Min..Irvington, NY
Burroughs, Mrs A P, LD, LA....New York
Burrows, Robert Selden, Bus.....Seattle
Burrus, Adelyne M, Law....Pocatello, Ida
Bursett, Clemens A, FA.....Seattle

Burston, Arthur W, Phar.....Seattle
Burston, Ray J, Phar.....Seattle
Bush, Kenneth S, Uncl, BA.....Spokane
Bushell, Lydia, Sci.....Seattle
Bushue, Leo B, Sci.....Plaza
Butler, Arden Norris, LD, BA. Lincoln, Nebr
Butler, Cecil J, Engr.....Elma
Butler, Harold R, LA.....Forest
Butler, J Arthur, Uncl, BA.....Seattle
Butler, Longino, LD, BA.....Seattle
Butler, William T, Engr.....Seattle
Butt, Charles N, Engr.....Seattle
Butt, Dorothy, LA.....Seattle
Butt, Ferdinand H, Grad.....Seattle
Butt, F Mildred, FA.....Seattle
Butt, Richard V, Sci.....Seattle
Butterfield, Ward, Bus.....Seattle
Butterworth, Albert R, Bus.....Seattle
Butterworth, Edgar R, LA.....Seattle
Butterworth, Harry C, Engr.....Seattle
Butts, Everett O, Law.....Everett
Byars, Roe F, LA.....Snoqualmie Falls
Byers, Dorothy O, Sci.....Seattle
Byers, Eleanor, FA.....Everett
Byers, Elizabeth, LA.....Seattle
Byers, John H, LD, BA.....Seattle
Byles, Chester, UD, LA.....Melbourne
Byles, Elvin M, Engr.....Melbourne
Byrd, Gladys, LA.....Burns, Or
Byrne, John F, Engr.....Seattle
Byrne, Kathryn, Sci.....Seattle
Byrne, William Gilman, Engr.....Seattle
Byrnes, Robert E, UD, BA.....Seattle
Byrns, Eugene A, Engr.....Seattle

Cabanos, John N, Fr, Engr.....Seattle
Cady, Barbara E, LA.....Seattle
Cady, Chester H, Sci.....Seattle
Cahill, Lillis E, LA.....Seattle
Cain, Russell A, Phar....Richmond Beach
Cairney, Daniel William, For.....Seattle
Calachan, Fructuoso, LD, LA..Philippines
Caldan, Ivy, Uncl, LA.....Seattle
Caldwell, Eleanor, LA.....Seattle
Caldwell, John, UD, LA....Twin Falls, Ida
Caldwell, Muriel, LA....Ketchikan, Alaska
Calhoun, Gerald, LA.....Spokane
Calhoun, Grant Glenn, LA.....Seattle
Calkins, Harriet, LA.....Seattle
Calkins, Frank J, LA.....Seattle
Calkins, Richard I, Bus.....Shawno, Wis
Callahan, Kenneth L, FA.....Seattle
Callahan, Patricia, LA..Minneapolis, Minn
Callahan, Roberta, FA.....Seattle
Calma, Monico, Sci.....Philippines
Callow, Edward J, Grad.....Seattle
Calvin, James W, Sci.....Naches
Calvin, T Vernon, Fresh, Engr.....Naches
Cameron, Cecelia, LA.....Seattle
Cameron, Erdine S, FA.....Seattle
Cameron, Harold W, Bus.....Aberdeen
Camp, Cecil C, Sr, Mines.....Seattle
Camp, Gertrude E, LA.....Seattle
Campau, Marion Frances, Edu.....Seattle
Campbell, Alec Jr, Grad.....Seattle
Campbell, Archie G, Bus.....Seattle
Campbell, A Traver, Fresh, Engr. Bremerton
Campbell, Clarence, LA.....Seattle
Campbell, Donald H, Phar.....Blaine
Campbell, Ivan H, LD, Engr.....Seattle
Campbell, James A, LA.....Seattle
Campbell, John F, LD, BA.....Asotin
Campbell, Josephine H, LA....Rolling Bay
Campbell, Mrs Lillian H, LD, LA..Everett
Campbell, Mason, LA.....Seattle
Campbell, Mrs Maurine P, LA....Seattle
Campbell, Morrison, LA.....Seattle
Campbell, Myron M, Sci.....Rosalia
Campbell, R Helen, UD, FA.....Seattle
Campbell, Robert A, Grad.....Seattle
Camperson, Barton H, Bus.....Seattle
Canby, Dorothy, LA.....Wenatchee
Canedy, Ral, Engr.....Seattle
Canfield, Ruby I, Sci.....Davenport
Canfield, Ruby R, FA.....Seattle
Canney, Ella Mae, LA.....Seattle
Cannon, Joe, Bus.....Spokane
Cannon, John E, Bus.....Spokane
Cantwell, James, FA.....Aberdeen
Cantwell, Robert Emmett, FA....Aberdeen
Capen, Donald, Grad.....Seattle
Capen, Ellery, Bus.....Yelm
Caples, D Elwood, Law.....Vancouver
Capron, Marjorie, LA.....Friday Harbor
Carberry, Margaret, LA.....Spokane
Carder, Ruth, Sci.....Seattle
Cardwell, Elizabeth, LA.....Seattle
Carey, Charles R, LA.....Colville
Carey, Willard W, Sci.....Walla Walla
Carlander, Gertrude, LA.....Seattle
Carlisle, Verona M, Bus....Vancouver, BC
Carlson, Carl S, LA.....Everett
Carlson, Emil, Fsh.....Chinook
Carlson, Fred W, LA.....Tacoma
Carlson, Glen E, Grad.....Saybrook, Penn
Carlson, John Arvid, Sci.....Seattle
Carlson, John Jr, Bus.....Seattle
Carlson, Lawrence E, Engr..Twin Falls, Ida
Carlson, Oscar Carl, Phar.....Wilkeson
Carlson, Oscar F, Engr.....Seattle
Carlson, Reuben, LA.....Tacoma
Carlson, Reuben J, Uncl, Engr....Seattle
Carlson, Ted, Bus.....Seattle
Carlson, Theodore D, LA.....Everett
Carlson, Kenneth S, Bus.....Seattle
Carman, Evelyn, LA.....Seattle
Carney, Elvin P, LA.....Seattle
Carothers, N Paul, Sci.....Montesano
Carpenter, Beatrice, Grad.....Seattle
Carper, Theron Phillip, LD, BA....Seattle
Carr, D M, Sr, Engr.....Seattle
Carr, J R Cuthbert, Phar.....Tacoma
Carroll, Frank M, LD, BA.....Seattle
Carroll, M Jack, Bus.....Seattle
Carroll, Lois, Sci.....Seattle
Carroll, Theodore B, FA.....Seattle
Carson, Emma L, Edu.....Seattle
Carson, Benjamin H, Bus.....Portland, Or
Carson, Everal B, Bus.....Vancouver
Carstens, Clarence Thomas, Bus....Seattle
Carstens, Ernest, Bus.....Seattle
Carstens, Lillian, FA.....Seattle
Carstens, Wanita, LA.....Seattle
Carswell, Donald W, LD, LA.....Spokane
Cartano, Margaret C, LA.....Seattle
Carter, Burdette M, Bus.....Centralia
Carter, Esther Delight, LA.....Everett
Carter, Faith E, Sci.....Seattle
Carter, Glenn E, FA.....Sumner
Carter, Harriet Layman, LA.....Seattle
Carter, Lem R, LA.....Seattle
Carter, Leo A, Engr.....Creston
Carter, Mrs L R, LA.....Seattle
Carter, Nura Dorothea, LA.....Seattle
Carter, E Stewart, LA.....Seattle
Cartwright, Edward, Sci.....Seattle
Cartwright, Vance, Engr.....Seattle
Carver, Fred B, Sci.....Waitsburg
Carver, Howard C, Bus.....Florence, Mont
Cary, Allen S, FA.....Bellingham
Case, A Byron, Jr, Engr.....Seattle
Case, Alice, Sci.....Jeneau, Alaska
Case, Fremont A, LD, LA.....Seattle
Case, Howard L, LD, LA....Juneau, Alas
Case, Kenneth E, LA.....Seattle
Casey, Howard, LD, BA.....Colville
Casey, Lorraine Ellen, FA.....Seattle
Casey, Marguerite, Sci.....Seattle
Casler, Brannon C, Fresh, Engr.....Seattle

Cashen, Leslie, Fsh.....Douglas, Alaska
Cassels, Harry A, Bus.....Seattle
Castle, Harold, Sci.....Centralia
Castle, Sara, Bus.....Centralia
Castor, T Davis, Engr.....Seattle
Cater, Ray F, Law.....Seattle
Catton, Mildred, Grad.....Yakima
Caulkins, Alice Estelle, LA.....Everett
Cauvel, Orvel S, Engr.....Spokane
Cavender, Fern, LA.....Seattle
Cavender, Phyllis, LA.....Seattle
Cayton, Horace R, LD, BA.....Seattle
Cayton, Madge R, Bus.....Seattle
Caffee, Dortha Lucille, Edu.....Seattle
Chabot, Elwell O, Uncl, BA.....Aberdeen
Challis, Herrietta I, LD, FA.....Seattle
Charlaire, Donald, Grad....New York City
Chamberlain, Waldo, LA.....Seattle
Chambers, Bernice, Grad..Canyon City, Or
Chambers, Glenn C, Sci.....Seattle
Chambers, Horace, Grad.....Seattle
Champers, Jessie Earle, Engr.....Seattle
Chan, George L, Bus.....Swatow, China
Chan, L Frank, Fresh Engr.....China
Chandler, Berniece, FA.....Seattle
Chandler, Marjorie, FA.....Seattle
Chang, Hai Yun, LA.....Shanghai, China
Chang, Pei Yuan, Bus.....Tientsin, China
Chang, Tse-sheng, LA.....Yuhsien, China
Chang-Yam, Victor, LA....Sun Woy, China
Chapman, Arthur H, LA.....Seattle
Chapman, Horace, LD, LA.....Seattle
Chapman, John C, Bus.....Seattle
Chapman, Virginia, LA.....Seattle
Chappel, Winifred, LA.....Seattle
Charleston, Jack L, Bus.....Seattle
Charleston, William M, Law.....Seattle
Charlesworth, Grace, Sci.....Bellingham
Charlesworth, Ruth, FA.....Bellingham
Charlston, Carl E, Sci.....Brush Prairie
Charlton, Pearl, Spec, Sci....Winnipeg, Can
Charteris, James M, Bus.....Seattle
Chase, Jennie A, Sci.....Edmonds
Chatterton, Katherine W, Sci.....Seattle
Cheal, Mary, FA.....Seattle
Chen, David H, LA.....Dionglok, China
Chen, Mrs D H, LD, LA..Diongloc, China
Chen, Duang-Bing, Engr.....China
Chen, Kuo Hsin, Bus.....Peking, China
Chen, Tung Pai, Grad.....Shanghai, China
Cheng, Rao-ku, LA.....Lo-Shan, China
Cherniashevsky, William, Engr.....Seattle
Chesley, Dorothy Helen, Grad.....Seattle
Chesnut, Margaret, LA.....Seattle
Chess, Samuel T, Bus.....Seattle
Chester, William G, Engr.....Bellingham
Cheung, Heung Shang, Law..Canton, China
Chichester, J. Bernard, LA.....Seattle
Childs, Harry J, LA.....Tacoma
Chin, Poy Set, Uncl, BA.....Seattle
Chin, Y Han, Uncl, BA.....Seattle
Chinn, Carolyn F, FA.....Seattle
Chinn, Helen, LA.....Seattle
Chinn, Yuin Kee, Bus.....Seattle
Chisholm, France E, LA.....Seattle
Choate, Elizabeth, FA.....Seattle
Chopson, Warner, LA.....Seattle
Chouzias, Dimitrios, Uncl, LA.....Greece
Christensen, Elsa H, LD, LA.....Seattle
Christensen, Ferdinand A, Bus.....Seattle
Christensen, Valborg A, Grad.....Seattle
Christine, Chadwick, LD, Sci.....Tacoma
Christopherson, Wilbur, For.....Vancouver
Churchill, Doris, LA.....Ellensburg
Churchill, Niles, Bus.....Centralia
Churchill, Verne G, Bus.....Kirkland
Chute, Geo Roger, Grad.....Two Rivers
Chute, Lionel H, LA.....Seattle
Clague, John, Fresh, Engr.....Seattle
Clancy, Alice, LD, FA.....Seattle
Clancy, G. Richard, Engr.....Seattle
Clancy, Winifred, FA.....Medford, Or
Clark, Alvin H, Engr..Balboa, Canal Zone
Clark, Benjamin I, Fresh, Engr.....Seattle
Clark, Howard A, Grad.....Seattle
Clark, Huntley V, LA.....Spokane
Clark, Irl B, Bus.....Seattle
Clark, J Denny, LD, Engr.....Seattle
Clark, Ralph E, Engr.....Reardan
Clark, Wesley M, Sci.....Spokane
Clarke, Examelia, LA.....Portland, Or
Clarke, Francese, FA.....Seattle
Clarke, George E, LA.....Spokane
Clarke, George W, Law.....Mercer Island
Clarke, Katherine, LA.....Seattle
Clarke, Mary L, Edu.....Vancouver
Clarke, Samuel J, UD, For.Washington, DC
Clarke, Stanley J, LA.....Vancouver, BC
Clauder, Elsa C, LA.....Seattle
Clausen, Chester K, Grad.....Seattle
Clausen, Emma C, Grad....The Dalles, Or
Clay, Helen, FA.....Seattle
Clayberg, Sylvester, Law.....Portland, Or
Clayton, Walter C, Engr.....Seattle
Cleaver, Gertrude, LA.....Everett
Clein, Lillian, Phar.....Seattle
Clem, Norma G, FA.....Great Fall, Mont
Clemens, Myrtle, FA.....Leavensworth
Clement, Andrew Weir, Engr.....Seattle
Clement, Frank M, Engr.....Kelso
Clement, Franklin, Grad..Albert Lea, Minn
Clemmer, Ruth, Sci.....Yakima
Cleveland, Carl M, LA.....Tacoma
Cline, Denzel C, LA.....Isabel, Kan
Clingan, Frederick S, LA.....Seattle
Clingan, Helen C, LD, Sci.....Seattle
Closson, Louise, LA.....Seattle
Cloud, Charles W, For.....Aberdeen
Clough, Lorine, LA.....Everett
Cloughley, Walter M, Bus.....Yakima
Cluck, Jack Raymond, LA.....Bothell
Coale, A Draper Jr, LA.....Tacoma
Coale, Elizabeth, LA.....Tacoma
Coart, John C, LA.....Seattle
Coates, Roy, LA.....Seattle
Coates, Florence, Sci.....Raymond
Cobley, Edgar I, LA.....Tacoma
Cobley, James Arnold, LA.....Seattle
Cochran, Neil M, Bus.....Snohomish
Cochran, Stanley William, Engr....Seattle
Cochrane, Edward L, Law.....Kent
Cockcroft, Ruth W, Sci..Lahaina, Hawaii
Cocking, Boyd V, LD, LA.....Centralia
Coffee, W Glennon, Bus.....Tacoma
Coffin, Dorothy E, LA....Long Beach, Cal
Coghlan, Willard A, Bus.....Seattle
Cohen, Joseph, LA.....Seattle
Cohen, Philip G, Grad.....Tacoma
Cohn, Rose M, LA.....Spokane
Coke, Martha E, Edu.....Seattle
Colburn, Dorothy, Bus.....McMillin
Cole, Frances, LA.....Everett
Cole, Harold C, Bus.....Spokane
Cole, Helen Voss, LA.....Seattle
Cole, Marcel C, Bus.....Veradale
Cole, Marjorie Edith, Sci.....Seattle
Cole, Walter J, LA.....Seattle
Coleman, Zenas Y, LA.....Toppenish
Coles, Mildred, Uncl, Pharm.....Seattle
Collett, Arthur Eugene, Law.....Seattle
Collett, William R. Sci.....Tacoma
Collie, Ross F, UD, LA.....Seattle
Collier, Irene, LA.....Seattle
Collins, Cyril A, Elgr.....Seattle
Collins, Norman, Jour.....Spokane
Collins, Parker Pratt, LA.....Seattle
Collins, Thelma, Sci.....Enumclaw
Collins, Wallace Green, LA.....Seattle

Colman, Isabel S, Sci.....Seattle
Colman, Walter M, LD, LA....Rockford, Ill
Colvin, Evalyn, FA.....Seattle
Combes, Esther M, Sci.....Seattle
Combs, Dorothy, LA.....Seattle
Comings, Everett L, Engr.....Bremerton
Comings, Paul William, Engr....Bremerton
Commeree, Clifford Hugh, Bus.....Colville
Comeree, Viateur M, Sci.....Colville
Compton, Harry Otis, Engr.....Seattle
Compton, Ira D, Bus.....Vancouver
Compton, Merrill E, Bus.....Seattle
Compton, Milton, Engr.....Tulare, Cal
Condon, Hal, Bus.....Seattle
Congdon, Shirley, LA.....Yakima
Conger, Dorothy, LA.....Seattle
Conger, Olive, LA.....Seattle
Conklin, Russel, Bus.....Spokane
Connell, Helen, LA.....Seattle
Connell, Richard E, Bus.....Seattle
Connolly, B Genevieve, LA....Hensler, ND
Connolly, Zoa E, LA.....Seattle
Connor, Aileen, LA.....Seattle
Connor, Madeline M, FA.....Vancouver
Conover, Norman, LD, LA.....Seattle
Constance, Alvin M, LD, LA.....Seattle
Converse, Adelia M, UD, LA.....Seattle
Convery, Fred R, Sci.....Olympia
Conway, Jack, LD, LA.....Skagway, Alas
Conway, Norman, Bus.....Seattle
Conway, Zelma, Sci.....Toppenish
Cook, Arthur David, Bus.....Chimacum
Cook, Chesley M, Bus.....Seattle
Cook, Eugene Henry, Bus.....Maderas, Or
Cook, Faustine D, Grad.....Seattle
Cook, George S, LA.....Seattle
Cook, Jack C, Bus.....Snohomish
Cook, Joseph Dudley, Law.....Tacoma
Cook, Lucile, LA.....Peoria, Ill
Cook, Marjorie, LA.....Seattle
Cook, Parker E, LA.....Seattle
Cook, Raymond Edward, Engr.....Seattle
Cook, Richard Hiram, Sci.....Bellingham
Cook, Richard H, Phar.....Seattle
Cooke, Huldah, Sci.....Bellingham
Cooledge, Margaret F, LA.....Seattle
Cooley, Mrs Alice R, UD, LA.....Seattle
Coolidge, Alethea, FA.....Seattle
Coolidge, Elizabeth, LD, LA.....Seattle
Cooney, Doris M, Bus.....Pt Angeles
Coons, Helen E, LD, FA.....Aberdeen
Cooper, Edwin V, Sci.....Seattle
Cooper, Elizabeth A, Spec, FA.....Seattle
Cooper, Elizabeth, Sci.....Tampa, Fla
Cooper, John D, Bus.....Tacoma
Cooper, Lawrence Arthur, Sci....Vancouver
Cooper, Lemuel B, Engr.....Seattle
Coors, Dorothy, LA.....Spokane
Copenhaver, Edith, Bus.....Seattle
Copenhaven, Marie B, FA.....Seattle
Coplan, Nena M, Sci.....Seattle
Coplen, Donald G, Min.....Seattle
Corbaley, Tom B, Bus.....Seattle
Corbett, Kathleen, LA.....Huntsville
Corcoran, Jampes P, Fresh, Engr....Seattle
Corey, Elva F, Bus.....Seattle
Corlett, Donald A, Bus.....Portland, Or.
Corlett, Mildred V, LA.....Seattle
Cornell, Cyril, LA.....Seattle
Cornell, Elmore C, LD, Sci.....Seattle
Corson, Kenneth P, For.....Seattle
Corwin, Chester H, LA.....Puyallup
Cory, Merle Ralph, Jour.....Tacoma
Cory, Vilva Katherine, Sci.....Chehalis
Cosser, Harold C, Bus.....Pt Angeles
Costello, Edward B, Engr.....Kent
Costello, Ellen, FA.....Tacoma
Coughlin, Paul, LA.....Spokane
Courtright, William V, LA.....Seattle
Coventry, Edwin J, Grad.....Concrete
Cover, Margaret, FA.....Seattle
Covington, Duane M, For.....Seattle
Cowan, Carol, LA.....Medina
Cowan, Dorothy, LA.....Seattle
Cowell, Frederick Charles, Bus.....Naches
Cowling, Richard, C, LA.....Spokane
Cox, Julia V, Grad.....Seattle
Coy, Katherine, Sci.....Yakima
Coydan, Steven, Unci, LA.....Seattle
Coyne, Sophie, LA.....Wallace, Ida
Craft, Carroll M, LA.....McCleary
Craft, Doris T, LA.....McCleary
Craft, Orva M, LA.....McCleary
Craig, A Genevieve, FA.....Longview
Craig, Marjorie B, FA.....Seattle
Crait, Lawrence A, UD, BA.....Seattle
Cram, Clark Roy, Bus.....Seattle
Cram, Evelyn, LA.....Raymond
Cram, Harold T, Bus.....Seattle
Cramer, Dorothy M, Sci.....Bellevue
Crandall, Marguerite E, LA.....Seattle
Crane, Alice E, Sci.....Seattle
Crane, Marion A, Jour.....Seattle
Crankshaw, Claude P, FA.....Monroe
Cranston, Margaret, FA.Santa Monica, Cal
Craven, Dorothy, Sci.....Butte, Mont
Craven, Eleanor Arnold, LA..Butte, Mont
Crawford, Edward I, Grad.....Seattle
Crawford, Frances, LA.....Hoquiam
Crawford, Leon, BA.....Anacortes
Crawford, Marshall, Sci.....Seattle
Crawford, Roberta M, FA.....Seattle
Crawshaw, Lulu, Edu.....Seattle
Creitz, W B, Fresh, Engr....Portland, Or
Cress, Cornelia V, LA.Ft Leavenworth, Kan
Criddle, Carol E, FA.....Seattle
Crim, Dorothy M, Edu.....Seattle
Crisler, Phanoy, Phar.....Pt Angeles
Crist, Constance W, LD, Sci.....Seattle
Crosby, Forrest, Bus.....Seattle
Crosby, John C, Min.....Tacoma
Crosby, Norman, LA.....Pearley, Minn
Crosby, Roy H, Engr.....Seattle
Crose, Wallace B, Bus.....Seattle
Crosno, May Frances, Grad.....Seattle
Crouch, Charles Willard, FA.....Seattle
Crowley, Nina R, Grad.....Seattle
Crowston, Grace, Sci....Drumbeller, Alta
Cruickshank, Bruce W, Phar.....Seattle
Crumb, Thomas E, LA.....Morton
Cruttenden, Viola, FA.....Seattle
Cruzen, Edward A, Grad.....Seattle
Cruzen, Eugenia C, Sci.....Seattle
Cruzen, Leona Eva, LA.....Boise, Ida
Cryan, Eleanor, LA.....Yakima
Cullen, Carroll Douglas, Engr.....Seattle
Cullen, Ray R, Grad.....Seattle
Cullinan, Nicholas C, LA.....Seattle
Cultum, Gordon L, Engr.....Tacoma
Culver, Edith F, LA.....Spokane
Cumins, Clarence S, LD, LA....Wenatchee
Cummings, Mrs Rena, UD, Educ....Seattle
Cummins, Grace, Sci.....Seattle
Cundiff, Velda P, Sci.....Wenatchee
Cunningham, John P, LD, LA.....Seattle
Curry, Elliot, LA.....Oroville
Curry, Jerome J, Bus.....Yakima
Curry, Mildred, FA.....Seattle
Curtin, Hugh M, Bus.....Seattle
Curtis, Allan D, Bus.....Seattle
Curtis, Carl Edward, Grad.....Seattle
Cushing, Eugene G, LA.....Vancouver
Cushman, Willis E, LA.....Chehalis
Cussac, Archille Clair, Bus.....Issaquah
Cutler, Denzil A, Engr.....Vashon
Cutting, Judson M, Bus.....Seattle
Cutts, Cecilia, Grad.....Seattle
Cutts, Elmer H, LD, LA.....Seattle

Dabney, Edith, Grad.....Seattle
Dagg, Helen Gertrude, LA.....Seattle
Daggett, Annie, UD, Sci.....Port Ludlow
Dahlberg, Edith, Sci.....Seattle
Dahlen, Henrietta, LD, LA....Walla Walla
Dailey, Edith L, LA.....Seattle
Dailey, Manvel C, Soph, Engr.....Seattle
Dailey, Walter, LA.....Everett
Dally, Louise B, LA.....Seattle
Dahlquest, John E, Engr.Richmond Beach
Daly, Elizabeth, LA.....Pt Townsend
Damerell, V Richard, Grad.....Earlington
Daniel, Virginia, Sci.....Seattle
Daniels, Albert S, Bus.....Tacoma
Daniels, Signe, Sci.....Seattle
Daniels, William C, Engr.....Puyallup
Dant, Dorothy Mae, LA.....Portland, Or
da Ponte, Helen, LA.....Seattle
Daquioag, Sebastian, Grad.....Philippines
Dare, Homer Hayward, For.....Seattle
Dark, Carleton W, Law.....Seattle
Dark, Dorothy, Sci.....Seattle
Dark, Kathryn, Sci.....Seattle
Darling, Benjamin, Spec, LA.....Everett
Darling, Warren, LA.....Seattle
Darr, Alice, Sci.....Tacoma
Darragh, James B Jr, Fresh, Engr..Seattle
Dassel, Walter Henry, Phar.....Langley
Daugherty, Bernice E, FA.....Seattle
Daum, Edna, FA.....Seattle
Daut, Audrey, LA.....Seattle
Daverin, Lyle, Bus.....Yakima
Davidson, Barbara, Sci.....Seattle
Davidson, Dorothy, Jour.....Seattle
Davidson, Edward W, Engr...Bremerton
Davidson, Henry M, Law.....Seattle
Davidson, Kenneth M, Bus.....Seattle
Davidson, Lorna Effie, LA.....Seattle
Davidson, Margaret, LA.....Seattle
Davidson, Olive Kate, FA.....Seattle
Davies, Enid, LA.....Seattle
Davin, Jackson, Bus.....Walla Walla
Davis, J Alvin, Bus.....Spokane
Davis, Ansil A, LA.....Medford, Or
Davis, Benjamin F, Bus.....Seattle
Davis, Ben S, FA.....Seattle
Davis, Caleb Forbes, Engr.....Seattle
Davis, David, Bus.....Davenport
Davis, Donald, Bus.....Seattle
Davis, Florence M, Lib.....Seattle
Davis, Frank L, Bus.....Seattle
Davis, George S, LA.....Donald
Davis, Harley, LD, LA.....Wenatchee
Davis, Lenna Gladys, LA..Lewiston, Mont
Davis, Lois E, LA.....Seattle
Davis, Merrick Farnham, Bus....Centralia
Davis, Meryl Elsie, Uncl, BA.....Seattle
Davis, Mildred A, Phar.....Seattle
Davis, K Norma, LA.....Renton
Davis, Paul A, Edu.....Seattle
Davis, Paul B, Engr.....Endicott
Davis, Raphael Harrison, For....Anacortes
Davis, Ralph S, LA.....Davenport
Davis, Rolla L, LD, LA.....Ridgfield
Davis, Thornton J, LD, BA.....Seattle
Davis, Vera, Bus.....Renton
Davis, Wilbur L, Bus.....Seattle
Davis, William R, Bus.....Gt Falls, Mont
Davison, W Ward, Bus.....Spokane
Daws, Leota, Edu.....Seattle
Dawson, Daniel O, Bus.....Seattle
Dawson, Dorothy B, LA.....Bellingham
Dawson, Edwin K, LD, LA.....Spokane
Dawson, John C, LD, For..New Denver, BC
Dawson, Lee, Soph, Engr.....Seattle
Day, Donald Lee, Bus.....Seattle
Day, John W, Bus.....Seattle
Day, Leroy Frank, Phar.....Bremerton
Day, Merritt, LA.....Seattle
Dayton, Ralph E, Bus.....Seattle
Deaderick, Kelly D, Law.....Halfway, Or
Dean, Floyd M, Sci.....Bellingham
Dean, Frederick B, Phar.....Tacoma
Dean, Genevieve Harriett, LA..Pt Angeles
Dean, Helen Rose, Bus.....Yakima
Dear, Vivian, Bus.....Wenatchee
Deasy, Catherine, Edu.....Seattle
DeBruler, Olive, LA.....Seattle
De Ford, George Wm, Law..Lincoln, Neb
De Freest, Kathryn, LA.....Honolulu
De Garmo, Gerald, Law.....Seattle
De Graw, Cullen J, Sci.....Seattle
De Groote, Lloyd H, For.....Auburn
de Heus, Rachel, Edu.....Spokane
Deierlein, Grace, Grad.....Everett
De Kray, Raymond W, Bus.....Seattle
Delaney, Verner D. FA.....Seattle
Delanty, William H. Bus.....Aberdeen
Del Duca, Domeneca, LD, FA.....Seattle
Del Duca, Elizabeth, Sci.....Seattle
de Leon, Esteban, UD, Sci....Philippines
Dellar, Sarah, LD, LA.....Portland, Or
Deloso, Uldarico D, Engr.....Philippines
Demar, Harold, Bus.....Seattle
Dempster, Dorothy, FA.....Granger
Deng, George Dah Shien, Fsh.....China
Denhof, Sherlie P, LD, BA.....Chehalis
Denman, Leslie W, LA.....Bossburg
Denning, Alice M, Sci.....Portage
Dennis, Bernice E, LA.....Seattle
Denny, Harold M, Fr, Engr.....Easton
Denny, John L, Law.....Crockett, Tex
Depew, Chester Ira, Engr.....Edmonds
De Remier, Beatrice F.....Seattle
Desautel, Adeline M, UD, Educ....Lincoln
De Sellem, John Burbage, For.....Everett
De Serisy, Homer J, So, Engr.....Seattle
De Shazo, Melvin Gardner, LA.....Seattle
de Soto, Alex, LA.....Seattle
Devanna, Aileen, LA.....Auburn
Devin, C Paul, LD, FA.....Seattle
Devine, Paul F, Min.....Seattle
Dewar, Warren L, LD, BA.....Manette
Dewey, Bertha C, LA.....Seattle
De Witt, Ruth, FA.....Seattle
De Witt, Roscoe H, Sci.....Seattle
Dexter, Etta Frances, LA.....Winslow
Dexter, George T, Engr.....Seattle
Diamond, Charles, Uncl, LA.....Seattle
Diamond, Joe, Engr.....Seattle
Dick, R Sherman, LA.....Seattle
Dicke, Virginia Barbara, FA.....Seattle
Dickey, Dorothy, LD, LA.....Seattle
Dickey, Miriam Louise, LA.....Spokane
Dickinson, Dorothy, LA.....Raymond
Dickinson, George L, Bus.....Napavine
Dickinson, Lawton W, Soph, Engr..Seattle
Dickson, Irene Y, FA.....Seattle
Dickson, John C, Grad.....Seattle
Dickson, Katherine M, Sci...Boulder, Colo
Dickson, William J, LA.....Sedro-Woolley
Dietderich, Clifford E, Min.....Vancouver
Dietz, George H, Sci.....Oso
Dightman, Genevieve, Uncl, LA.....Seattle
Dilling, Margaret, LA.....Seattle
Dillon, Suzanne, LA.....Seattle
Dilworth, Richard L, Bus.....Seattle
Dingle, Virginia, LA.....Newport
Dingley, Henrietta, LD, LA.....Seattle
Dinwoodey, June, LA.....Seattle
Dirks, Clarence, LA.....Seattle
Disbrow, Claude H. Phar.....Seattle
Dishnow, Jay Victor, LA.....Seattle
Dishnow, Sylvia, LA.....Seattle
Ditmars, Ivan Dale, FA.....Olympia
Ditmars, Tracy A, Bus.....Olympia
Dittemore, Wallace C, Engr.....Seattle
Ditty, James S, Jr, LA.....Bellevue
Dix, Florence, LA.....Seattle

Dix, Marion, Jour.....Seattle
Dix, Peres A, Phar.....Seattle
Dixon, Fredricka, FA.....Seattle
Doan, Violet Ledelia, LA.....Seattle
Dobbins, Frank L, Fresh, Engr....Auburn
Dobbs, Benjamin, Engr.....Pt Townsend
Dobbs, Charlotte, Sci.....Seattle
Dobbs, Margaret, LA....Ketchikan, Alaska
Dobler, Anne, LA.....Seattle
Dobrin, Hilda, FA.....Yakima
Dobrovolsky, Alexander, Engr.....Seattle
Dobson, George Robert, Edu.....Renton
Dobson, Thomas, Bus.....Renton
Docka, Arthur Peter, Edu.....Snohomish
Dodd, Gordon B. LA.....White Swan
Dodd, Gregory E, LD, LA.....Wapato
Dodge, Elva Mabel, Sci.....Seattle
Dodge, Laurance, LA.....Seattle
Dodson, Jesse Moody, For.....Seattle
Doheny, Geraldine, LA.....Seattle
Doherty, Joseph C, Bus.....Butte, Mont
Dohm, Dorothy G, LA.....Olympia
Doi, Minaji, Engr.....Seattle
Dolan, Edmund R, Bus.....Butte, Mont
Dolley, Ernest L, Uncl, BA.....Tacoma
Dolphin, Ruth, Bus.....Seattle
Donahoe, Eugene F, UD, BA.....Elma
Donald, Isabel, LA.....Honolulu
Donaldson, Hallie, FA.....Seattle
Donaldson, Mazie Mildred, LA.....Puyallup
Donley, Eleanor Florence, LA.....Seattle
Donworth, Mary, LA.....Seattle
Dormann, Helen Mary, Sci.....Seattle
Dormann, G Robert, Engr.....Seattle
Dorsey, David T, LA.....Waterville
Doscher, Anne Dorothy, Bus...Boise, Ida
Doty, Felecia M, FA.....Seattle
Doty, Wayne L, Jour.....Seattle
Dougherty, Ollie, Bus.....Seattle
Dougherty, Ruth M, LA..Long Beach, Calif
Douglas, George S, Sci.....Seattle
Douglas, Jean E, LA.....Seattle
Douglas, John F, Bus.....Seattle
Douglas, Neva, FA.....Seattle
Douglas, William A, Engr.....Seattle
Douglass, Don D, Bus.....Pasco
Douglass, Edward L, Engr.....Wenatchee
Doumit, Mitchell, LA.....Cathlamet
Doward, Orton Parsons, Sci.....Seattle
Doward, Ruth, LA.....Seattle
Downing, Evelyn, LA.....Mt Vernon
Dowling, Jack, LD, For.....Portland, Or
Downs, Cecil James, LA.....Spokane
Doyle, Edna M, Grad.....Seattle
Doyle, Margaret A. Sci.....Seattle
Drager, Gertrude M, LA.....Seattle
Dragoo, Bessie R, Edu.....Spokane
Dragoo, Charles V, Bus.....Spokane
Drake, Cornelia Polk, Sci.....Spokane
Drake, Helen E, FA.....Seattle
Drake, James D L, For....New York City
Drake, F Lucille, FA.....Fall City
Drake, Mary C, Edu.....Glacier
Drake, Robert N L, For.....Seattle
Dranga, Melvin, LA.....Seattle
Draper, Dorothy E, LA.....Seattle
Drees, Marguerite, Sci.....Seattle
Dremolski, Forrest John, Bus...Coupeville
Dremolski, Louie A, For.....Coupeville
Drever, Helen, LA.....Seattle
Drew, Claire, LA.....Seattle
Driscoll, Charles, Uncl, BA....Butte, Mont
Driscoll, Eugene A, UD, Educ....Renton
Drumheller, James, LA.....Everett
Drury, Omer, LD, LA.....Seattle
Dryden, M Dale, Bus.....Seattle
Drysdale, Charles E, Engr.....Everett
DuBois, Frances G, FA.....Seattle
Du Bois, Kinsley L, LA.....Vancouver
Du Bois, Richard, For.....Vancouver
Ducasse, Mabel L, Grad.....Seattle
Duckering, Richard Elmhirst, Phar..Seattle
Duclayan, Pedro A, Sci.....Philippines
Dudley, Mary Potter, FA.....Aberdeen
Duell, Mildred M, LA.....Chehalis
Duff, Edmund E, Engr.....Renton
Duffy, Edwin Hugh, Bus.....Seattle
Dugan, Helen J, Sci.....Seattle
Dugan, James P, LA.....Seattle
Dugdale, Mary, FA.....Seattle
Duke, Frances E, LD, Sci.....Seattle
Dull, Virginia E, FA.....Seattle
Dunaway, Mary Frances, LA.....Seattle
Dunbar, Helen, LA.....Vashon
Duncan, Benjamin (Dun,Kwei),LD,FA.China
Duncan, Charles A, LA.....Seattle
Duncan, Clifford, Bus.....Seattle
Duncan, Dorothy Keeney, Sci.....Seattle
Duncan, Kenneth, FA.....Seattle
Duncan, Margaret, LA.....Seattle
Duncan, Margaret M, Sci.....Custer
Duncanson, Harold B, Engr.....Seattle
Dunham, Mrs Margery, Law.....Seattle
Dunn, Arthur G, Law.....Seattle
Dunn, Chauncey S, LA.....Seattle
Dunn, Edward B, Bus.....Seattle
Dunn, Florence Steele, LA.....Seattle
Dunn, Frank, For.....Seattle
Dunn, Gertrude, FA.....Seattle
Dunn, John M, LA.....Juneau, Alaska
Dunn, Lucy, FA.....Seattle
Dunn, Winifred, LA.....Seattle
Dupuis, Margaret, Sci.....Seattle
Duquette, Pauline, FA.....Seattle
DuRae, Berenice, Grad.....Bellingham
Durand, W Raynor, Law.....Everett
Durand, Reynolds, LA.....Everett
Durgin, Carey L, Engr.....Enumclaw
Durham, Howard, LA.....Bellingham
Durose, Fred W, Sci.....Seattle
Duryee, Schuyler L, Engr...Mercer Island
Dusenberry, Inez May, Lib..Bozeman, Mt
Dutch, Dorothy E, Sci.....North Bend, Or
Dutton, Harry John, Bus.....Seattle
Duwe, Richard A, Bus.....Seattle
Dwyer, Katharine M. Sci.....Spokane
Dwyer, William E, LA.....Seattle
Dyer, Martha, Sci.....Seattle
Dyke, Joe. Bus.....Seattle
Dykes, Robert Burns, LA.....Seattle

Eagleson, Margaret, LA.....Seattle
Earnest, Robert V, Grad.....Bothell
East, Marguerite, Bus.....Vancouver
Easterbrook, William E. Bus.....Seattle
Eastman, Fred S, Engr.....Seattle
Eastman, Lois M, LD, LA.....Tacoma
Eastwood, Louise, LA.....Seattle
Ebblewhite, Charles Harry, Engr..Spokane
Ebbley, Demerice, FA.....Clarkston
Eby, Edwin Harold, Grad.....Spokane
Eby, Roger I, Engr.....Spokane
Ecker, Anthony J, Engr.....Clayton
Eckman, Richard, LA.....Seattle
Eckmann, Lloyd F, Bus.....Seattle
Eckrem, Dagrun Lillian, FA.....Seattle
Eckstein, Howard, Bus.....Seattle
Eckstein, Joanna, Grad.....Seattle
Eddades, Victorio C, FA.....Philippines
Eddy, Richard H, For.....Yelm
Edgell, Preston D, Soph, Engr....Labam
Edgerton, Ernest B, Grad.....Seattle
Edler, Olof E, Phar.....Mt Vernon
Edline, Dorothy L, Sci.....Seattle
Edlund, Maurice O, LD, LA.....Tacoma
Edmeades, Willard S, Sci.....Seattle
Edris, Roy W, UD, BA....De Land, Fla
Edwards, Archie Campbell, Bus.....Seattle

Edwards, Clarence V, LD, LA....Seattle
Edwards, George W, Grad.....Seattle
Edwards, James Burton, Engr.....Seattle
Edwards, Thelma Lillian, Grad....Seattle
Edwards, William W, LA.....Seattle
Effinger, Vivian H, FA.....Seattle
Egtvet, Percy, Bus.....Edmonds
Ehle, Albert R, Engr.....Seattle
Ehrlich, Barbara, LA.....Seattle
Eichhorn, George T, FA..Canon City, Colo
Eide, Gudrun C, LA.....Seattle
Eiffert, Dorothy, FA.....Seattle
Eiffert, Esther, Grad.....Seattle
Eiffert, Mabel M, LA.....Seattle
Eiffert, Opal Jean, Sci.....Seattle
Eikenbary, Calista, FA.....Spokane
Eisminger, Madeline, LA.....Seattle
Eisminger, Tilton, FA.....Alberton, Mont
Elberson, Ruth E, LA.....Seattle
Elder, Lynn, For.....Seattle
Eldridge, Eugene S, LA.....Seattle
Eldridge, Wesley, Bus.....Seattle
Elford, Elizabeth, LA.....Seattle
Elias, Frank, For.....Seattle
Elias, Margaret, LA.....Seattle
Eljenholm, Richard D, For.....Hoquiam
Elledge, Gladys Pearl, FA.....Seattle
Elledge, Lela M, LA.....Seattle
Eller, Willard H, Grad.....Seattle
Ellerbeck, Karl H, Engr.....Seattle
Elliott, Richard C, Sci.....Tacoma
Ellis, Alta Mae, LD, LA.....Seattle
Ellis, Katherine, FA.....Waterville
Ellis, Sam B, Engr.....Waterville
Elmer, Andrew Moore, Min.....Seattle
Elmore, Ann, LA.....Seattle
Elwell, Dorothy P, FA.....Vancouver
Elwell, Miriam, LD, FA.....Olympia
Emery, Charles, Engr....Clarks Hill, Ind
Emery, Marianne, FA.....Seattle
Emig, John W, Fresh, Engr...Leavenworth
Emison, C Ralph, Engr.....Kelso
Emmeluth, William J, Bus.....Seattle
Emminger, Frank, Engr.....Turlock, Calif
Emminger, Joe, Bus.....Seattle
Emmons, Ralph W, Uncl, LA...Salem, Or
Eng, Jack, Engr.....Canton, China
Eng, Keys, Bus.....Canton, China
Eng, Oscar, LA.....Seattle
Eng, T Richard, Sci.....Seattle
Engberg, Ralph, FA.....Seattle
Engdahl, Evelyn, Sci.....Spokane
Engdahl, Karl E, Sci.....Spokane
Engdahl, Selma, LA.....Mt Vernon
Enger, Bernice, Sci.....Tacoma
England, Olga, FA.....Seattle
Engle, Frances E, Bus.....Nampa, Ida
Engle, James R, Bus.....Spokane
Engle, Marjorie E, LA.....Coupeville
Engle, Nathanael H, LA.....Seattle
Engler, James, LA.....Seattle
English, Elsie, Grad.....Seattle
Engstrom, Elton, LA.....Wrangell, Alaska
Engstrom, Wallace R, Engr.....Seattle
Enloe, Keith, Bus.....Spokane
Epton, J Wiltsie, Sci.....Seattle
Ericksen, Louise M, LD, LA.....Seattle
Erickson, Alfonso, LA.....Seattle
Erickson, Allen L, Bus.....Tukwila
Erickson, Alvyn John, Bus.....Seattle
Erickson, Archie M, Engr.....Deep River
Erickson, Gilbert, Bus.....Seattle
Erickson, Leonard L, Bus.....Seattle
Erickson, Lloyd E, LA.....Seattle
Erickson, Oscar, Engr.....Hoquiam
Erickson, Phil K, LA.....Seattle
Erickson, Richard, Bus.....Edmonds
Erickson, Roosevelt, LA.....Everett
Erickson, Roy C, Phar.....Seattle
Erickson, Walden D, Bus.....Seattle
Ericson, Earl, For.....Seattle
Eriksen, Edward G, Bus.....Seattle
Erlenborn, Franz J, Bus.....Seattle
Ernest, Maude, Grad.....Tulalip
Ernst, James E, Grad....Mohrsville, Penn
Ervin, Ernest Wells, Bus..Anchorage, Alas
Erving, Taina, Bus.....Winlock
Erz, Evelyn, FA.....Bellingham
Esary, Alan Howard, Bus.....Seattle
Esary, Myrtle, FA.....Bow
Estep, Amy J, Edu.....Seattle
Estepa, Sotero, LA.....Philippines
Esterman, Louis J, LA.....Seattle
Estes, Fred, Jr, Engr.....Seattle
Estes, John F, Grad.....Bow
Estey, Mrs Emily Smith, LA.....Seattle
Estigoy, Pastor L, Engr.....Philippines
Ethel, Garland Oral, Grad.....Everett
Etherington, Thomas J, Sci.....Elma
Eustaquio, Monico G, Sci.....Philippines
Evans, Catherine, LD, FA.....Seattle
Evans, Clementine, Phar.....Seattle
Evans, W Fred, Bus.....Vancouver, BC
Evans, Harry W, LD, BA.....Seattle
Evans, Irene, Bus.....Bellingham
Evans, Lacey H, Sci.....Vancouver, BC
Evans, Margaret L, Uncl, LA....Snohomish
Evans, Margaret Virginia, FA.....Seattle
Evans, Margery C, LA.....Kapowsin
Evans, Marian, FA.....Spokane
Evans, Miller, Engr.....Seattle
Evans, Milton Jacob, Bus.....Seattle
Evatt, Stanley Emerson, Bus....Bellingham
Evenson, William E Jr, LA.....Hobart
Ewalt, Mildred, LA.....Amber
Ewell, Winifred J, Sci.....Seattle
Eyler, Marian, FA.....Seattle
Eyster, Jane Caroline, Bus.....Seattle

Fabico, Emilio F, Bus.....Philippines
Faget, Melvin, LA.....Los Angeles
Fahey Philip B, LD, LA.....Seattle
Fairchild, Inez, FA.....Seattle
Fairley, David B, Bus.....Seattle
Fairley, Nelles T, LA.....Seattle
Falk, David Richard, Bus.....Seattle
Falkoff, Emma, LA.....Seattle
Falkoff, Ernest, Law.....Seattle
Fallon, Vern E, LA.....Butte, Mont
Fan, Hong Tchean, Bus.....China
Fancher, Jim Wesley, Sci.....Seattle
Farber, Lena, LA.....Tacoma
Farley, John M, For.....Seattle
Farmer, Marshall, LA.....Yakima
Farnalls, Margaret, LD, FA....Halkirk, Al
Farr, Forest Willard, Engr.....Seattle
Farrar, Edith Frances, Sci.....Seattle
Farrar, Myrtle I, Edu.....Langford, S D
Farrar, Newell, Bus.....Seattle
Farwell, Edwin J, Bus.....Seattle
Farwell, Stanley Esters, Bus.....Yakima
Farrell, Robert S, LA.....Seattle
Fasken, Georgia Elaine, LA.....Cashmere
Fawley, Norma, Bus.....Waterville
Featherstone, Harriet, LA....Wallace, Ida
Feek, Charles, Bus.....Clinton
Feek, Edward O, Bus.....Seattle
Feek, Florence Margaret, FA.....Seattle
Felch, Baxter C, Bus.....Seattle
Felch, Margaret, LA.....Ellensburg
Felipe, Edwuardo V, For.....Philippines
Fellows, Hollis A, Uncl, LA.....Tacoma
Felmley, Marion, LA.....Seattle
Fenton, Elizabeth, LA.....Seattle
Ferguson, Lois Genevieve, Sci.....Seattle
Ferguson, W Verne, LA.....Bremerton
Ferrier, Gladys, LA.....Aberdeen
Ferry, Edward P, LA.....Seattle

Ferry, Frances, FA.....Seattle
Fessenmaier, Athyleen, LA.....Seattle
Fevold, Sophie E, Uncl, Sci..Humboldt, Ia
Fickel, Ruth Elizabeth, Sci.....Everett
Fiedler, Charles A Jr, Bus.....Newport
Field, M Alice, LA.....Seattle
Field, William P, Fresh, Engr....Seattle
Fields, Earl T, FA.....Woodland
Finke, Mabel Lerene, LA.....Seattle
Finke, Ralph W, Engr.....Seattle
Finland, George H, Min.....Victoria, BC
Finlay, Lloyd Ceba, LA.....Seattle
Finlay, Maxine, Grad.....Seattle
Finley, Marjorie H, FA...Red Lodge, Mont
Finlon, Arthur, Fsh.....Seattle
Finseth, Karen D, Sci.....Brush Prairie
Finn, Norma M, UD, LA.....Seattle
Fischer, Hilbert Louis, Bus.....Yakima
Fischer, Louis, Phar.....Seattle
Fiscus, Louis R, LA.....Seattle
Fish, Kenneth G, Sci.....Seattle
Fisher, L Donald, LA.....Tacoma
Fisher, Dorothy, FA.....Seattle
Fisher, Dorsey G, LA.....Seattle
Fisher, Folsom, Sci.....Hoquiam
Fisher, Harold, Fsh.....Seattle
Fisher Jack, LD, LA.....Seattle
Fisher, Kenneth R, LA.....Seattle
Fisher, Lloyd H, Engr.....Seattle
Fisher, Maier Thorton, Bus.....Edwall
Fisher, Mary A, FA.....Seattle
Fisher, William D, UD, LA....Napa, Cal
Fisk, Russell T Y, UD, Educ.....Seattle
Fisken, Ruth K, UD, Educ.....Spokane
Fitch, Hereford T, LA.....Tacoma
Fitterer, Dorothy, LA.....Ellensburg
Fitzgerald, Elizabeth, Phar.....Seattle
Fitzgerald, Hattie May, Sci.....Seattle
Fitzgerald, Louis, Bus.....Vancouver
Fitzgerald, John V, Bus.....Spokane
Fitzharris, Edward J, LA.....Spokane
Fitzpatrick, George W, Sr, Engr....Seattle
Fitzpatrick, May, Bus.....Seattle
Fitzsimmons, Marguerite, LA....Vancouver
Fjarlie Aagot Jeannette, LA.....Silvanna
Fladd, Everett, Bus.....Buffalo, NY
Flanagan, John C, Engr.....Seattle
Flanigan, Margaret E, Bus.....Seattle
Flannery, Marybeth, LA.....Seattle
Flannigan, Fred L, Bus.....Seattle
Flatebo, Borghild, Bus.....Seattle
Flatebo, Helga, FA.....Seattle
Fleming, James P, Bus.....Seattle
Fleming, Robert E, LD, LA.....Seattle
Fletcher, Blanche F, LD, FA.....Seattle
Fletcher, George G, Phar.....Seattle
Fletcher, Gerald R, Engr.....Seattle
Flick, Clinton, Bus.....Seattle
Flint, Floyd Oscar, LA.....Seattle
Flodin, Carl R, Engr.....Spokane
Flodman, Milton N, LA.....Wahoo, Neb
Flohr, Charles L, Engr.....Seattle
Flohr, E Firmin, Engr.....Seattle
Flood, Catherine, FA.....Tacoma
Floyd, Lucy, Sci.....Kittitas
Floyd, Ruth M, Grad.....Seattle
Flynne, Madeline L, LD, LA....Spokane
Flynne, Virginia Ann, LA.....Spokane
Flyzik, Katherine, LA.....Renton
Fogelquist, Floyd W, For.....Selah
Fohn, Walter F, LA.....Seattle
Foley, John R, Bus.....Seattle
Foley, Maurice P, Sci.....Maple Valley
Follette, Evelyn Cecilia, Bus.....Seattle
Folsom, Morrill F, LA.....Lakota Beach
Folts, Frances, Sci.....Seattle
Foltz, Elva, UD, Sci.....Seattle
Fonacier, Felix C, Fresh, Engr..Philippines
Fonacier, Guillermo C, LA.....Philippines
Foote, Harriet Evans, FA.....Seattle
Foott, William Henry, Engr..Portland, Ore
Forbes, Evelyn G, Sci.....Seattle
Forbes, Helen, LA.....Seattle
Ford, Bruce M, Phar.....Seattle
Ford, Gertrude C, Bus.....Trenton, Neb
Ford, Tirey Foster, Engr.....Tacoma
Ford, William Pendleton, LA.....Seattle
Forcum, Preston L, Soph, Engr....Spokane
Foreman, Iona, Sci.....Seattle
Forler, Marian Jane, FA.....Seattle
Forman, Fred, Bus.....Wapato
Forman, Raymond, LA.....Wapato
Forrest, Jack, LA.....Seattle
Forster, Fred E, UD, BA.....Seattle
Fortier, Roy, Bus..... Walla Walla
Forward, Charles Henry, For.....Seattle
Foster, Albert, Bus.....Tacoma
Foster, Calvin, Engr.....Pt Angeles
Foster, Charles J, Grad.....Seattle
Foster, David A, FA.....Richmond Beach
Foster, Dorothy, LD, Sci.....Seattle
Foster, Gertrude A, LD, Sci.....Seattle
Foster, Robert, Sci.....Colfax
Foster, Stranbery, LA.....Seattle
Fountain, Harold A, LA.....Clarkston
Fournier, Paul Brundes, LA.....Skykomish
Fouts, Marcia Orma, Sci.....Seattle
Fovargue, Mary Elizabeth, LA....Aberdeen
Fowler, Franklin W, UD, Educ..Wenatchee
Fowler, Helen Toles, FA.....Everett
Fowler, Thomas Thad, LA.....Seattle
Fowler, Wallace Elder, Bus.....Tacoma
Fowlkes, Florence Vickers, LA.....Seattle
Fox, Bernard A, Bus.....Spokane
Fox, Joseph S, LD, LA.....Seattle
Fox, Harry A, Bus.....Seattle
Fox, Mangrum C, LD, LA....Newton, Kan
Foy, Raymond E, LA.....Seattle
Foy, Ruby, LA.....Pt Orchard
Foye, Dorris, Bus.....Seattle
France, Muriel, LA.....Montesano
Francis, Arthur D, Engr.....Tacoma
Frank, Beth, Bus.....Seattle
Frank, John A, Engr.....Seattle
Frank, Sophie, Uncl, BA.....Seattle
Franklin, Alice, LA.....Denver, Colo
Franklin, Alice V, Grad.....Seattle
Franklin, Charles Willson, Bus.....Naches
Franks, Ernest, Engr.....Seattle
Fransioli, Thomas, FA.....Seattle
Fraser, Frank, Law.....Bellingham
Fraser, Helen Esther, Sci.....Waterville
Fraser, James E, UD, BA.....Yakima
Fraser, Lincoln W, Phar.....Libby, Mont
Fraser, Marguerite, Bus.....Yakima
Fraser, Russell E, LA.....Davenport
Fraser, Ted Arthur, Bus.....Bellingham
Fraser, Whittier, Bus.....Burton
Frayn, Richard, Bus.....Seattle
Frayn, Robert M, LA.....Seattle
Fredrick, Alice P, LA.....Seattle
Frederick, Paul, Engr.....Seattle
Freeburg, Roy E, FA.....Seattle
Freeman, Esther Olive, Sci.....Washtucna
Freeman, Norman L, Fsh....Vancouver, BC
Freeman, Vaughn H, Engr.....Spokane
Freeze, Hildegarde, LA.....Seattle
French, Graham, FA.....Seattle
French, Jessie I, Bus.....Seattle
French, Ray Theodore, LA.....Okanogan
Freund, Julia, LD, LA.....Anacortes
Friborg, Arnold, LA.....Seattle
Fricke, Edgar F, Bus.....Stella
Friday, Paul D, LD, LA.....Seattle
Friderici, Hazel E, LA.....Seattle
Friedlander, Selma Shirley, LA.....Seattle
Friedman, Abe, LA.....Seattle

Friend, Le Roy, Sci.....Seattle
Frierson, Bertha Belle, LA.....Seattle
Friese, Bernice V, LA.....Edmonds
Friese, Ernestine, LA.....Snohomish
Frolov, Boris A, Uncl, Engr.....Siberia
Frost, Frank W, Bus.....Stanwood
Frost, Ruby B, Sci.....Silverdale
Frost, Vernon R, Jour.....Spokane
Froula, Olivia, LD, BA.....Seattle
Frudenfeld, Mildred L, LA.....Seattle
Fry, Elizabeth H, Sci.....Olympia
Fry, Iva M, Sci.....Hoquiam
Fry, Nellie A, Sci.....Hoquiam
Fryer, Era C, LD, Fish.....Tacoma
Fryer, Lucia, LA.....Seattle
Fujii Yoshito, LD, LA.....Seattle
Fuller, Elizabeth, FA.....Seattle
Fuller, Richard E, Grad.....Seattle
Fullington, Lloyd H, For.....Seattle
Fulton, H Reed, Grad.....Seattle
Funakush, Sakaye, LA.....Bellevue
Furgeson, Carey Donald, LA.....Seattle
Furgeson, Leora, Sci.....Summer
Furuya, Masa, FA.....Seattle
Furuya, William N, Bus.....Seattle
Fushimi, Shigeichi, Bus.....Seattle

Gabrielson, Carl W, UD, BA.....Puyallup
Gaffner, Hainer Bell, Engr.....Seattle
Gailey, Helen, LA.....Seattle
Gaine, Juanita June, FA.....Seattle
Gaines, Donald L, LD, LA.....Seattle
Galbraith, Jane E, Uncl, LA.....Seattle
Galima, Leonardo, LA.....Philippines
Gallagher, Gene May, LA.....Seattle
Gallagher, Eileen, LA.....Seattle
Gallinger, Edythe, FA.....Seattle
Galt, Byron H, Bus.....Seattle
Galvez, Pedro R, Edu.....Philippines
Gamble, Boyd E, LD, BA.....Seattle
Gammell, John, Engr.....Burton
Gammon, Lucille A, LA.....Seattle
Garbe, Frank Arthur, LA.....Chehalis
Garcia, Maximo P, Min.....Philippines
Garden, Kathryn L, LA.....Charleston
Gardineer, Marian F, LA.....Seattle
Gardiner, Anne Henshaw, Grad.....Seattle
Gardner, Bryon Ross, Bus.....Tacoma
Gardner, W Hal, Bus.....Nisqually
Gardner, Harold A, Engr.....Seattle
Garland, Cathran E, FA.....Seattle
Garland, Lois, LA.....Seattle
Garman, G Walter, Engr.....Seattle
Garner, Louella M, LD, LA.....Seattle
Garretson, Zelma, LA.....Cosmopolis
Garrett, Elton, Edu.....Puyallup
Garrison, George, Bus.....Seattle
Garrison, Homer D, Fr, Engr..Oak Harbor
Garrott, Hal Noble, LA.....Seattle
Gasch, Margaret, LA.....Seattle
Gaskill, Odessa Ada, Bus.....Seattle
Gaston, Dorothy, Grad.....Seattle
Gaston, Leon S, Engr.....Seattle
Gaston, Robert Dudley, Bus.....Seattle
Gates, Alice Elizabeth, LA.....Seattle
Gates, Ben Leo, LA.....Seattle
Gates, Bryan Cleveland, Phar.....Yakima
Gatton, Dorothy, Edu.....Seattle
Gauff, Bertha Frances, Sci.....Wenatchee
Gaul, Henry Charles, Bus.....Everett
Gaul, Leona Louise, FA.....Everett
Gault, Edwin T, Bus.....Ellensburg
Gavin, H O'Niel, Uncl, LA.....Seattle
Gay, Mable E, Bus.....Arlington
Gayler, Anne Roberts, LA.....Seattle
Gaynor, Sidney B, LA.....Seattle
Gayton, James A, LA.....Seattle
Geary, Frances Lillian, Sci.....Seattle
Geary, Vertis H, For ...Lake Charles, LA

Gedmin, Ludmila, Phar.....Seattle
Geehan, John William, LA.....Tacoma
Geibel, Fred Worstell, Bus.....Bremerton
Geist, Marian E, LA.....Walla Walla
Gemmell, Fred M, Edu.....Preston
Gentle, Ottalene, LD, LA.....Centralia
George, Dorothy, Sci.....Seattle
George, Dorothy Thomas, LA.....Seattle
George, Evaline B, LA.....Yakima
George, Mary, LA.....Seattle
George, Robert L, For.....Seattle
Geraghty, Thomas E, Law.....Spokane
Gerbel, Maribeth, LA.....Seattle
Gerber, Leonard, Bus.....Seattle
Geri, Frank Hamilton, Sci.....Bellingham
Geri, Helen, FA.....Bellingham
Gerriets, Bertha, Bus.....Mt Vernon
Gerrish, Olive May, Edu.....Seattle
Gerritt, Harriet Ina, Edu.....Seattle
Gerry, Marion, LA.....Seattle
Gershon, Perry R, LD, LA.....Seattle
Getchell, Asher F, LA.....Seattle
Getchell, Eleanor A, FA.....Seattle
Gfeller, Matilda, Bus.....Seattle
Ghiselin, Alex D, Sci.....Spokane
Gibbon, Waldyn L, LD, LA.....Sultan
Gibbs, Thomas Charles, LA.....Kirkland
Gibbs, William LA.....Seattle
Gibson, Leslie Robert, Engr.....Granger
Gibson, Stanley D, Bus.....Davenport
Giddens, Bernadine, FA.....Seattle
Gierin, Grace Esabelle, LA.....Seattle
Gierin, Russell B, Bus.....Seattle
Gifford, Robert, Fr, Engr.....Seattle
Gilbert, Harold S, Bus.....Seattle
Gilbert, Rachel M, LA.....Seattle
Gilbert, William N, LA.....Zillah
Gilbreath, Matilda K, Grad.....Seattle
Gilchrist, Madeline, Grad.....Seattle
Giles, James E, Bus.....Pt Angeles
Gilhams, Helen, UD, LA....Sturgis, Mich
Gill, George B, Engr.....Seattle
Gill, Kenneth H, Bus.....Snohomish
Gill, Prem Singh, Sci.....India
Gilleland, Mary R, LA.....Seattle
Gillen, Charlotte Z, FA.....Chelan
Gillespie, Elmer H, Sci.....Seattle
Gillespie, Conroy Richard, Sci.....Spokane
Gillespie, Louis A, UD, BA.....Brewster
Gillespie Margaret R, Sci.....Hoquiam
Gillett, Erma M, Sci.....Seattle
Gillis, Ewen, Grad.....Prince Edward I.
Gilmore, Constance, LA.....Seattle
Gilmore, Gertrude Hortense, LA....Seattle
Gilmore, Helen, LA.....Seattle
Gilmore, John Wayne. LA.....Seattle
Gilmore, Robert H, LA.....Seattle
Giovanini, Frank, Engr.....Roslyn
Girard, Esther Elizabeth, LA.....Hoquiam
Giuntoni, Julius D, LA....Red Lodge, Mont
Glaser, Harry G, Grad.....Seattle
Glass, James M, Sci.....Seattle
Glass, Martha B, LA.....Ione
Glass, Robert, Engr.....Auburn
Glavinovich, Carl S, Sci.....Seattle
Glaze, Nina M, Bus.....Seattle
Glazer, David Stanley, Phar....Bellingham
Gleason, Marian C, Sci.....Seattle
Glen, Juliet K, FA.....Seattle
Glenn, Wesley S, UD, LA.....Seattle
Glerup, Marius J, Bus.....Spokane
Glesin, Dora, LA.....Seattle
Gloyde, Harold,.....Seattle
Glynn, William B, FA.....Seattle
Gnagey, Jack, LA.....Seattle
Goana, Placido C, LD, LA....Philippines
Gochnour, Floyd E, LA.....Montesano
Godefroy, William H, UD, Sci...Spokane
Godfrey, Xelis W, Engr.....Lake Stevens

Gochring, Viola, Bus.....Seattle
Goerig, Elizabeth, FA.....Seattle
Goff, Earl Wilson, Engr.....Chelan Falls
Goff, Neville B, Bus.....Seattle
Goldblatt, Alfred, LA.....Seattle
Goldblatt, Helen, LA.....Spokane
Goldman, Erwin F, Grad.....Seattle
Goldsmith, Louis C, LA.....Seattle
Gooch, Martha, Sci.....Seattle
Good, Harold E, Bus.....Mt Vernon
Good, Lydia Mae, LA.....Mt Vernon
Goodglick, Samson, Grad.....Seattle
Goodrich, Hobert R, Min.....Pt Townsend
Goodsell, Julia, Sci.....Chelan
Goodwin, Frank, LA.....Seattle
Goodwin, Lang M, Bus.....Milton, Ore
Goodwin, Marshall, Bus.....Thorp
Goodwin, Thomas K, Fsh.....Spokane
Goon, Henry F, Bus.....Seattle
Goon, John Leon, Bus.....Seattle
Gorbovitzky, Maurice, Sr, Engr....Russia
Gorbovitzky, Max, Jr, Engr.....Russia
Gordon, Clarie I, For.....Seattle
Gordon, Doris Ross, LA.....Chehalis
Gordon, Jean, LA.....Tacoma
Gordon, Madeline C, Bus.....Seattle
Gordon, Walter S, Engr.....Seattle
Gorham, Elizabeth, LA.....Seattle
Gorham, Harlan W, Bus.....Snohomish
Gorham, Helen M, LA.....Snohomish
Gorham, Marguerite, LA.....Seattle
Gorow, Frank Fletcher, Sci.....Boise, Ida
Gorow, George F, Grad.....Boise, Ida
Gose, Thomas Phelps, Law....Walla Walla
Gorrell, Genevieve W, LA....Portland, Ore
Gosa, Earl Harvey, Sci.....Seattle
Goss, Lyle E, LA.....Summer
Gould, Eugene C, Uncl, BA.....Seattle
Gould, Marie L, LD, LA.....Seattle
Goulde, Glenn Elgin Engr.....Seattle
Gourlay, Robert, LA.....Seattle
Gowdy, Wilson John, Bus.....Morton
Gowen, Joyce, LA.....Seattle
Gowen, Sylvia, LA.....Seattle
Grace, Elizabeth, LA.....Seattle
Grace, Robert H, Law.....Seattle
Gracey, Clellen Bruce, Bus.....Seattle
Graefe, Margaret L, LA.....Seattle
Graessner, Julia, LA.....Seattle
Graff, Mrs Ione, LA.....Seattle
Graff, Peyer N, UD, LA.....Spokane
Grafft, Clark F, LD, LA.....Everett
Grafft, George H, LA.....Everett
Graham, Carroll K, Sr, Engr.....Seattle
Graham, Charlotte, Grad.....Seattle
Graham, Donold P, Engr.....Seattle
Graham, Elizabeth E, LA.....Bellingham
Graham, Ferederick A, LD, Ph..Bellingham
Graham, Gordon D, Engr.....Seattle
Graham, Helen Jackson, FA.....Seattle
Graham, Mary H, FA.....Bellingham
Grahn, Clarence A, Bus.....Seattle
Grahn, Raymond Theodore, Bus.....Seattle
Grandey, Howard L, Bus..Southbridge, Mass
Granstrom, Allan E, Fr, Mines.....Seattle
Grant, Helen, LA.....Seattle
Grant, Jeanie M, LA.....Seattle
Grant, Leslie R, Bus.....Victoria, BC
Grant, Margaret A, LA...Wrangell, Alaska
Grant, Neil, Bus.....Wrangell, Alaska
Grant, Ruth A, Bus.....Seattle
Grant, Samuel W, LD, Pharm.....Seattle
Grant, Vernon H, Engr.....Seattle
Grant, Wells Harold, Fsh.....Seattle
Grass, Lorette B, LA.....Tacoma
Graves, Elizabeth, LA.....Bellingham
Graves, Francis D, Bus.....Bellingham
Graves, Hershel D, Sr, Engr.....Seattle
Graves, Katherine, LA.....Seattle
Graves, Marjorie Mae, LA.....Edmonds
Graves, Virginia S, FA.....Seattle
Gray, Charles W, Sci.....Seattle
Gray, Emanual A, LA.....Seattle
Gray, Ernest C, Fr, Engr.....Seattle
Gray, Fluvia C, FA.....Puyallup
Gray, Helen Elizabeth, LA.....Seattle
Gray, Howard B, Grad.....Seattle
Gray, Mary Ann, LA.....Seattle
Gray, Virginia, LA.....Seattle
Graybill, Anita Joan, Grad.....Tacoma
Grayum William Helend, Grad....Puyallup
Greason, Florence E, LD, Sci.....Bothell
Grebe, Edna J, FA.....Spokane
Greely, Cyril R, LA.....Seattle
Greely, Gilbert F, Bus.....Seattle
Greely, Myril J, LD, LA.....Seattle
Green, Clifton D, Bus.....Seattle
Green, Floyd C, LA.....Carnation
Green, J W, Sr, Engr.....Seattle
Green, Lloyd Elmer, Bus.....Seattle
Green, Marvel, Sci.....Seattle
Green, Norman, Engr.....Bothell
Green, Thomas J, LA.....Tacoma
Green, Thomas M, 1st Yr, Law.....Seattle
Greenbank, Herbert Archer, Law....Seattle
Greenberg, Abe Arthur, Phar.....Seattle
Greenberg, Dorothy, FA.....Seattle
Greenberg, Eloise A, FA.....Seattle
Greene, Elizabeth, LD, LA.....Seattle
Greene, Hamilton L, 1st Yr, Law..Seattle
Greenstone, Charles R, LD, LA....Seattle
Greenwalt, Oliver W, LD, Sci.....Yakima
Greenwich, Alexander N, Fsh.....Seattle
Greenwood, Bessie, Lib.....Victoria, BC
Greer, Alfred J, Bus.....Seattle
Greer, Jean E, Sci.....Seattle
Gregory, Mercer, LA.....Seattle
Greig, Arthur, LA.....Cashmere
Greig, William T, LA.....Cashmere
Greiner, Mary, LA.....Portland, Ore
Greiner, Ruth H, Grad.....Seattle
Gretorex, Darrell D, Uncl, Engr....Seattle
Griadasoff, Leonid, Engr.....Seattle
Griep, Kenneth, Bus.....Seattle
Griffin, Fredric P, LA.....Tacoma
Griffin, Lois M, Edu.....Seattle
Griffin, Marie, LA.....Seattle
Griffith, Chester, Bus.....Seattle
Griffith, Hazel D, LA.....Seattle
Griffith, John Morris, Engr....Deer Park
Griffith, Francis P, Engr.....Seattle
Griffiths, Lois Wilfred, Grad.....Seattle
Grim, Helen Lois, Bus.....Seattle
Grimm, William H, Law.....Centralia
Grindell, Virginia, LA.....Seattle
Grisdale, George M, LD, For.....Shelton
Grisdale, Joseph C, LD, For.....Shelton
Gritsch, Anton H, LD, BA.....Seattle
Gross, William C, For.....Newark, NJ
Gross, Richard A, LD, BA....Walla Walla
Grotle, Clara, FA.....Seattle
Groves, George Wesley, FA.....Seattle
Grubbs, Margaret Alice, LA.....Tacoma
Gruber, Foster M, FA.....Walla Walla
Gruenberg, Fred P, LD, BA....Wenatchee
Grunbaum, Henry Maurice, Bus....Seattle
Grunbaum, Louise, LA.....Seattle
Gualtieri, Juliet, FA.....Seattle
Guernsey, Rollin N, Edu.....Seattle
Guffey, William Cummings, Phar...Everett
Guiang, Pedro, LA.....Philippines
Guilbeault, Ethel B, LD, LA.....Seattle
Guild, Gertrude M, UD, FA.....Seattle
Guillen, Fileman, LA.....Philippines
Gulliksen, Olive M, Bus....Sherman, Tex
Gilliksen, Webster, LA.....Everett
Gilliken, Olive, Bus.....Everett
Gulick, John Dorchester, Bus.....Seattle

Gunderson, Fred J, Engr..Wrangell, Alaska
Gundlach, Betty L, Sci.....Wallace, Ida
Gundlach, Ralph, Grad.....Wallace, Ida
Gunnell, Mary B, FA.....Seattle
Gussenbeurger, Eva, LA.....Kent
Gustafson, Carl L, Sci.....Woodinville
Gustafson, Katherine, Sci.....Seattle
Gustafson, Iva Marie, Phar....Cosmopolis
Gustafson, Rudolph O, Engr.....Vancouver
Gutherless, L Edward, Bus....Leavenworth
Guthrie, Elton F, LA.....Seattle
Guttormsen, George, LA.....Everett

Haack, W Margaret, Edu.....Seattle
Habenicht, Gladys V, Grad..Colburn, Mont
Habicht, Helen M, LA.....Seattle
Haase, Albert Paul, Bus.....Clarkston
Hachez, Irene Louise, LA.....Spokane
Hackett, Clara A, Sci.....Tacoma
Hackney, Devere, Bus.....Centralia
Haddon, Lawerence Edwin, Bus..Bremerton
Hadsell, Robert Lee, Bus.....Everett
Haffly, Jean Delmar,Bus....Sedro Woolley
Hager, Irene, LA.....Olalla
Hagen, Florence, FA.....Seattle
Hager, Dorothy, Sci.....Vancouver, BC
Hager, Marjory, FA.....Vancouver, BC
Hagerty, Donald W, Bus..Browning, Mont
Hagerty, Frank W, Edu..Great Falls, Mont
Haggard, Henry Edward, Bus..Maple Falls
Haggett, Dorothy G, Grad.....Seattle
Hagist, Edgar L, LA.....Seattle
Haglund, Ivar, Bus.....Seattle
Hagyard, May, LA.....Seattle
Hahn, Catherine E, Bus.....Spokane
Hahn, Cathryn Louise, LA.....Skagway
Hahn, Genevieve K, Uncl, Sci.....Seattle
Haiman, Lewis, For.....Seattle
Haines, Frances L, LD, LA.....Seattle
Haines, Ruth R, FA.....Seattle
Halberstadt, Elizabeth H, LA.....Seattle
Halbert, Margarite F, FA.....Seattle
Hale, Eleanor E, FA.....Seattle
Hale, Estle William, Bus.....Bickleton
Hale, Crattan, Bus.....Seattle
Hale, Oron James, LA.....Bickleton
Hale, Warren, Sci.....Vancouver
Haley, Douglas A, Bus.....Willmar, Minn
Haligas, Leon LeRoy, Bus.....Seattle
Hall, Annabell Eleanor, La.....Seattle
Hall, Helen M, FA.....Seattle
Hall, Margaret Olive, LA.....Seattle
Hall, Ralph D, LA.....Seattle
Hall, Robert C, Grad.....Montesano
Hall, Ruth V, LA.....Seattle
Hall, Vernon K, Grad.....Vancouver
Hall, William Robert, Bus.....Chinook
Haller, Theodore, Engr.....Seattle
Hallett, John Louis, Engr.....Seattle
Hallowell, Harry, LA.....Bothell
Hallstrom, Charles W, LA.....Seattle
Hallstrom, Irving T, Engr.....Seattle
Halpern, Nathan, Engr.....Seattle
Halsan, Rachael, LA.....Dockton
Halstead, Elmer, Engr.....Seattle
Halton, Ramona, LA.....Tacoma
Halvarson, Thure, Engr.....Seattle
Halverson, Kendall, Edu.....Seattle
Hamada, Fred I, Bus.....Seattle
Haman, Dorothy Nell, LA.....Seattle
Hamblen, Ruth, LA.....Seattle
Hambleton, Edith, LA.....Seattle
Hambleton, George F, Engr.....Seattle
Hamel, James Lewis, Bus..Los Angeles, Cal
Hamerly, Lawrence R, Jr, Engr....Seattle
Hamilton, Edward M, Uncl, LA....Tacoma
Hamm, George R, Bus.....Puyallup
Hammack, James R, Law.....Mt Vernon
Hammond, Allen O, Grad.....Seattle
Hammond, Claude K, LD, For.....Seattle
Hammond, Lester Carolyn, Grad...Everett
Hammond, Marguerite, Phar.....Seattle
Hampson, Floyd Frank, Bus.....Seattle
Hampson, Fred E, LA.....Tacoma
Hampton, Jane G, LA.....Salt Lake, Utah
Hanafusa, Fumi Alyce, Bus.....Seattle
Hand, Hope, LA.....Seattle
Hand, Roger E, LA.....Seattle
Haner, Norman W, Soph, Engr..Wickersham
Haner, Victor C, Jr. Engr....Wickersham
Haney, Wayne Leroy, LA.....Seattle
Hanks, Josephine, FA.....Seattle
Hanley, Edward Burnette, LA.....Seattle
Hanley, Myron, Bus.....Spokane
Hanley, Veronica, UD, LA.....Seattle
Hannah, Fred C, Phar.....Friday Harbor
Hannify, Maurice, LA.....Yakima
Hannum, Clair A, Grad.....Seattle
Hanschel, Violet Hazel, FA.....Seattle
Hansen, Alvida L, Edu.....Tacoma
Hansen, Carlyle D, Bus.....Everett
Hansen, Helen A, LA.....Snohomish
Hansen, Herman, 1st rY, Law....Spokane
Hansen, Inga M, LA.....Pt Angeles
Hanse, Morgaret, LA.....Everett
Hansen, Ralph B, Engr.....Seattle
Hansen, Reese D. Sr, Engr.....Seattle
Hansen, Ted A, Engr.....Seattle
Hansen, Thomas Louis, Engr....Bellingham
Hanson, Alice C, LA.....Seattle
Hanson, Elsie L, Bus.....Seattle
Hanson, Harold Marion, LA.....Everett
Hanson, Harold W, For.....Enumclaw
Hanson, Harry A, LD, Fsh.....Seattle
Hanson, Helen, FA.....Seattle
Hanson, Louise J, FA....Ketchikan, Alaska
Hanson, Mildred, Bus.....Seattle
Hanson, O B, Grad.....Seattle
Hanson, Paul W, Bus....Ketchikan, Alaska
Hanson, A, B,.....Bellingham
Hanson, Russell M, Bus.....Bellingham
Hanson, Stanley P, LD, LA....Boston, Mass
Harbor, Anona, Bus.....Tacoma
Hardinger, Annette, Phar.....Seattle
Hardwick, Don, Bus.....Everett
Hardwick, Emerson, Sci.....Everett
Hardy, Frederick A, Phar.....Seattle
Hardy, Martha E, LA.....Seattle
Harley, Clinton Frederick, Bus.....Seattle
Harmean, Robert, LA.....Spokane
Harmon, Edward B, Grad.....Seattle
Harnett, Frank W, Engr.....Three Lakes
Harney, Gerlad E, Engr.....Seattle
Harold, Pearl, LA.....Seattle
Harper, Roland, Phar.....Seattle
Harras, Gustav, Bus.....Walla Walla
Harris, Charles H, Bus.....Seattle
Harris, David M, LD, Sci.....Seattle
Harris, Mrs Florence S, Lib.....Seattle
Harris, Gertrude, LD, FA.....Seattle
Harris, Harry Hall, Engr.....Seattle
Harris, Helen Louise, FA.....Alderwood
Harris, John D, Bus.....Seattle
Harris, John H, Bus.....Seattle
Harris, John J, LA.....Seattle
Harris, John Franklin, LA.....Seattle
Harris, Leland S, Sci.....Seattle
Harris, Ralph H, For.....Seattle
Harris, Robert G, Jr, Engr.....Seattle
Harris, Roy H, Engr.....Ceres
Harris, Violet E, FA.....Seattle
Harrison, Helen, LA.....Seattle
Harrison, Helen K, UD, LA.Lonb Beach, Cal
Harrison, Mae, LA.....Richmond Beach
Harrison, Martha M, Sci.....Spokane
Harrold, Vincent M, Jr, LD, Sci.Des Moines
Harsch, Alfred E, UD, LA.....Yakima
Harshman, Agnes Campbell, Grad....Seattle
Hart, Edward G, For.....Seattle

Hart, Harold H, LA.....Issaquah
Hart, Harold S, LD, BA.....Seattle
Hart, Harvey B, LD, BA.....Longview
Hart, Katherine, LA.....Everson
Hart, Rosamond Price, LA....Portland, Ore
Hart, J Stanley, Bus.....Spokane
Harter, Genevieve Wells, Edu...Bellingham
Hartert, Pearl, FA.....Everett
Hartge, Lena A, Grad.....Seattle
Harting, Raymond D, Jour.....Seattle
Hartle, Frances, LA.....Seattle
Hartle, George, LD, BA.....Seattle
Hartley, Florence, Sci.....Seattle
Hartman, Bertram, LD, BA.....Seattle
Hartman, Jonathan E, Engr.....Kirkland
Hartnagel, Nelson, For.....Seattle
Hartt, Bertha Mary, Edu.....Pt Angeles
Hartwig, Floyd C, Bus.....Seattle
Hartzell, Lester J, Engr.....Seattle
Harvey, Earle A, Sci.....Arlington
Harvey, Lora, LA.....Seattle
Harvey, Nellie R, LA.....Seattle
Harvey, Ralph A, LD, BA.....Arlington
Harwood F Barton, Fsh.....Seattle
Haskell, Margaret, LA.....Seattle
Haskell, Oliver H, LA.....Tacoma
Haskin, Emma Helen, LA.....Olympia
Hastings, Jesse, FA.....Seattle
Hatch, George E, LA.....Seattle
Hatch, Orville C, Law.....Seattle
Haubner, Madonna Maria, LA.....Tacoma
Hauff, Harold A, Soph, Engr.....Seattle
Hauff, Thor W, Engr.....Seattle
Hauschildt, Frank Bus.....Seattle
Haven, George, Jr, LD, For.....Seattle
Haven, Jean, LA.....Everett
Havlik, Mary Genevieve, FA....Portland, Or
Hawkins, Edward K, Fr, Engr.....Seattle
Hawkins, Hanford T, Engr.....Pt Ludlow
Hawkins, Harold, Sci.....Bellingham
Hawkins, Hazel Marion, LA.....Seattle
Hawkins, Jessie K, LD, LA.....Seattle
Hawley, Catherine L, LA.....Seattle
Hay, Muriel, LA.....Seattle
Hayashi, Hisakichi, Bus.....Japan
Hayashitani, Yutaka, LD, FA.....Seattle
Hayden, Mary Dyer, LA.....Seattle
Hayes, Bernice, Grad.....Seattle
Hayes, Byron Howard, Bus.....Seattle
Hayes, Elizabeth Georgina, Bus.....Seattle
Hayes, Gilbert W, For.....Chicago, Ill
Hayes, Leroy E, Bus.....Bellingham
Hayes, Margaret M, Phar.....Seattle
Hars, Loyal B, LA.....Longview
Hayward, William S, Bus.....Seattle
Hazen, Kathryn, FA.....Auburn
Hazen, Margaret, LA.....Snohomish
Hazzard, Margaret, LA.....Seattle
Head, Pauline, FA.....Seattle
Healy, Warren C, Sci.....Seattle
Heaney, Genevieve C, LA.....Butte, Mont
Hearty, Aileen Louise, FA.....Seattle
Heath, Howard D, Bus.....Seattle
Heath, Lawrence C, Bus.....Spokane
Heaton, William D, Bus.....Spokane
Hebb, Paul H, LA.....Grand Pre
Hecht, Ruth, FA.....Seattle
Hedges, Elizabeth, FA.....Waterville
Hedreen, Carl A, LD, Sci.....Seattle
Hedrick, Frieda, FA.....Seattle
Heer, Ralph, W, Bus.....Seattle
Hegg, Arnold, Eng.....Aberdeen
Hegg, Florence, FA.....Sedro Woolley
Heideman, Karl P, Law.....Calumet
Heidergott, Edna, Sci.....Seattle
Heiman, Jeffrey, Law.....Seattle
Heine, Henry C, Jr, LD, BA.....Tacoma
Heinz, Bertram, FA.....Chelan
Heinz, Winfield B, Engr.....Chelan
Held, Jane, Bus.....Seattle
Hellens, Glory, LA.....Seattle
Hellens, Lawrence W, Bus.....Seattle
Helliesen, Edith, LA.....Seattle
Helliesen, Harold S, Bus.....Seattle
Helliesen, Margareet Ann, LA.....Seattle
Helphrey, Mary Frances, Bus.....Seattle
Helstrom, Gordon L, Sci.....Willpa
Hemenway, Julia S, LA.....Seattle
Hemmi, Earl P, LD, LA.....Bellingham
Hemrich, Walter Alvin, Bus.....Aberdeen
Henderson, Helen, LA.....Hoquiam
Henke, Harry Jr, LA.....Seattle
Henricksen, Fred S, Gard.....Tacoma
Henricksen, Thorwald W, Bus.....Tacoma
Henroit, Jane, LA.....Seattle
Henriot, Richard L, LA.....Seattle
Henry, Frank R, For.....Tacoma
Henry, Gorman, LD, LA.....Seattle
Henry, Janet, LA.....Seattle
Henry, Florence, LA.....Tacoma
Henry, Patrick, LA.....Roslyn
Henry, Rossie, UD, Educ.....Seattle
Hensler, Lovette, FA.....Seattle
Hensley, Olive, LA.....Seattle
Hepler, Carroll D, Engr.....Seattle
Hepperle, Charlott P, FA.....Dubuque, Ia
Hepperle, Hulda, Grad.....Dubuque, Ia
Herb, Elmer M, UD, BA.....Spokane
Herbert, Gustav A, Grad.....Seattle
Herbsman, Virginia, Bus.....Seattle
Hermann, Helen, FA.....Ritzville
Hermanson, Helen V, Uncl, LA....Adrian
Hermanson, Stanley, Phar.....Seattle
Hernandez, Salustiano C, Bus...Philippines
Herod, Mignon, FA.....Zillah
Herold, Edmund H, Bus.....Kent
Heron, Nellie, Sci.....Seattle
Herr, Jewel, LA.....Chehalis
Herre, Kirk T, LA.....Bellingham
Herren, Naomi Elizabeth, LA....Aberdeen
Herren, William Albert, LA.....Seattle
Herrick, Winifred, LA.....Seattle
Herschman, Joy, Sci.....Seattle
Hershey, Marie, Grad.....Starling, Ill
Hertz, Stuart B, LA.....La Center
Hervin, Carl H, Engr.....Seattle
Hesketh, R Bruce LD, BA.....Seattle
Hesseldenz, Dorothy, LA.....Portland, Or
Heuston, Emory Mark, LA.....Tacoma
Heuver, Herbert M, Fr, Engr.....Seattle
Hewitt, Alfred W, Bus.....Seattle
Heyburn, Frances Louise, FA....Bend, Or
Hicker, Eugene, UD, LA.....Seattle
Hickok George Allison, Engr....Bellingham
Hickok, Lloyd Allen, Engr.....Zillah
Hicks, Ethel D, Edu.....Seattle
Hieber, Charles Gordon, Bus.....Wilbur
Hiersch, Wilhelmina, LA.....Burton
Higgins, Marie, LA.....Chelan
Higgins, Wilma R, Bus.....Seattle
Higgs, Paul M, Grad.....Seattle
Highland, Herman, Phar.....Seattle
Hile, Gerald D, LA.....Seattle
Hill, Arthur, R, Bus.....Seattle
Hill, Esther L, LA.....Spokane
Hill, Helena, LA.....Seattle
Hill, John Regli, Jr, Engr.....Seattle
Hill, Kenneth P, Engr.....Zillah
Hill, Marie L, FA.....Seattle
Hill, Way Woody, FA.....Seattle
Hillman, George K, Jr, Engr.....Seattle
Hillman, Herbert, LA.....Seattle
Hillyer, Theo Frances, LA.....Yakima
Himes, Velna, LD, LA.....Hoquiam
Hinckley, Kathryn, FA.....Seattle
Hindmarsh, Albert Edward, LA....Seattle
Hing, Peter, Engr.....Portland, Or
Hinman, Grace, Sci.....Seattle

Hinman, Isla, FA.....Yakima
Hinsdale, Crockett, Fsh.....Seattle
Hirai, Takanaga, LD, LA.....Japan
Hirose, Ruby, Phar.....Auburn
Hirota, Teiko, LA.....Japan
Hirschman, Joy, LD, Sci.....Seattle
Hirtle, Eugene G, LD, BA.....Seattle
Hitchings, George H, Sci.....Seattle
Hitchman, Betty, LA.....Seattle
Hitt, Edward G, Engr.....Seattle
Hoag, Alberta, LA.....Bellingham
Hoard, Bert Verne, Grad.....Seattle
Hoard, James Lynn, Engr.....Seattle
Hoard, Mary G, Grad.....Seattle
Hobert, H W, Uncl, Engr...Spiritwood, ND
Hobert, Stephen C, Uncl, BA....Vancouver
Hobl, Helen, LA.....Aberdeen
Hochfeld, Alvin, LA.....Seattle
Hockersmith, Wendell, Engr.....Seattle
Hocking, Lillian K, LA.....Seattle
Hodges, Frederick C, Engr.....Seattle
Hodges, Mable E, Sci.....Enumclaw
Hofer, Dorothy P, LA.....Pasadena
Hoff, Alice, LD, BA.....Seattle
Hoff, Ebbe Curtis, Sci.....Bothell
Hoff, Hebbel C, Sci.....Bothell
Hoffman, Dorothy, LA.....Seattle
Hoffman, Florence B, LD, LA....Olympia
Hoffman, Lawrence W, LD, LA....Seattle
Hoffman, Marian, LA.....Seattle
Hofto, Glen Ellis, Engr.....Seattle
Hogge, Ernest Joseph, Sci..Okotoks, Canada
Hoh, Lin Kwai, Uncl, LA.....China
Holcomb, Vance R, Bus.....Kennewick
Holden, Frances, LA.....Yakima
Holden, Harold William, LA.....Everett
Holden, Margaret, LA....Idaho Falls, Ida
Holen, Olaf, Grad.....Tacoma
Holland, Alfred M, Sci.....Aberdeen
Holland, Helengrant, LD, LA.....Seattle
Hollmann, Henry Mertz, Phar.....Seattle
Holloway, Lucille, LA.....Seattle
Holm, Ivan H. Spec, BA.....Tacoma
Holman, Franklin J, Bus.....Elma
Holman, Harold E, For.....Seattle
Holmes, Dorothy, Sci.....Seattle
Holmes, Earl M, LD, LA.....Seattle
Holmes, Elinor, LA.....Centralia
Holmes, John H. LA.....Seattle
Holmes, Joseph Delaney, Law.....Seattle
Holmes, Merton, Sci.....Centralia
Holt, Ernest Ray, Engr.....Seattle
Holt, George A, For.....Tacoma
Holt, Harold James, Phar.....Seattle
Hone, Bernadette, LA.....Seattle
Hone, Walton, Bus.....Seattle
Hong, Anna, UD, FA.....Centralia
Honts, Manley, LA.....Seattle
Hooper, Eugene F, Law.....Seattle
Hooper, Louise, LA.....Winslow
Hooper, Ronald Otis, FA.....Seattle
Hopkins, Agnes M, LA.....Seattle
Hopkins, R Bruce, FA.....Seattle
Hopkins, Eugenia, LD, FA.....Seattle
Hopkins, George F, For.....Seattle
Hopkins, Herman F, Bus.....Seattle
Hoppaugh, Madeline L, LA..Salt Lake, Utah
Hopper, Edna, FA.....Seattle
Horlike, Koji, Bus.....Seattle
Horn, Erline, Engr.....Seattle
Horn, Raymond, LA.....Ritzville
Hornbeck, Marie, LA.....Seattle
Horne, Harold H, Bus.....Seattle
Horning, Allan E, Engr—Anchorage, Alaska
Hornum Marion J, For.....Olympia
Howard, Florence A, UD, FA.....Seattle
Howard, Frances H, UD, LA.....Seattle
Howe, Reuel L, LA.....Edmonds
Howe, Wilbur A, Engr.....Seattle
Howell, Iras C, FA.....Seattle
Hower, Melba M, LA.....Friday Harbor
Howley, Maxine Teresa, FA....Mt Vernon
Hoyendahl, Aagot, Spec, Sci.....Spokane
Hoyt, Donald R, LA.....Seattle
Hoyt, Dorothy A, Sci.....Seattle
Hoyt, Gordon M, Bus.....Oroville
Hoyt, Joseph B, Engr.....Seattle
Hoyt, Marguerite, LA.....Oroville
Hoyt, Verna M, Lib.....Seattle
Hrutiford, Diana, LA.....Duluth, Minn
Hsuch, Ting Mo, Edu.....China
Huang, P'ei K'un, Bus.....China
Huang, Yuan Chao, Sci.....China
Hubbard, Areline, LA.....Auburn
Hudson, Arthur J, Fr, Engr....Suquamish
Horowitz, Charles, LA.....Seattle
Horsfall, Frank J, LA.....Seattle
Horton, A Carmen, FA.....Spokane
Horton, Elizabeth E, FA.....Seattle
Horton, Leah L, Edu.....Elmira
Hoska, Helen Rogene, FA.....Tacoma
Hoskins, Francis Lee, Bus....Portland, Ore
Houston, LeRoy W, Bus.....Summer
Hoverson, Julius Charles,LA....Bellingham
Hovland, Harold K, Bus.....Coupeville
Howard, Catherine F, LA.....Seattle
Howard, Helen Elena, LA.....Stanwood
Howard, Norma Elizabeth, LA.....Seattle
Howard, C Wesley, Engr.....Lyman
Howe, Laurence, LA.....Waterville
Howe, Paul R, Bus.....Fall City
Hubbard, Ora E, Bus.....Klickitat
Hubbard, Procter, LA.....Seattle
Hubbell, Leslie, LA.....Spokane
Hudson, Donald, LA.....Bend, Or
Hudson, Robert D, LA.....Yakima
Huff, Calvin A, LA.....Monroe
Huff, Edyth B, LA.....Yakima
Huff, Henry S, Sci.....Seattle
Huffine, Charles Walter, Engr.....Seattle
Hufford, Charles F, Bus.....Tacoma
Huffard, Edson, Grad.....Seattle
Hughes, Mrs Babette P, LA.....Seattle
Hughes, Cecil Leonard, Grad.....Seattle
Hughes, Joseph L, Bus.....Wenatchee
Hughes, Kirby E, Engr.....Seattle
Hughes, Margaret, LA.....Tacoma
Hughes, Martha Ellen. LA.....Seattle
Hughes, Nicholas P, LA.....Southworth
Hughes, Owen P, LD, LA.....Tacoma
Hughes, Victor A, Bus.....Bellingham
Huguelet, Zeline, LD, Educ.....Seattle
Huhta, Elmer, Bus.....Grays Harbor
Huletz, Helen Marie, LA.....Seattle
Hull, James Devens, Engr.....Yakima
Hull, Marjorie. LA.....Seattle
Hulhouser, Margery Dorothy, LA....Selah
Hulme, Inez, LD, FA.....Seattle
Hultgren, Elart F, LA.....Sprague
Hummel, Bertha Royce, Grad.....Seattle
Humphrey, Elizabeth, LA.....Seattle
Humphrey, Viola, FA.....Seattle
Humphreys, Jack R, LD, LA.Greenwood, Mis
Hundal, Ikball Singh, Engr..Vancouver, BC
Hunt, Frances Clarke, LA.....Tacoma
Hunt, A Leigh, Sci.....Seattle
Hunt, Lowell E, LA.....Tacoma
Hunt, Norma, LA.....Kent
Hunt, Catherine P, Uncl, FA.....Spokane
Hunt, Ernest R, Grad.....Seattle
Hunt, Ruby H, LA.....Kennydale
Hunt, Thomas A, Engr.....Kent
Hunter, Betty May, Bus.....Seattle
Hunter, Julia G, UD, Educ.....Seattle
Hunter, Herschel C, LA.....Seattle
Huntington, Dan Riggs, Bus.....Seattle
Huntington, Walter L, For.....Mapleton
Huntley, Clark V, LD, LA.....Spokane

Huntley, W Ralph, Bus.....Spokane
Hurd, May, Edu.....Seattle
Hurlburt, Frances, Sci.Thompson Falls, Mt
Hurlburt, Wendell P, LA.....Spokane
Hurlbut, Clarence W, Fr, Engr..Bellingham
Hurley, James D, Engr.....Seattle
Hurspool, Evelyn, LA.....Walla Walla
Hurst, Myrtle Frances, LA.....Spokane
Huseby, Eunice M, LA.....Tacoma
Huson, J Wing, Bus.....Seattle
Huston, Anna May, LA.....Seattle
Hutcheson, Elwood, Law.....Montesano
Huston, J Victoria, Edu....Prineville, Or
Hutchins, Lewis R, LA.....Seattle
Hutchinson, Mary Joy, FA.....Seattle
Hutchison, Nell, LD, LA.....Seattle
Hutchinson, Robert P, Engr.....Tacoma
Hutchinson, Howard, Engr.....Seattle
Hwang, Thomas Slanghai, Grad.....China
Hyde, Floyd Davilla, Sci.....South Bend
Hyde, Helga, Sci.....Seattle
Hyde, Henry Knox, Bus.....Bellingham
Hyland, Edward H, Law.....Seattle
Hyland, Marianne F, LA.....Seattle
Hyland, Mary Adelaide, LA.....Seattle
Hyllengren, Henry, UD. BA.....Seattle
Hyllengren, Thomas, LD, LA.....Seattle
Hyndman, Beryl Kathleen, LA.Victoria, BC

Iddins, Earl I, Bus.....Sedro Woolley
Ikeda, Jubei, LD, BA.....Seattle
Ilett, Frank Kent, LA.....Seattle
Impoin, Eino John, LA.....Cathlamet
Imus, Henry Jerard, LA.....Kalama
Inches, Leona, LA.....Seattle
Indridson, Herman, Fsh.....Seattle
Ines, Marcisco Y, LA.....Philippines
Ingham, H Dewitt, Engr.....Seattle
Ingison, Lottie M, Edu.....Seattle
Inglis, Ralph, Bus.....Seattle
Inglis, Virginia Edna, FA.....Seattle
Ingram, Harold, Engr.....Seattle
Irish, E Elizabeth, Uncl, LA....Longview
Inkster, Harry, Grad.....Seattle
Ireland, Gertrude G, LA.....Seattle
Irvin, Merle C, LA.....Seattle
Irving, Helen C, Sci.....Seattle
Isaac, Elizabeth, LD, LA.....Seattle
Isaacs, LeRoy, LA.....Tacoma
Isom, M Dana, Bus.....Colville
Israel, Eli, Bus.....Seattle
Iversen Lyle, LD, LA.....Seattle
Ives, JLuella, LA.....Seattle
Ivey, Dorothy May, Sci.....Bellevue
Ivey, Samuel C, Bus.....Seattle

Jaccard, Paul A, Engr.....Malaga
Jacinto, Vicente S, Uncl, Sci..Philippines
Jacinto, Victorino N, LD, LA...Philippines
Jackson, Clarence A, LD, BA....Chehalis
Jackson, Delfer H, Bus.....Poulsbo
Jackson, Harold O, Bus.....Portland, Or
JacksonJesse M, Bus.....Boise, Ida
Jackson, Julia, LA.....Black Diamond
Jackson, Lillian, LA.....Black Diamond
Jackson, Otis C, Bus.....Walla Walla
Jackson, Paul J, LA.....Seattle
Jackson, Roy E, LA.....Portland, Or
Jackson, Virginia, LA.....Seattle
Jacobs, Ann, LD, LA.....Puyallup
Jacobs, Josephine, LA.....Seattle
Jacobsen, Beth S, LA.....Seattle
Jacobsen, Philip A, Engr.....Seattle
Jacobsen, Hans W, Bus.....Seattle
Jacobson, Duncan F, Sci.....Everett
Jacobson, Mary E, Sci.....Eatonville
Jacobson, Olga G, LA.....Seattle
Jacobson, Sam S, Bus.....Seattle
Jaeger, Julius P, Grad.....Spokane

James, Alfred, Bus.....Seattle
James, Flora, LA.....Seattle
James, Harriet Clara, Phar.....Seattle
James, Vivian Lee, LA....Pilot Rock, Or
Jamison, Marguerite, LA.....Manson
Jensen, Phyllis L, LA.....Seattle
Janson, Raymond, LA.....Seattle
Jardine, Nan T, LA.....Seattle
Jarvis, Norman D, Grad....Port Townsend
Jasper, Martin William, Min.....Spokane
Jay, Donald F, Engr.....Everett
Jeffers, H Maxine, FA.....Olympia
Jeffrey, Blanche, Grad.....Seattle
Jeffery, Florence H, LA.....Tacoma
Jeffery, Harold B, Engr.....Seattle
Jefferies, Wendell, Bus.....Seattle
Jellison, Arthur J, UD, For.....Seattle
Jenkins, Lester Purl, Bus.....Ellensburg
Jenkins, Louise, LA.....Raymond
Jenkins, Merrill, Grad.....Seattle
Jenks, Teodore Cook, Bus.....Seattle
Jenner, Evalene, LA.....Arlington
Jenner, Melvin A, Engr.....Arlington
Jennerson, Horace L, Sci.....Seattle
Jennings, Elizabeth, LA.....Seattle
Jennings, John W, LA.....Seattle
Jensen, Arne Sigurd, Grad.....Seattle
Jensen, Charlotte, LA.....Walla Walla
Jensen, J Ebbe, Engr.....Spokane
Jensen, Ellem Marie, LD, Sci....Bellevue
Jensen, George G, Engr.....Bellevue
Jensen, Helen M, FA.....Seattle
Jensen, Henrietta Mae, LD, BA.Ellensburg
Jensen, Howard R, Bus.....Spokane
Jensen, Irene Margaret, LA...Emmett, Ida
Jensen, Julie, LA.....Esmond, ND
Jensen, Kai, Grad.....Seattle
Jensen, Leo Severyn, Bus.....Lynden
Jensen, G Leslie, Engr.....Ellensburg
Jensen, Marian Gullette, Grad.....Everett
Jensen, Olive, LA.....Joplin, Mont
Jensen, Theodore J, Phar.....Bellingham
Jensen, William Stephen, Bus.....Seattle
Jergensen, Emma Louise, LA.....Seattle
Jerome, Margaret Rose, LA.....Seattle
Jerome, William J, Grad.....Seattle
Jessen, Christine, Sci.....Seattle
Jessup, Clara B, LA.....Bremerton
Jewell, Earle Dool, Bus.....Granite Falls
Jewell, Mildred R, FA.....St John
Jewett, Elsie K, FA.....Vancouver
John, S Helen, Grad.....Walla Walla
Johns, Harold Nash, Bus.....Tacoma
Johns, Loeta Lois, LA.....Seattle
Johnsen, Pauline, Bus.....Spokane
Johnson, Adelia, Grad....Minneapolis, Minn
Johnson, Adolph Edwin, Engr.....Enumclaw
Johnson, Allen F, Bus.....Charleston
Johnson, Anna E, LA.....Seattle
Johnson, Arthur B, Engr.....Everett
Johnson, Arthur F, Sci.....Seattle
Johnson, Benjamin F, Bus.....Aberdeen
Johnson, Bernice M, LD, LA.....Seattle
Johnson, Bertil E, LA.....Tacoma
Johnson, Carl G, LA.....Bellingham
Johnson, Carl H. Sci.....Tacoma
Johnson, Carl M, Bus.....Seattle
Johnson, Charles A, Uncl, Engr.....Seattle
Johnson, Clifford N, LA.....Selah
Johnson, Elizabeth, FA.....Everson
Johnson, Elmer G, LA.....Seattle
Johnson, Elmer M, LA.....Enumclaw
Johnson, Elmer William, Bus.....Everett
Johnson, Eloise, LA.....Seattle
Johnson, Esther M, LA.....Seattle
Johnson, Fletcher O. Bus.....Seattle
Johnson, Florence A, Grad.....Puyallup
Johnson, Francis L, For.....Everett
Johnson, Frederick A, Jr, Engr.....Seattle
Johnson, Hall LaBarre, LA.....Seattle

Johnson, Harold A, Bus.....Walla Walla
Johnson, Helen H, UD, LA...Superior, Wis
Johnson, Herbert L, Bus.....Winslow
Johnson, Herman, Engr.....Pt Ludlow
Johnson, Howard A, Engr.....Pearson
Johnson, Irene C, LA.....Seattle
Johnson, James Albert, Engr.....Seattle
Johnson, Jeanette E, LA.....Everett
Johnson, Joseph N, LD, LA....Silverdale
Johnson, Kenneth Albert, Bus.....Seattle
Johnson, Lorenz C, LA.....Seattle
Johnson, Louisa Isabelle, Sci.....Seattle
Johnson, Melvin E, Jr, Engr.....Spokane
Johnson, Milton S, LA.....Seattle
Johnson, Myrtle D, LA.....Hillyard
Johnson, Nels George, Bus.....Puyallup
Johnson, Nora Howarth, Sci.....Cle Elum
Johnson, Norman, UD, Sci.....Seattle
Johnson, Oliver B, Engr.....Seattle
Johnson, Otis J, For.....Seattle
Johnson, Paul Austin, Phar.....Seattle
Johnson, Paul W, Bus.....Spokane
Johnson, Mrs Queenia G, LA.....Seattle
Johnson, Ralph, LA.....Tacoma
Johnson, Ray Loyd, LA.....Seattle
Johnson, Raymond A, LA.....Hoquiam
Johnson, Raymond Frank, Edu.....Seattle
Johnson, Rex H, LA.....Seattle
Johnson, Robert W, Bus....Helena, Mont
Johnson, Roberta, FA.....Olympia
Johnson, Selma J, LD, BA..Richmond Beach
Johnson, Sylvia, Grad.....Ilwaco
Johnson, Sylvia Munroe, LA..Superior, Wis
Johnson, Victor, Phar.....Chester
Johnson, Vivian H, Uncl, LA.....Olympia
Johnston, Gladys, LA.....Seattle
Johnston, James G, Min.....Yakima
Johnston, Robert V, Bus.....Arlington
Joliffe, John P, Soph, Engr.....Tacoma
Jolly, Elma, LD, LA.....Seattle
Jones, Bernice, LA.....Seattle
Jones, Carolyn O, LA.....Portland, Or
Jones, Charlotte A, LA.....Seattle
Jones, Dorothy, LA.....Tacoma
Jones, Elizabeth Spalding, LA.....Seattle
Jones, Essie E, LA.....Wenatchee
Jones, Estelle E, LA.....Lawton
Jones, Frances Eleanor, LA.....Seattle
Jones, George F, LA.....Seattle
Jones, Gladys L, Phar.....Everett
Jones, Gracia O, LA.....Seattle
Jones, Ione Louise, LA.....Hoquiam
Jones, Irene, LA.....Pt Orchard
Jones, Jarrett C, Bus.....Stevenson
Jones, Leola Grace, Sci.....Seattle
Jones, Luella E, Edu.....Seattle
Jones, M, B, Engr.....Elma
Jones, Margaret Bell, Grad.....Seattle
Jones, Mildred Elinor, LA.....Waterville
Jones, Reginald, LA.....Seattle
Jones, Stanley Ernest, Bus.....Spokane
Jones, Shepard F, Bus.....Seattle
Jones, Stephen Barr, Grad.....Seattle
Jones, Winston J, Bus.....Tacoma
Jordan, Andrew A, LA.....Seattle
Jordan, Frances M, FA.....Mary Hill
Jorgensen, Erna, LA.....Seattle
Jorgensen, Evelyn, Phar.....Bellingham
Jorgensen, H M, Engr...Three Forks, Mont
Jorgensen, Lucille Tweed, Grad....Seattle
Jorgensen, Paul Simon, Phar.....Selah
Joseph, H Burton, For.....Seattle
Joseph, Jean, Bus.....Seattle
Joslin, Margaret, LA.....Seattle
Joubert, Edward R, LA.....Seattle
Joy, Fay A, LD, For.....Seattle
Joy, George C, For.....Seattle
Joyce, Benjamin William, Bus.....Seattle
Joyce, Robert Wallace, Engr.....Seattle
Joyner, Elizabeth Ann, LA.....Spokane
Judd, Margaret Monica, LA.....Seattle
Judd, Marie, LA.....Tacoma
Judkins, David H, For.....Seattle
Judkins, Malcolm, Engr.....Seattle
Judson, Esther Eleanor, LA....Oak Harbor
Junet, Tille Victoria, LA.....Poulsbo

Kaan, Yom Tsin, Bus.....China
Kahin, Helen A, Grad.....Seattle
Kahlke, Peter Nicholas, Bus.....Seattle
Kahn, Fred, Bus.....Oakland, Cal
Kainulainen, Eino Matt, Engr.....Pearson
Kaiser, Mrs Alice Hicks, LD, LA..Ellensburg
Kaiser, Fred H, Sci.....Rolling Bay
Kakela, Hugo Erland, Engr.....Winlock
Kalal, Dan, LA.....Seattle
Kalenius, Charles O, Bus.....Hoquiam
Kalk, Mary, FA.....Seattle
Kallgren, Philip A, Sr, Engr.....Hail
Kamb, Floyd, LA.....Mt Vernon
Kamb, Leona, Sci.....Mt Vernon
Kamb, Walter, LA.....Mt Vernon
Kamhoke, Melba L, LD, BA....Waterville
Kan, Yun, For.....China
Kane, Cecilia, FA.....Auburn
Kane, E Kent, Law.....Kane, Penn
Kane, Margaret M, LA.....La Center
Kanges, Ida Frances, LA.....Rochester
Kantner, Jean W, LA.....Seattle
Kao, Chin Chi, Bus.....Java
Kao, Tsi Yu, Sci.....China
Karr, Herbert S, Engr.....Seattle
Karrer, Lawrence E, Engr.....Seattle
Kassebuam, Karl F, LA.....Seattle
Katayama, Elmer, Bus.....Seattle
Kauffman, Clayton, Bus.....Mabton
Kaufman, Doris, Sci.....Aberdeen
Kaulum, Dwight N, Bus.....Seattle
Kautz, Edith Mary, Bus.....Seattle
Kavanaugh, Clarence Edward, FA...Seattle
Kavanagh, Jean Al, Uncl, Fish.Quebec, Can
Kayser, Beatrice, LA.....Goldendale
Kazankin, Sergei, Uncl, Engr.....Russia
Keading, Lewis Charles, Engr....Hoquiam
Kean, James P, Bus.....Mt Vernon
Keating, John D, Uncl, BA.....Seattle
Keefe, Robert M, Bus.....Snohomish
Keeler, G Hammond, Bus.....Sequim
Keelen, Harris B, Uncl, BA.....Seattle
Kellum, Jesse M, LD, BA.....Seattle
Kelly, Robert A, Fresh, Engr.....Seattle
Keeney, Leo DE Long, Fsh.....Bothell
Keilholtz, Ruth W, Edu.....Seattle
Keith, Edward Theodore, Engr.....Seattle
Keith, Ted, Engr.....Battleground
Keith, Elva Ina, FA.....Seattle
Keller, Austil, LA.....Olympia
Keller, Dorothy Margaret, LA.....Spokane
Keller, Edwin Lloyd, LA.....Aberdeen
Keller, Lawrence Marion, LA....Olympia
Kelley, Albert Henry, LA.....Seattle
Kelley, Blanche, FA.....Seattle
Kelley, John E, LA.....Seattle
Kelley, Lewis P, Bus.....Walla Walla
Kelley, Warren T, Engr.....Wapato
Kellogg, Harold E, Bus.....Seattle
Kellogg, Marian, LA.....Hoquiam
Kellogg, Marion C, FA.....Seattle
Kellogg, Orlo, Law.....Seattle
Kelly, Alice Anne, FA.....Newport
Kelly, Emmet, Engr.....Seattle
Kelly, Evelyn L, Sci.....Seattle
Kelly, Kathleen Eileen, FA.....Spokane
Kelly, M Kathryn, LA.....Seattle
Kelly, Norman M, LA.....Walla Walla
Kelly, Virginia Villars, LA....Walla Walla
Kelso, Kenneth K, LA.....Seattle
Kemper, Phyllis J, Bus.....Seattle

Kennedy, Alice R, FA.....Clarkston
Kennedy, Edna C, Spec, FA.....Seattle
Kennedy, Elizabeth, LA.....Seattle
Kennedy, Peter J, FA.....Pe Ell
Kennedy, William Edward, Bus...Coupeville
Kennedy, Wesley M, Engr.....Seattle
Kenny, Helen, Sci.....Olympia
Kent, Vera Elizabeth, Bus.....Centralia
Kenyon, Juanita, LA.....Bremerton
Keplinger, Lawrence M, LA....Bellingham
Kepp, Karl H, Sr, Engr.....Seattle
Kerr, Charlotte, FA.....Seattle
Kerns, Elmer C, Bus.....Corfu
Kerns, Homer, Soph, Engr.....Seattle
Kerr, Edna, LA.....Mt Vernon
Kerr, Elizabeth, LA.....Seattle
Kerr, John Leeds, LA.....Seattle
Kerr, William, LD, BA.....Seattle
Kerry, Albert S, LA.....Seattle
Kerwin, Mary Catherine, FA.....Seattle
Kerzie, August Francois, Engr.....Seattle
Kessler, Kate McDowell, LA....Ft Worden
Ketcham, Laura, LA.....Seattle
Ketcham, Mary Virginia, FA.....Seattle
Ketchum, Leland Hoskins, LA....Enumclaw
Ketchum, Nadine, LA.....Spokane
Kettenring, Grace, Sci.....Vancouver
Khvoroff, Victor I, Engr.....Seattle
Kiehl, Clarence I, Bus....Livingston, Mont
Kiehl, Corynn Phyllis, FA.....Seattle
Kiehl, Harold E, Bus.....Seattle
Kienholz, Mabel I, FA.....Spokane
Kilgas, Carl A, Bus.....Puyallup
Kilgore, Carleton Virgil, LA.....Seattle
Kilkenny, Mrs Mable, UD, Educ....Seattle
Kilkenny, Rose H, Uncl, FA...Heppner, Or
Kilkenny, William P, Bus.....Heppner
Kilworth, Wesley, FA.....Seattle
Kim, Tehsoo R, Engr.....Korea
Kimball, Stanley G, LA.....Methow
Kimball, William A, LA.....Tacoma
Kimball, William B J, LA.....Seattle
Kimble, Marion George, LA.....Seattle
Kimmel, Shirley Brooks, Bus.....Spokane
Kimple, William A, Sci.....Seattle
Kimura, Tadao, LA.....Seattle
Kimura, Koreaki, LA.....Seattle
Kindred, Worth L, Fresh, Engr.....Seattle
King, Charles E, Uncl, LA....Bellingham
King, Eleanor Virginia, Sci.....Seattle
King, Esther, LA.....Seattle
King, Florence Loetitia, Edu.....Seattle
King, Frank William, Sci.....Seattle
King, James G, LA.....Seattle
King, John Lawrence, LA.....Seattle
King, Jean Paul, LA.....Seattle
King, Marianne, Grad.....Seattle
King, Phil John, Engr.....Seattle
King, Robert Maxwell, LA.....Seattle
King, Robert W, Bus.....Seattle
King, Winchester, Engr.....Seattle
Kingman, M Keith, LA.....Chelan
Kingston, George Ross, Sci.....Seattle
Kingston, Ross N, LA.....Seattle
Kinkade, Russell W, LA.....Forsyth
Kinnane, Eileen, LA.....Seattle
Kinnee, William Richard, Phar.....Seattle
Kinsey, Helen, LA.....Seattle
Kinsey, Ronald C, LA.....Seattle
Kinzel, Maurice W, LD, LA.....Seattle
Kirby, Cleo L, Bus.....Cle Elum
Kirk, Douglas G, Bus.....Everett
Kirk, Thomas B, Engr....Snoqualmie Falls
Kirner, John Fowler, Engr.....Sequim
Kirsch, John Bernard, Bus.....Seattle
Kirshner, Ora, LD, LA....Portland, Or
Kitteringham, G M, Sci.....Vancouver, BC
Kittrell, Jack W, LA.....Everett
Kitzinger, Beatrice, LA.....Aberdeen
Klatt, Elmer M, Engr.....Tacoma
Klaus, Charles E, Engr.....Seattle
Kleinberg, Beatrice B, FA.....Seattle
Kleinberg, Lena, LA.....Seattle
Kleinlein, Esther, Sci.....Seattle
Klemptner, Ellen, LA.....Seattle
Klise, Katherine Storm, Sci.....Yakima
Klock, Lois Adele, LA.....Seattle
Knapp Eva G, UD, Educ.....Seattle
Knievel, Anton John, Bus.....Butte, Mont
Knight, Charles W, Bus.....Spokane
Knight, Dula, LD, FA.....Vancouver
Knight, Jean Nairns, LA.....Seattle
Knighton, Blanche, Bus.....Omak,
Kniseley, John M, Engr.....Seattle
Knosher, Vernon William, LA.....Loomis
Knouse, Marjorie Arnold, FA.....Seattle
Knowles, Chadwick D, Bus.....Seattle
Knowles, Dale Isabele, LA.....Edmonds
Knox, William A, Grad.....Ferndale
Knudson, Laura, Sci.....Spokane
Knuth, William E, Grad.....Spangle
Knutsen, Clarence M, Bus.....Everett
Knutson, Glynne, Fsh.....White Salmon
Knutson, Louise Marie, FA.....Seattle
Koch, Fred C, Jour.....Ritzville
Koch, Samuel, Grad.....Seattle
Koenig, John Frank, Phar.....Tacoma
Koert, Peter, LA.....Lynden
Koester, Anthony C, LA.....Seattle
Kohagen, Walter Melvin, Bus.....Yakima
Kohlander, Margareta, LD, Sci.....Seattle
Kohne, Elliott, LD, Pharm.....Everett
Koitabashi, Chika, LD, FA.....Seattle
Koitabashi, Tom Y, LA.....Seattle
Koivula, Elmer C, Min.....Seattle
Kokko, Ida, LA.....Pearson
Kolle, Robert A, Fresh, Engr.Vancouver, BC
Kondo, Tokuo, Bus.....Seattle
Kongsle, Edward, Grad.....Port Angeles
Konstantinoff. Zena, Sci.....Russia
Konzo, Seichi, Engr.....
Kooshelevsky, Eugene R, Fresh, Engr.Seattle
Kopika, Irja Hyne, FA.....Seattle
Koppang, Given A, Bus.....Spokane
Koppel Simon S, Bus.....Boise, Ida
Korol, Alexander G, Engr.....Seattle
Korter, Irene Lizzett, Edu.....Seattle
Kortman, Ellard, For.....Ft Bragg, Cal
Kossiakoff, Ivan T, Engr.....Seattle
Koth, Everett Francis, Sci.....Odessa
Kotick, Ottmar, Sci.....Olympia
Krabbe, Johan, Sci.....Bellingham
Krakenberg, Myra, Uncl, FA.....Kirkland
Kramer, Ferdinand, LA.....Ritzville
Kraus, Ada M, Grad.....Seattle
Krause, Arthur, LA.....Seattle
Krause, August, Engr.....Seattle
Krause, Laura, LA.....Gladstone, Or
Krauss, Sophie Marks, Grad.....Seattle
Krauter, Orlo W, For.....Newport
Kravik, Knut Ernest, LA.....Everett
Kreger, George Henry, Engr.....Tacoma
Krengel, Walter F, LA.....Seattle
Kretchmann, Herbert F, Jour.....Seattle
Kretchmar, George Gustav, Grad....Seattle
Kretchmar, Luella L, Sci.....Seattle
Kretsinger, Helen M, LA.....Seattle
Kreger, Bernice R, LA.....Portland, Or
Kroetch, Gertrude Clarie, FA.....Spokane
Kropp, Henry J, LD, BA.....Seattle
Kruger, Hans Axel, LA.....Seattle
Krumm, Hulda Emily, FA...Woodman, Wis
Kuebler, Lowell Albert, Engr.....Seattle
Kuechenberg, Marie, LD, FA.....Seattle
Kuei Mei, Chen, Bus.....China
Kuhefuss, Helen, Sci.....Wenatchee
Kuhn, Edwin E, Bus.....Spokane
Kulick, Faust J, Fresh, Engr.....Seattle

Kullberg, Jule Helen, FA.....Seattle
Kunz, Eugene Leslie, Bus.....Seattle
Kuppler, Virginia, Edu.....Pt Angeles
Kurland, George J, LD, BA.....Seattle
Kurokawa, Fumi, LD, FA.....Seattle
Kurz, Gertrude, Uncl, BA.....Seattle
Kushelevsky, Stephen R, Bus.....Seattle
Kushnareff, Antonia, Fresh, BA....Seattle
Kuykendall, Berdina, LA.....Olympia
Kvindlog, Dorothy, FA.....Bothell
Kwapil, Dorothy, LD, LA.....Seattle
Kwapil, Richard, Bus.....Seattle
Kyle, James Henreson, LA.....Seattle

La Brache, W C, LD, LA.San Francisco, Cal
Lade, Dorothy Helen, Sci.....Spokane
LaFollette, Marion B, Engr.....Seattle
Lafranchi, Vincent, Sci.....Seattle
Lafromboise, Clarence B, Bus....Enumclaw
Laidlay, Lucile, LA.....Puyallup
Laing, Edward E, Bus.....Anacortes
Lamb, Lowell R, Engr.....Seattle
Lambert, Jean, Grad.....Seattle
Lamont, Mrs Vivian Effinger, Grad..Seattle
La Motte, James C, Sci.....Seattle
Lamson, Joseph V, Engr.....Seattle
Lamson, Mrs Maude H, LA.....Seattle
Lancaster, Leland H, Bus.....Elma
Lancaster, Stuart, LA.....Selah
Landeck, Violet Maud, LA.....Blaine
Landeen, Herbert Axel, Bus.....Seattle
Landon, Herbert, LA.....Seattle
Lane, Glen L, Engr.....Boyds
Lane, Walter Byron, Law.....Seattle
Lane, William C, BUS.....Mercer Island
Laney, Audrey B, LA.....Lamona
Lang, Fred L, LA.....Minneapolis, Minn
Lang, Joseph William, Engr.....Yakima
Langdon, Bessie Derr, LA...Clarksfork, Ida
Lange, Bernice E, LA.....Vancouver, BC
Lange, Theodore W, LA.....Wenatchee
Langford, Fred T, Engr.....Spokane
Langlie, Arthur B, Law.....Seattle
Langlow, Wesley, Law.....Tacoma
Langhorne, Clifford M, Law.....Tacoma
Langridge, Robert T, LA.....Olympia
Lanigan, Edward J, Bus.....Seattle
Lanken, Nicolas T, Fresh, Engr....Seattle
Lanning, Oscar D, Engr.....McCleary
Lansdowne, Elizabeth, FA.....Everett
Lansdown, Lois, FA.....Everett
Lanser, John P, Bus.....Seattle
Lantz, Harold, Uncl, BA.....Spokane
Lapham, Kathryn E, LA.....White Bluffs
La Plant, Mary, LA.....Sedro Woolley
Large, Joseph G, Engr.....Seattle
Larkin, Jack Allen, LA.....Spokane
Larkin, Lucretia Starr, LA.....Seattle
Larkin, Mrs Virginia M, Grad.....Seattle
Larkin, William J, Engr.....Seattle
La Rocque, Rene, For.....Kellogg, Ida
Larsen, Christian A, LD, BA.White Salmon
Larsen, Lloyd, Engr.....Portage
Larson, David R, Bus.....Seattle
Larson, Edwin E, Engr....South Prairie
Larson, Gustav, Grad.....Seattle
Larson, Helen Lorada, FA.....Seattle
Larson, Lou Clair, Grad.....Seattle
Larson, Oscar, LA.....High Point
Larson, Richard Carl, Bus.....Seattle
Lassek, Arthur M, LD, Sci.....Seattle
Lassfolk, Hazel I, LD, LA.....Seattle
Latham, John Marshall, Engr.....Seattle
Lathrop, Alice P, Grad.....Portland, Or
Lathrop, Grace S, Uncl, LA....Vancouver
Latimer, Margaret, LA.....Seattle
Latimer, Ray N, LA.....Seattle
Latimer, Vernon G, LA.....Seattle
Latta, Robert N, Bus.....Seattle
Laube, Florence M, LA.....Seattle
Laubscher, Edith, Sci.....Seattle
Laubscher, Ruth, LA.....Seattle
Lauder, Arthur Donald, Bus....Pt Roberts
Lauer, Charles Eugene, LA.....Seattle
Lauer, Edna W, LA.....Odessa
Laughbon, Lawrence K, Edu....Davenport
Lauzon, Romuald Keith, For.....Lowell
Lavery, Earl J, Phar.....Seattle
La Vigne, Joseph L, Law.....Chewalah
La Vigne, Naomi, LA.....Seattle
La Vine, Gladys, LA.....Seattle
Lavroff, Laura, LA.....Tacoma
Lavroff, Lillian, LA.....Tacoma
Lawen, Amalia, LA.....Seattle
Lawler, Loretta, Edu.....Raymond
Lawrence, Arta F, LA.....Everson
Laws, Charles H, LA.....Tacoma
Lawton, Louise, LA.....Cheney
Lawton, Muriel, Edu.....Cheney
Lawwill, A Llewellyn, Phar.....Montesano
Lawwill, Don Francis, LA.....Montesano
Layton, Mildred G, LD, LA.....Tacoma
Lea, William O, Bus.....Olympia
Leach, Shirley W, Bus.....Olympia
Leaf, Helen Veva, FA....Lake Forest Park
Leak, Lloyd, Engr.....Le Grand
Leamon, Tom, LA.....Seattle
Learned, Allan M, LA.....Hadlock
Leas, Donald Russell, Engr.....Index
Leathers, Arthur, LA.....Seattle
Leatherwood, William F, LA....Burlington
Leavers, Luke L, LA.....Wenatchee
Leavitt, Ruth, LA.....Puyallup
Lebedeff, Yurii, Min.....Japan
Le Compte, Maurice, Bus.....Lynden
Lee, Arthur L, LD, Fish.....North Bend
Lee, Artroudoe L, Law.....Seattle
Lee, Anges Jean, Sci.....Everett
Lee, Elsie, Sci.....China
Lee, Frank A, LD, Pharm.....Seattle
Lee, Hop Ping, Sci.....China
Lee, Percy M, FA.....Tacoma
Lee, Robert E, Jr, Sr, Mines.....Seattle
Lee, Vernet C, Edu.....Pt Madison
Leebhoff, Herbert, LA.....Seattle
Leeper, Agnes, LA.....Seattle
Leeper, Marion, Edu.....Seattle
Leevers, Harold, Engr.....Everett
Lefebvre, Aimes, UD, Educ.....Seattle
Legg, Audrey, LA.....Seattle
Lehman, Arnold, Phar.....Seattle
Lei, Yuen Tsann, Sci.....China
Leib, Rachel B, Sci.....Seattle
Leicester, Morton George, Bus....Puyallup
Leidy, Eugene, Bus.....Toppenish
Leifson, Gunnar, Grad.....Fargo, ND
Leighton, Roy S, Bus.....Seattle
Leiserovitch, Alexander, Engr.....Seattle
Leissler, Frederick, FA...Lake Forest Park
Leitch, Marjorie, FA.....Seattle
Leitner, Leopold, Engr.....Camp Lewis
Leland, Albertine, Bus.....Clarkston
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Lemcke, Agnes, LD, LA.....Seattle
Lemenager, Raymond, Bus.....Seattle
Lemley, Elizabeth, LA.....Tacoma
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Lemon, Ella, FA.....Seattle
Le Neve, Nina, LA.....Seattle
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Lent, Harold D, Sci.....Bremerton
Leon, Gordon H, Sci.....Seattle
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Leong, Kingfrankton F, Engr Vancouver, BC
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Leslie, Anna, LA.....Seattle
Lester, Verna May, LA....Miles City, Mont
Lev, Lester Louis, LA....Los Angeles, Cal
Leverenz, Naydene Dorothy, LA...Puyallup
Levinson, Elsa K, FA.....Chehalis
Levinson, Herbert, Bus.....Seattle
Levinson, Sam I, Law.....Tacoma
Levinson, Sol, Phar.....Seattle
Levitin, Morris, Engr.....Seattle
Levy, Harold P, LA.....Seattle
Levy, Harry M, Uncl, LA.....Seattle
Levy, Leah Fay, FA.....Seattle
Lewarch, Alma E, LA.....Seattle
Lewis, Charles H, Phar.....Seattle
Lewis, Clarke R, LA.....Aberdeen
Lewis, Clyde L, LA.....Raymond
Lewis, Edward M, Engr.....Seattle
Lewis, Fred A, Bus.....Ritzville
Lewis, George William, Engr.....Seattle
Lewis, Grace Elizabeth, LA.....Seattle
Lewis, Hubert P, Bus.....Aberdeen
Lewis, James W, Engr.....Seattle
Lewis, Josephine, LA.....Seattle
Lewis, Kathleen G, Lib....Vancouver, BC
Lewis, Leon, Sci.....Seattle
Lewis, Lloyd, Engr.....Seattle
Lewis, Margaret, LA.....Seattle
Lewis, Mrs Marjory, Grad.....Seattle
Lewis, Palmer Gates, Engr.....Seattle
Lewkowitz, Dorothy, LD, LA.....Spokane
Leytze, Catherine M, LA...Independence, Ia
Liang, Ching-Cheum, Grad.....China
Libbee, Frances Alice, FA.....Seattle
Libert, Norman F, Fresh, Pharm..Spokane
Licorenko, A, Engr.....Seattle
Lightheart, Henry A, Bus.....Seattle
Lillis, Dan C, Engr.....Tacoma
Lillis, Jack Jr, Bus.....Wenatchee
Lillquist, Elma, LA.....Seattle
Lilly, Donald R, Engr.....Bridgeport
Limbach, Dorothy Helen LA.....Seattle
Lincoln, Mildred, LA.....Seattle
Lincoln, Roland L, Engr.....Seattle
Lincoln, Zaida, Sci.....Seattle
Lind, Andrew, Grad.....Seattle
Lindgren, Bert Edwin, Bus.....Bothell
Lindh, Nels G, For.....Sultan
Lindholdt, Alfred, LA.....Seattle
Lindholm, Eric N, LD, LA.....Seattle
Lindhout, Cornelius, Uncl, BA....Arlington
Lindsay, Ralph E, LD, For.....Olympia
Lindsey, Joaquin, For.....East Stanwood
Lindstedt, H Oscar,Edu.....Seattle
Lindstrom, Gertrude H M, Sci.....Seattle
Linton, Geraldine M, LD, LA.....Seattle
Linville, Clyde W, LA.....St John
Lippmann, Edith, LA.....Seattle
Lippy, John E, FA.....Seattle
Lipski, Anthony Paul, Sci..Old Forge, Pa
Lipsky, Beth Marie, LA.....Seattle
Lister, George V, Bus.....Seattle
Littell, Max E. Bus.....Scottsburgh, Ind
Little, Agnes M, LA.....Emmett, Ida
Little, Earle B, UD, BA.....Chelan
Little, Evelyn M, Edu.....Tacoma
Littlefield, Lena, FA.....Seattle
Jackson, Bus.....China
Liu, Shun-Tsung, Bus.....China
Lively, Philip M, Bus.....Seattle
Livengood, W Joe, LA.....Seattle
Livingston, Louis S, UD, LA.....Winlock
Loacker, Waldemar J, LA.....Seattle
Lobdell, Charlotte E, UD, Educ....Monroe
Lochte, William A, Engr.....Seattle
Lockard, Edith F, LD, LA.....Seattle
Lockard, Louise, LA.....Seattle
Lockwood, Edward M, LA.....Bremerton
Loe, Elsie, LD, LA.....Seattle
Lofgren, Frederick V, Grad.....Seattle
Logan, Lorna, LA.....Seattle
Logan, Robert W, LA.....Seattle
Logg, Florence M, Phar.....Seattle
Loh, Richard, Sci.....China
Lohse, Blanche Louise, LA.....Seattle
Loken, Clarice, FA.....Seattle
Lombard, Eunice Wilson, LA.....Yakima
Lombard, Henry H, Uncl, Engr.....Yakima
Lombardine, Herbert, LD, Pharm...Seattle
Loncke, Madeline Rachel, Bus.....Summer
Lonctot, H Melvin, Sci.....Yacolt
London, Francis Melvin, Engr.....Malaga
Lonergan, Thyra, LA.....Seattle
Loners, Harry, FA.....Seattle
Long, Gladys, LA.....Pt Angeles
Long, James Glenn, Engr.....Seattle
Long, Rill Hart, Engr.....Montpelier, Ida
Long, Stanley B, LA.....Chehalis
Long, William D, Uncl, BA.....Aberdeen
Longabaugh, Carol, LD, BA.....Seattle
Lonheim, Alton M, LA.....Everett
Lonseth, Herbert C, Sci.....Seattle
Loosanoff, Victor, Fsh.....Seattle
Lopez, Russell E, LD, BA.....Chicago, Ill
Lorah, James R, Grad.....Seattle
Lord, Helen E, LA.....Olympia
Lormor, Frances Lurline, LA.....Seattle
Loudenback, Ivan, Bus.....Seattle
Loudenback, Mildred, LD, LA....Wenatchee
Louge, Richard Webster, Sci.....Seattle
Loughead, Eleanore, LA.....Seattle
Loughlen, Paul E, Bus.....Puyallup
Louis, Lillian Gene, LA.....Seattle
Louis, Victoria, LA.....Benton
Love, William, LA.....Seattle
Lovejoy, Mrs Cecyl B, Grad.....Seattle
Loving, Marianne, LA.....Haines, Alaska
Low, Josephine, Sci.....Lowden
Lowe, Helen Y D, LA.....Victoria, BC
Lowenstein, Bernard, Bus.....Seattle
Lowman, Lucille B, Bus.....Anacortes
Lowman, Vivien Guy, Edu.....Seattle
Lowrie, Ruth, Sci.....Seattle
Lowry, Edmund, Bus.....Chehalis
Lowry, Lewis, Engr.....Seattle
Lucas, Eustaquio, Engr.....Philippines
Lucas, Clarence, Fsh.....Seattle
Lucas, Harriet, LD, LA.....Everett
Lucas, Marian, LA.....Seattle
Luce, Daisy A, Uncl, Sci.....Seattle
Luckerath, Carl, LA.....Seattle
Lucus, Helen M, LA.....Bremerton
Ludington, Kathryn Lee, LA....Wenatchee
Ludwig, Engene F, Engr.....Seattle
Luecken, Carl A, Sci.....Spokane
Luft, Max Engr.....Bremerton
Luithlen, Aurelia Mann, LA.....Seattle
Lukens, Fred M, Min.....Seattle
Lund, John Grant, Law.....Seattle
Lundell, Signe, LA.....Issaquah
Lundquist, Ellen Mae, Phar.....Seattle
Lungreen, Rolfe P, For.....Seattle
Lunke, James R, LA.....Seattle
Lunn, Donna, Bus.....Seattle
Lunn, Lois J, FA.....Seattle
Lunnum, Anna Joan, LA.....Silvana
Lunnum, Knut, For.....Silvana
Lurie, Manuel, Law.....Seattle
Lust, Harold William, Min.....Tacoma
Luthy, Marion S, LA.....Seattle
Lutz, Helen Dorothy, FA.....Seattle
Lycette, Edythe E. FA.....Spokane
Lycette, Mrs Julia L, Law.....Seattle
Lym, La Verne Loy, LA.....Ellensburg
Lynch, Elizabeth, LD, LA.....Seattle
Lynch, Gertrude, LA.....Wessington, SD
Lynch, Herbert C, Sci.....Yakima
Lynch, James L, Bus.....Seattle
Lynch, Paul G, LA.....Seattle

Lyon, Mrs Marie Howarth, Grad....Seattle
Lyons, Harry Albert,.....Seattle
Lyons, James F, Bus.....Seattle
Lyons, Perry S. Bus.....Seattle
Lytle, Walter Wade. LA.....Seattle

MacAdams, William B, Bus.....Seattle
McAllister, Geraldine, LA.....Seattle
McAnally, Carrie, LA.....Yakima
McAnally, James F, Sci.....Puyallup
McAneny, John M, Engr.....Seattle
McAssey, Clyde, LA.....Seattle
McAssey, Dollie, Sci.....Seattle
MacAulay, Verna, LA.....Seattle
McAuley, William L, Bus.....Seattle
MacBain, Donald Keith, Bus.....Everett
McBarron, Eleanor M, LA.....Seattle
McBarron, Lorette M, LA.....Seattle
McBee, Marian, LA.....Seattle
McBride, Mathew B, LA.....Seattle
McCabe, Helen D, Edu.....Seattle
McCain, Mildred, LA.....Seattle
McCall, Edith Avarilla, LA.....Bremerton
McCall, Elizabeth F, LA.....Pixley, Cal
McCallum, Donald S, LA.....Summer
McCane, Ames, Engr.....Seattle
McCann, George, Engr.....Victoria, BC
McCann, Helen R, LA.....Edmonds
McCann, Joseph J, LD, BA.....Edmonds
McCann. Mable, FA.....Wilma
McCanne, Gertrude Elizabeth, FA...Seattle
McCannel, Kenneth C, Engr...Victoria, BC
McCart, Ethel M, LA.....Pt Angeles
McCarthey, Grace A, LA.....Seattle
McCarthy, Corrinne Elizabeth, LA....Kelso
McCarty, Edmund J, Law.....Kelso
McCarthy, Joseph P, LA.....Seattle
McCarthy, Margaret, LA.....Seattle
McCartney, Francine Lee, LA.....Seattle
McCartney, Laurence D, Engr..Cedar Falls
McCarty, Ruth E, LA.....Seattle
McCaughey, Douglas, Bus.....Seattle
McCauley, Goerge W. LD, BA.....Seattle
McCausland, Erwin R, Engr...Pt Townsend
MacClain, Albert Lewis, Grad.....Seattle
McClain, Dorothy, FA.....Seattle
McClarren, Arthur E, Engr.....Seattle
McClarren, Ralph H, Engr.....Seattle
McClarty, Bert J, Bus.....Olympia
McClearey, Harold Creigh, LA.....Seattle
McCleary, Norma Jane, LA.....Seattle
McClintick, Warren Dean, Bus....Auburn
McClung, Olney, Sci.....Seattle
McColloch, William H, Jr, LD, BA..Seattle
McCollough, Grace Cecil, LA.....Seattle
McComas, Stanley, LD, For....Anacortes
McConahey, Mrs James M, Sci.....Seattle
McConkey, Roy Cicroe, Phar.....Shelton
McCormick, William Earl, Sci.....Seattle
McCormick, Grace, Sci.....Pinehurst
McCoubrey, Arthur M, Edu.....Seattle
McCown, Frank, Engr.....Waitsburg
McCoy, Newton C, Grad.....Seattle
McCrary, Ward Randolph, For..Merrill, Wis
McCrimmon, Norman, Bus.....Aberdeen
McCroskey, Jean, LA.....Colfax
McCue, Bertha E, LA.....Puyallup
McCulloch, Allen James, LD, Pharm..Orting
McCullom, Lloyd, Sci.....Everett
McCush, George W, Grad.....Bellingham
McCush, Lillian E. FA.....Bellingham
McDermott, Mildred, LD, LA.....Pateros
McDermott, Paul, LD, LA.....Pateros
MacDonald, Aristelle, FA.....Seattle
MacDonald, Barbara, FA.....Tieton
McDonald, Clare Kathryn, LA.....Seattle
McDonald, Donald Neal, FA.....Seattle
McDonald, Georgene, LA.....Seattle
MacDonald, Jessie Gordon, Bus....Seattle
McDonald, John H. LD, For.....Clipper
MacDonald, Mrs Katrine B, Grad..Seattle
MacDonald, Kenneth Melvin, For..Olympia
MacDonald, Louise. Grad.....Seattle
MacDonald, Margaret J, LA.....Tieton
McDonald, Marguerite E, LD, Sci....Seattle
McDonald, Ruth C, LA.....Pasco
MacDonald, M Ruth, LA.....Seattle
MacDonald, Willard, Bus.....Buckley
McDonell, Ruby C, UD, LA....Vancouver
MacDonnell, James, Bus.....Bellingham
McDonnell, Audrey, LA.....Seattle
McDonnell, Marion Ester, LA.....Seattle
McDonough, Beaudette, Bus.....Seattle
McDonough, Raphael, LA.....Seattle
MacDougall, Clarence, Bus.....Seattle
McDowell, Sadie B, Grad.....Seattle
McEacheran, Mary Elizabeth, FA..Seattle
McEachern, Marian, LD, LA.....Seattle
McElhaney, Marie Lucille, FA....Seattle
McElreath, Viola, LD, FA.....Seattle
McElroy, Richard H, Engr.....Seattle
McElvain, Ernest Emerson, FA....Spokane
McElwain, Mabel E, FA.....Seattle
McEntyre, Alice, LA.....Seattle
McEntyre, George J, Engr.....Seattle
MacEwan, John D, LA.....Seattle
McFadden, David J, Jour.....Bremerton
MacFadden, E Wayne, Sci.....Seattle
McFaddin, Helen, LA.....Spokane
McFaddin, Mary, UD, LA.....Spokane
McFarland, Charles W, LD, For..Mt Vernon
McFarlane, Betty, LA.....Seattle
Macfarlane, Lorna, LA.....Caldwell, Ida
McFarlane, Peter, Bus.....Renton
Macfarlane, Walter K, Law.....Seattle
MacFarlane, Zora, LD, Sci.....Seattle
McFee, Louisa, LA.....Seattle
McGary, Frank Bus.....Seattle
McGee, Albert S. Soph, Engr.....Seattle
McGibbon, Donald. LD, BA.....Seattle
McGibbon, John Paul, LA.....Seattle
McGill, Alice. LD, Sci.....Seattle
McGill, Edwin Joseph, Bus.....Seattle
McGill, Eleanor, LA.....Seattle
McGill, Merrie P, Grad.....Seattle
McGill, Ruth, LA.....Seattle
McGinnis, Mary A, FA.....Seattle
McGirr. Marian J, LA.....Seattle
McGoldrick, Jack H, Bus....Vancouver, BC
McGrady, Patrick, Sci.....Seattle
McGrath, Carolyn, Bus.....Spokane
McGrath, Doris K, UD, Educ...Walla Walla
McGrath, Gertrude M, LA....Sitka, Alaska
McGrath, J Winton. LD, BA.....Ephrata
McGraw, Ena Kathryn, Phar.....Tacoma
MacGregor, Ellen, LA.....Kent
McGuinness, Charles D, Bus....Snohomish
McGuire, Grace Amy, FA.....Seattle
McGuire, Louis H, Min.....Seattle
McGuire, Wilbur L, LA.....Olympia
MacHarrie, Lindsay, LA.....Seattle
MacHarrie, Stuart, Uncl, LA.....Seattle
McIlravy, Lowell C, Bus.....Seattle
McIlvain, Dorothy Salome, FA.....Seattle
McIlraith, Mervyn C, Fr, Engr.....Seattle
McIntire, Mabel Foster, LA..Helena, Mont
McIntosh, Edith A, Edu.....Anoka, Minn
McIntosh, Kenneth C, Bus.....Everett
MacIntyre, A J, LA.....Pt Alberni, BC
McKay, Elizabeth, LA.....Seattle
McKay, Helen, Sci.....Seattle
McKay, Herndon, Bus.....Spokane
McKay, Lawrence R, Grad..Mt Vernon, Ia
McKay, Sarabel Grace, LA.....Spokane
McKeague, Florence W, UD, LA....Seattle
MacKechnie, Russell H, Bus...Pt Angeles
McKee, Clarence T, LA.....Seattle
McKee, George M, Grad.....Seattle

McKeen, Mabel H, Bus....Vancouver, BC
McKelvey, Muir, Bus.....Seattle
Mackenzie, Donald Hector, Bus....Seattle
McKenzie, Ed G, UD, Educ.Vancouver, BC
McKenzie, Frank W, Engr.....Seattle
Mackenzie, Harold A, Engr.....Hoquiam
MacKenzie, Helen, LA.....Colfax
McKenzie, Kenneth D, Bus.....Seattle
McKenzie, Margaret, LA.....Tacoma
McKibben, Earl David, Bus.....Sunnyside
McKibben, Irene M, Grad.....Seattle
McKinney, W E, FA..Chestnut Mound, Tenn
MacKinnon, Anabel Marian, FA....Spokane
McKinnon, Donald, LD, BA.....Seattle
McKinnon, Mrs Kay S, LD, LA....Seattle
MacKintosh, Dale C, LA.....Seattle
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McKnight, Merrill O, LD, LA....Olympia
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McLeod, Neil K, LA.....Seattle
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McManus, Mildred E, FA...Vancouver, BC
McMaster, Frances, Sci.....Vancouver
McMeekin, Florence, LA.....Seattle
McMillian, Isabel G, Sci..Vancouver, BC
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McMinn, Bryan Towne, Grad.....Seattle
McMonagle, Alberta D, LA.....Seattle
McMorran, Jean P, Grad.....Seattle
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McNamara, Harold W, LD, LA....Olympia
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McNary, Catherine, LA....Pendleton, Or
MacNaught, Donald, Sci.....Seattle
MacNaughton, E Leslie, Sci..Victoria, BC
McNaughton, J W, LD, LA..Juneau, Alas
McNeil, Kathleen, LD, LA.....Seattle
McNeill, Harold E, Engr.....Tacoma
McPhee, Alex S, FA.....Auburn
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McQuesten, Roseanna, LA.....Tacoma
McRae, Edwin T, Edu.....Seattle
McRae, Ruth, LA.....Seattle
McRoberts, Dona I, Uncl, Sci....Spokane
McVay, Doris Ellen, LA.....Seattle
McVay, Irvin I, Bus.....Sultan
McVay, John Neely, LA.....Seattle
McVay, John P, Sci.....Seattle
Mack, Adelbert E, Bus.....Seattle
Mackay, Vernon E, Phar...Marshfield, Or
Madison, Hazel E, Bus.....Aberdeen
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Mage, Jack D, Engr.....Seattle
Magee, J Homer, LA.....Seattle
Magel, Conrad Jr, LD, BA.....Centralia
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Magner, John E, Bus....Richmond, Beach
Magnuson, Carl W, Phar.....Seattle
Magsumbol, Norberto, Sci.....Philippines
Maher, Marian, LA.....Sequim
Mahnken, Carl, LD, BA.....Seattle
Mahone, Lena Louise, LA.....Seattle
Mahoney, Katherine, LA.....Seattle
Mahoney, Kathleen, LA.....Seattle
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Main, Frank W, LA.....Seattle
Makino, Megumu, Bus.....Japan
Malakoff, Rena S, LD, LA.....Seattle
Malinao, Delfin, LA.....Seattle
Mallery, Joseph A, Law.....Seattle
Mallery, Mildred M, Edu.....Seattle
Mallett, Catharine, FA.....Seattle
Mallett, John, Engr.....Yakima
Mallon, Marvel Lucile, FA.....Seattle
Malone, A P, LD, BA.....Astoria
Malone, Coe V, Bus.....Monroe
Malone, Walter W, Law.....Tacoma
Maloney, Percy O, Phar.....Bothell
Maloney, Peter J, LD, LA.....North Bend
Maltby, Addie E, Edu.....Cut Bank, Mont
Maltby, Doris, LA.....Seattle
Maltby, Kathleen, Bus.....Seattle
Manca, Milo J, LA.....Seattle
Manchester, Marion, Uncl, BA.....Spokane
Manfred, Nicholas, Engr.....Irvin
Mangrum, Richard, LA.....Seattle
Manion, Joseph B, LD, BA.....Seattle
Manley, Catherine B, LA.....Seattle
Manley, Marion, LA.....Tacoma
Manlucu, Alfonso, Engr.....Philippines
Mann, Charles Costello, LA.....Seattle
Mann, Harold Nelson, LA...Concordia, Kan
Manning, Clare, FA.....Seattle
Manning, Edward, Bus.....Everett
Manning, Harold C, Engr.....Seattle
Manning, Jane, LA.....Helena, Mont
Mansfield, Allan H, LA.....Everett
Mansfield, C, Bus....Santa Barbara, Cal
Manson, Thelma, LD, LA.....Seattle
Mansur, Howard H, Jr, Engr....Ellensburg
Manthey, Isabel W, Sci.....Seattle
Mar, Reginald, LA.....Seattle
March, Martha Jane, LA.....Aberdeen
Marchand, Ernest, LA.....Seattle
Marchand, Morgan C, Sci.....Seattle
Marcus, Fred E, LD, LA.....Seattle
Marcus, Samuel W, Sci.....Seattle
Mares, Lillian Emily, Sci....Helena, Mont
Marion, Armand M, LD, LA.....Seattle
Marion, Lucien F, LA.....Seattle
Markewitz, Ernest, LA.....Portland, Ore
Markey, Evelyn Ruth, Sci.....Seattle
Markey, William C, Engr.....Seattle
Markham, Blanche E, Grad.....Seattle
Markus, Felix, Bus.....Seattle
Marlaat, John J, LA.....Spokane
Marriott, Ethel, Sci.....Bremerton
Marriott, Frances Anne, LA....Bremerton
Marriott, George, UD, BA.....Seattle
Mars, Annice, Bus.....Snohomish
Marsh, Doris Virginia, LA.....Arlington
Marsh, Harold Burton, LA.....Seattle
Marsh, Leon Deane, LA.....Seattle
Marsh, Lillian A, Sci.....Arlington
Marsh, Paul F, Uncl, LA.....Seattle
Marsh, Ruth I, Uncl, Sci.....Seattle
Marsh, Shirley R, LA.....Kelso
Marshall, Benjamin M, Sci.....Eureka, Cal
Marshall, Burt, Bus.....Seattle
Marshall, Charles C, Jr, Soph, Engr.Seattle
Marshall, Harry, Bus.....Tacoma
Marshall, Harry L, Engr.....Seattle
Marshall, Roy S, Bus.....Seattle
Marston, C May, Grad.....Seattle
Martin, Albert W Jr, Jr, Engr.....Seattle
Martin, Bertha, LD, BA.....Seattle
Martin, Ernest S, LA.....Seattle
Martin, George M, Engr.....Mabton
Martin, Glenn Chudley, LA.....Spokane
Martin, John R, LA.....Seattle

Martin, Merritt K, Phar.....Seattle
Martin, Patrick H, For.....Pt Angeles
Martin, Paul M, Engr.....Puyallup
Martin, Phil H, LA....Santa Barbara, Cal
Martin, Roy, Bus.....Seattle
Martin, W Stanton, Engr.....Seattle
Martin, Stella, LA.....Seattle
Martin, Trula E, LD, FA.....Seattle
Martin, Wilmet, FA.....Aberdeen
Martina, John D, LD, BA.....Seattle
Martincevic, Patricia, LA.....Seattle
Maryott, Howard B, LD, LA.....Seattle
Maschke, Dorothy D, LA.....Republic
Maslan, Benjamin A, Law....Houston, Tex
Mason, Lelia L, LA.....Spokane
Mason, Robert Harold, Bus.....Seattle
Massar, Anna, Bus.....Mt Vernon
Massar, Marjorie, Bus.....Mt Vernon
Masuda, Thomas, Law.....Ellensburg
Matheson, Margaret J, LA.....Seattle
Mathews, Elizabeth J, UD, Sci.....Seattle
Mathewson, Edward, For.....Seattle
Mathewson, Mark, LA.....Shelton
Mathis, Clinton, Engr.....Seattle
Mathis, Hortense, LA.....Seattle
Mathis, Jess G, LD, BA.....Granger
Matlock, Orin, Bus.....Spokane
Matsen, Ida M, LA.....Seattle
Matsen, Roy, Sci.....Seattle
Matsen, Elmer E, LD, For..Lake Stevens
Matsumoto, Takashi, FA.....Seattle
Matthews, Corwin D, LA.....Spokane
Matthews, Gwladys LA.....Seattle
Matthews, James B, LD, BA.....Seattle
Mattila, Walter Oscar, LA.....Woodland
Mattson, John I, FA.....Hoquiam
Mattson, Margaret, LA.....Seattle
Mattson, Ray LD, LA.....Portage
Matzner, Martha, LA.....Brazil, SA
Maughan, W Maxey, Bus.....Seattle
Mauk, J Homer, Bus.....Stevenson
Maulsby, Dent .For.....Everett
Mauren, Signe, UD, Educ.....Seattle
Maxey, John D, Sci.....Dupont
Maxfield, Charles, LA.....Seattle
Maxwell, William C, LA...Burlingame, Cal
May, Herbert Randle, Bus.....Aberdeen
May, Louis B, LD, For.....Seattle
Maldahl, Bergete, Sci.....Spokane
Mayer, Alexander, Bus.....Seattle
Mayer, Herbert Edward, Engr.....Seattle
Mayer, Mrs Lillian S, Grad.....Seattle
Maylor, Marc L, Bus.....Seattle
Mayrand, Anita, LA.....Seattle
Mazna, Florence Genevieve, Bus...Spokane
Mead, Lawrence, UD, BA.....Wenatchee
Meagher, Vivian A, LD, BA.....Seattle
Meaker, Marian Esther, Grad.....Seattle
Meckstroth, Carl W, Bus.....Seattle
Medby, M Roy, LD, LA.....Spokane
Medler, Dan M, LD, LA.....Seattle
Madler, Louisa A, LA.....Seattle
Meekhof, Mynerd, LA.....Everett
Meeks, Anastasia, LA.....Seattle
Mehl, Constance, Bus.....Seattle
Mehner, Esther, LA.....Bremerton
Mehner, Gertrude, Sci.....Bremerton
Mehner, Karl Trevor, LA.....Charleston
Meinch, Fern M, Sci....Ketchikan, Alaska
Meisnest, Kenneth R, UD, BA.....Seattle
Nelang, Bjorn Louis, Engr.....Seattle
Melby, Mildred, LA.....Seattle
Melder, Engene F, Bus.....Seattle
Melse, Frances Edith, LA.....Seattle
Melsom, Leif Smith, Fsh.....Seattle
Melson, Ray C, Bus.....Bowden, Alberta
Mendenhall, James R, Bus.....Seattle
Menke, Henry, LA.....Seattle
Mennell, Mrs Estella P, UD, Sci....Seattle
Mentzer, Cyrus Joseph, Law.....Tacoma
Mercy, Frederick, Bus.....Yakima
Merigold, Florence E, FA...Kalispell, Mont
Mero, Ralph M, Engr.....Seattle
Merrifield, Lee, LA.....Kent
Merrill, Elliott, Engr.....Seattle
Merrill, Grant Warren, Grad.....Seattle
Merrill, John E, Bus.....Seattle
Merritt, Dorothy E, LD, LA.....Seattle
Meserve, Kenneth A, UD, Ba.....Seattle
Mesford, Adolph B, Bus.....Anacortes
Mesher, Mose, LA.....Seattle
Messer, Elizabeth B, UD, Sci.....Seattle
Metcalf, Bernice, LA.....Yakima
Metcalf, Edith E, LA.....Mt Vernon
Metcalf, Kathryn M, LA.....Yakima
Metcalf, Kenneth A, Bus.....Tacoma
Metcalfe, Gordon E, LA.....Seattle
Mettel, Evelyn, Sci.....Seattle
Metz, Reas, LD, LA.....Hatton
Meuler, John Erdman, For.....Vancouver
Meyer, Edward A, Bus.....Edmonds
Meyer, Flora, Grad.....Seattle
Meyer, Ivan W, FA.....Walla Walla
Meyer, Mrs Maude J, LD, LA.....Seattle
Meyer, Paul Eugene, Fr, Engr...Quincy, Ill
Meyer, Wilhelm Hugo, LA.....Seattle
Meyers, Fred W, Bus.....Seattle
Meyers, Harry T, FA.....Spokane
Meyers, Liv Alice, LA.....Seattle
Michael, Clifford, Sci.....Tacoma
Michael, Gladys, Edu.....Tacoma
Michaelsen, Helen M, LD, Sci....Odessa
Michaelsen, Olga, FA.....Odessa
Michie, Ethel, LA.....Seattle
Michelson, Paul W, Bus.....Camas
Mickelwait, Lowell P, Bus.....Spokane
Middleton, Maurice, LA.....Seattle
Mielke, Clara, LA.....Seattle
Mielke, Helen Evelyn, FA.....Spokane
Mielke, Marie, Bus.....Spokane
Mifflin, James, Phar.....Olympia
Migliavacca, Mabel, FA.....Bremerton
Miles, Edward M, LA.....Seattle
Miles, J George, LD, LA.....Seattle
Miles, James E, LD, For.....Seattle
Miles, William, LA.....Seattle
Miley, John Donnell, Engr.....Bremerton
Miley, Louise, LA.....Everett
Milham, Merle Genevieve, Sci....Snohomish
Millar, Melville M, Phar.....Seattle
Miller, Abe, Engr.....Seattle
Miller, Adelaide L, FA.....Seattle
Miller, Alice Frances, LA.....Tacoma
Miller, Amalia F, LA...Fairbanks, Alaska
Miller, Beatrice K, LA.....Yakima
Miller, Bernice L, LD, Sci.....Seattle
Miller, Caleb W, Engr.....Union
Miller, Charlotte E, Grad..... Seattle
Miller, Clarice D, Sci.....Tacoma
Miller, Clemens M, Bus.....Seattle
Miller, Edna Cecelia, Bus.....Bryn Mawr
Miller, Edwin T, Engr.....Buckley
Miller, Eloise, LD, LA.....Seattle
Miller, Mrs Elsie M, Grad.....Seattle
Miller, Ernest, LA.....Seattle
Miller, S Ernest, LD, LA.....Cle Elum
Miller, Ethel M, Grad.....Winslow
Miller, Evelyn C, LA.....Seattle
Miller, Everett L, LA.....Tacoma
Miller, Florence A, LA.....Omak
Miller, Franklin, Bus.....Seattle
Miller, George L, LD, BA.....Seattle
Miller, Harry Henry, LA.....Naches
Miller, Hugh K, LA.....Seattle
Miller, Ira T, LA.....Seattle
Miller, James K, LD, Sci.....Grandview
Miller, John E, LA.....Seattle
Miller, J Lyle, Bus.....Seattle

Miller, Lecil C, Sci.....Seattle
Miller, Maud E, Grad.....Medford, Or
Miller, Mervyn B, LA.....Seattle
Miller, Posey, Sci.....Alderwood Manor
Miller, Robert E, Sr, Engr.....Puyallup
Miller, Robert D, Bus.....Tacoma
Miller, Vivian, Sci.....Vancouver
Millett, Floyd A, Fr, Engr.....Seattle
Millett, Lowell H, Bus.....Seattle
Milliman, Leonard Gilbert, LA....Seattle
Milliman, Wendell, Sci.....Seattle
Million, Carroll, Bus.....Seattle
Mills, Mrs Adele Hoppock, Grad....Seattle
Mills, Archibald R, LA.....Curtis
Mills, George, Bus.....Olympia
Mills, Mrs Gertrude R, LA.....Seattle
Mills, Mabel S, LD, LA.....Seattle
Mills, Merritt G, LA.....Olympia
Mills, Orville Herman, LA.....Seattle
Mills, Paul A, LD, Sci.....Seattle
Mills, Victor, Engr.....Seattle
Milner, Walker, LA.....Seattle
Milot, John A, 3rd Yr, Law.....Seattle
Milward, Dorris Lillian, LA.....Aloha
Minahan, Harry, LA.....Mt Vernon
Minaker, Cecil W, Bus.....Seattle
Miner, Eva Lee, Sci.....Seattle
Miner, John A, Bus.....Seattle
Minor, John V, LD, For.....Kelso
Mint, Frances Cardwell, Grad.....Seattle
Minter, Donald Ashby, Bus.....Tacoma
Minter, Laurabelle, LA.....Tacoma
Minuth, Esther A, LD, LA.....Yacolt
Minuth, Gertrude E, LD, LA.....Yacolt
Misener, Louis A, Engr.....Tacoma
Misra, Ben, Jour.....India
Mitchell, Caroline, LD, FA.....Seattle
Mitchell, Catherine, FA.....Seattle
Mitchell, Doris, Sci.....Snohomish
Mitchell, Dorothy, Sci.....Seattle
Mitchell, John G, LA.....Eureka, Cal
Mitchell, Mary, LA.....Seattle
Mitchell, Mary S, UD, LA.....Wheeler
Mitchell, S Carson, Bus.....Eureka, Cal
Mitchell, Walter L, Soph, Engr.....Seattle
Mitton, Leslie, Engr.....Pt Townsend
Miyamoto, Sanji, LA.....Hawaii
Miyashita, Yasuo, Grad.....Japan
Moberg, Alfred Frank, FA.....Asotin
Moe, Barney, FA.....Seattle
Moffitt, D Dwight, Sci.....Elberton
Moffitt, Lucille, Sci.....Naselle
Moffitt, Thomas E, Grad.....Seattle
Mohler, Harry A, LD, For.....Seattle
Mohr, Jennie, LA.....Seattle
Mollanen, Doiver Joel, FA.....Colby
Mollanen, Mathias W, Fresh, Engr...Seattle
Mojonnier, Claire, FA.....Walla Walla
Mojonnier, Harold, Bus.....Walla Walla
Mollestad, Marie, LA.....Seattle
Moncrief, Lester, For....Indianapolis, Ind
Monroe, George H, Grad.....Ferndale
Monroe, Paul A, Phar.....Seattle
Monson, Winfred W, Uncl, FA....Dungeness
Monsos, Norman, Bus.....Seattle
Montag, Adeline Catherine, Bus....Seattle
Montfort, Mary L, LA.....Blaine
Montfort, Richard, Bus.....Blaine
Montilla, Francisco, Bus.....Philippines
Montilla, Jose R, Fsh.....Philippines
Monty, George R, Bus.....Tacoma
Moore, Birdie Marie, LA.....Tacoma
Moore, Bryant W, LA.....Seattle
Moore, Burta Louise, Sci.....Kirkland
Moore, Charles, Engr.....Seattle
Moore, Dorothy G, FA.....Seattle
Moore, Edward J G, For....Victoria, BC
Moore, Eloise, LA.....Seattle
Moore, Eloise W, Sci.....Chewelah
Moore, Helen E, LA.....Chehalis
Moore, John Leslie, Bus.....Xenia, Ohio
Moore, Katherine, LA.....Seattle
Moore, Leon F, Engr.....Seattle
Moore, Marguerite E, UD, LA.....Seattle
Moore, Mrs Nettie, Uncl, Sci.....Seattle
Moore, Otto Engene, Edu.....Snoqualmie
Moore, Phyllis Elizabeth, LA.....Spokane
Moore, Russell B, Bus.....Pullman
Moore, Vivien M, FA.....Washougal
Moran, Charlotte, Edu.....Seattle
Moran, Christina L, LA.....Seattle
Moran, Dorothy, LA.....Seattle
Moran, Leo J, Bus.....Seattle
Morcom, Herbert T, Bus.....Seattle
More, David T, Engr.....Tacoma
Moore, Katherine F, Sci.....Seattle
Moran, Wendell, LD, For.....Seattle
Morehodoff, John A, Engr.....Russia
Morehouse, Helen G, FA.....Spokane
Morford, Harold, Law.....Seattle
Morford, H James, LD, BA.....Seattle
Morgan, Adrian H, Engr.....Bellingham
Morgan, Alvin Q, For.....Seattle
Morgan, Beulah Inez, Grad....Engene, Ore
Morgan, Dorothy Lucille, FA.....Seattle
Morgan, Ethel, FA.....Snohomish
Morgan, Fred Thomas, Engr.....Elma
Morgan, Helen Ethel, LA.....Hoquiam
Morgan, Jewell A, LA.....Seattle
Morgan, Mary A, Grad.....Portage
Morgan, Regina Mae, FA.....Tukwila
Morgan, Ruth Eleanor, Sci.....Seattle
Morgan, Walter Maurice, Sci....Davenport
Morikawa, Kisaku, Fsh.....Seattle
Morningstar, Everett, LA.....Bellingham
Morrell, Beatrice Emily, LA.....Seattle
Morrill, Lucille, LA.....Kent
Morris, Alvin, Bus.....Seattle
Morris, Clydene, LA.....Seattle
Morris, Frances Mary, LA.....Everett
Morris, Gregory Scott, Bus.....Seattle
Morris, Katherine, Sci.....Seattle
Morris, Mildred T, LA.....North Bend
Morris, Paul, Bus.....Everett
Morris, Robert A, Bus....Juneau, Alaska
Morrison, Alene, FA.....Seattle
Morrison, Anna Kathryn, LA.....Seattle
Morrison, Charles Milton, Bus.....Seattle
Morrison, Clayton W, LA.....Seattle
Morrison, Darrell Lee, Sci.....Auburn
Morrison, Edwin R, FA.....Seattle
Morrison, John W, LA.....Seattle
Morrison, Robert Downey, Phar....Seattle
Morrison, Wendell W, Bus.....Buena
Morry, Lucile K, LA.....Seattle
Morse, Clarence Dayton, LA.....Seattle
Morse, Jean Rice, Grad.....Seattle
Morse, Roy W, Engr.....Seattle
Mosby, Clifford, LA.....Everett
Moseley, Evalyn A, Phar.....Seattle
Moseley, Robert D, Bus.....Seattle
Moser, Stephen B, Bus.....Seattle
Moses, Clemewell, FA.....Seattle
Mosher, Gertrude, Bus.....Seattle
Mottelson, Mayer, LA.....Seattle
Moulthrop, George Raymond, LA....Seattle
Moulton, Edith Alicia, Sci.....Kirkland
Moulton, Helen R, LA.....Seattle
Moulton, Morris E, Bus.....Seattle
Moultrop, Lena V, Edu.....Walla Walla
Mowat, Helen Frances, LA.....Seattle
Mowat, Lillian A, Phar.....Edmonds
Mowry, Rachel, LA.....Seattle
Moy, Hing Choh, Sci.....China
Moynahan, Virgina C, LA...San Diego, Cal
Muckleston, Lois Way, Grad.....Seattle
Mueller, Edward C, Engr.....Seattle
Mueller, Frank A, Engr.....Seattle

Mueller, John A, Engr.....Tacoma
Muench, Emma Lou, LA.....Olympia
Muffley, Robert Alan, LA.....Seattle
Muhommed, Woli, LA.....India
Mulhern, Helen, Sci.....Seattle
Mulholland, Edward A, LA.....Seattle
Mullan, James R, LA.....Seattle
Mullane, Stanley, LD, LA.....Seattle
Mulledy, Marie, FA.....Kooskia, Ida
Mullin, Alma, Bus.....Everett
Mullin, Jack D, LA.....Bellingham
Mumford, Beatrice, LD, Sci.....Vancouver
Mumford, Clarence B, Sci.....Seattle
Mund, Vernon A, Bus..... Pe Ell
Munn, Jane B, Bus.....Spokane
Muntzer, Maude V, Edu.....Seattle
Murata, Kaichi Kay, LA.....Seattle
Murchison, Louise Celia, LA.....Aberdeen
Murdock, Wells, Phar.....Duchesne, Utah
Murphine, Tom, LA.....Seattle
Murphy, Agnes Kathryn, Edu.....Seattle
Murphy, Edna, LA.....Auburn
Murphy, Gordon Clifford, Bus.....Everett
Murphy, Mabel Ann, FA.....Auburn
Murphy, Margaret Mary, Edu.....Spokane
Murphy, Mary E, Sci....Manila, Philippines
Murphy, Ruth E, Sci....Coeur d'Alene, Ida
Murphy, Virgil A, LD, LA..Black Diamond
Murphy, Wilfrid R, Soph, Engr....Seattle
Murray, Clarence M, Engr.....Seattle
Murray, Clifford M, Engr.....Methow
Murray, Hazel S, Edu.....Seattle
Murray, Margaret Elizabeth, LA....Seattle
Murray Nellie, Bus.....Seattle
Murray, Virginia Irene, LD, Sci....Seattle
Murray, Virginia Marion, FA.....Spokane
Murray, Vivien, Gwendolyn, FA....Spokane
Murton, M Ethelwynne, LA..Portland, Or
Musgrave, Dorothy, LA.....Seattle
Muth, Lawrence R, Engr.....Seattle
Myers, Carlyle G, Sci.....Seattle
Myers, Dorothy Clara, LA.....Seattle
Myers, Elmer W, Soph, Engr ....Seattle
Myers, Emma Annie, Sci.....Pt Blakeley
Myers, Harry L, Bus.....Seattle
Myers, Jean, FA.....Seattle
Myers, Percy L, Bus.....Seattle
Myers, Phil W, Phar.....Seattle
Myers, Thomas F, LA.....Outlook
Myhre, Clara M, FA.....Seattle
Mylrole, William Joseph, LA.....Seattle

Nachant, Virginia, LA.....Seattle
Nadeau, Mrs Eleanore, LD, FA.....Seattle
Nadeau, Flora L, Grad.....Nadeau, Mich
Nagamatus, G R, Engr...Snoqualmie Falls
Nagamine, Frank N, FA.....Seattle
Nagley, Hazel V, Uncl, Sci.....Seattle
Nagley, Lois, LD, LA.....Seattle
Nakashima, George, For.....Seattle
Nakamura, Tetsuji, Sci.....Seattle
Nanney, Albert M, LA.....Vancouver
Nantz, Kathryn Agnes, LA.....Seattle
Narabal, Tiburcio B, LA.....Philippines
Nardin, Alphonse C, LA.....Seattle
Nasonoff, Alexander, Fresh, Engr....Seattle
Nash, John K, Phar.....Friday Harbor
Nash, John W, LA.....Seattle
Natoli, Ben, Engr.....Seattle
Nau, Thomas P, LD, BA.....Seattle
Naughton, Engene Patrick, Bus..Bellingham
Navea, Vincente O, Sci.....Philippines
Nazareth, Victor Castillo, LA....Philippines
Neal, Richard K, LA.....Seattle
Nealond, Minor Isabelle, FA..Portland, Or
Near, Maxine, Sci.....Seattle
Nedelsky, Leo, Uncl, Engr.....Russia
Neely, Charles Bertis, LA.....Spokane
Neely, James H, Grad.....Fullerton, Cal
Neerland, Ruth C, LA.....Seattle
Neick, Andreas H, Bus.....Hoquiam
Neidert, Louis John, Grad.....Seattle
Neighbor, Justin Wallace, Sci....Kirkland
Neikirk, Claire E, LD, LA.....Seattle
Neil, Warren R, For.....Oak Harbor
Neill, William James, LA.....Seattle
Neilsen, Hazel E, UD, LA.....Kirkland
Nejely, Bertha Volnagel, LA.....Seattle
Nelson, Adelaide K, LA.....Seattle
Nelson, Earl J, Bus.....Seattle
Nelson, Edward Loyd, Bus.....Seattle
Nelson, Elna Vendla, LA.....Seattle
Nelson, Erma Emmaline, LA.....Seattle
Nelson, Ernest W, Bus.....Bickleton
Nelson, Ethel, LA.....Seattle
Nelson, Engene R, LA.....Tacoma
Nelson, Evelyn Ida, LA.....Seattle
Nelson, Everett J, Grad.....Castle Rock
Nelson, Frances M, LA.....Seattle
Nelson, Frances M, LA.....Seattle
Nelson, Helen Clare, Bus.....Seattle
Nelson, Hilmer B, Soph, Mines..Sedro-Woolley
Nelson, Leslie T, LD, BA.....Spokane
Nelson, Louise, LD, BA.....Seattle
Nelson, Lutillus L S, UD, BA.....Seattle
Nelson, Mabel A, LA.....Seattle
Nelson, Malcolm, Bus.....Seattle
Nelson, Oscar E, Sci.....East Stanwood
Nelson, Paul H, Soph, Engr.....Wenatchee
Nelson, Ralph B, Engr.....Winslow
Nelson, Robert B, For.....Seattle
Neoustroff, Nicholas, Uncl, Eng.....Seattle
Nessly, Dorothy E, LA.....Seattle
Nestor, Bernard D, FA.....Seattle
Neudecker, Delbert, Bus.....Everett
Nevelle, Jack Adrian, Soph, Engr....Seattle
Neville, Betty, LA.....Walville
Neville, Laura M, LA.....Seattle
Newberry, Mrs Amelia E, LA....Kirkland
Newberry, Earl P, FA.....Portland, Or
Newbern, Fern, Uncl, FA.....Seattle
Newbury, James V, Bus.....Seattle
Newbury, Kirsten, Grad.....Seattle
Newell, Laura E, Grad.....Everett
Newell, Richard L, Engr.....Everett
Newman, Leo L, Law.....Seattle
Newman, Marguerite, LA.....Boise, Ida
Newman, Olive A, LD, LA.....Boise, Ida
Newman, Ruth L, Sci.....Spokane
Newton, Charles A, For.....Auburn
Nicholas, Lester D, Uncl, LA.Stanton, Neb
Nichols, Amelie, LA.....Seattle
Nichols, Claudia, LA.....Seattle
Nichols, Jane, LA.....Seattle
Nichols, John D, LA.....Wapato
Nichols, Mary, LA.....Seattle
Nichols, Walter Robert, Grad.....Winslow
Nicholson, Catherine, FA.....Spokane
Nicholson, Leo Stanley, Law.....Yakima
Nicholson, Thomas E, Min.....Seattle
Nicholson, Walter, Bus.....Seattle
Nicolls, Carlyle, Engr.....Seattle
Nielsen Louise I, LD, LA.....Aberdeen
Nielsen, Stuart, FA.....Seattle
Niemann, Frederick Warner, Bus..Seattle
Niemela, Frank A, LA.....Centerville
Niemeyer, Harold E, Bus.....Seattle
Niemeyer, John, Engr.....Seattle
Niesen, Helene J, LA.....Tacoma
Niesz, Ralph M, Engr.....Seattle
Nightingale, Harold Watson, Fsh...Seattle
Nims, Fred D, LA.....Seattle
Nims, Helen B, Sci.....Seattle
Nishimoto, James Y, Bus.....Seattle
Nishinoiri, John I, LA.....Seattle
Nishio, Frank, LA.....Seattle
Nix, Martha J, Grad.....Dresden, Tenn
Noble, Alvord De Witt, Engr.....Seattle
Noble, Mildred, Sci.....Seattle

Noblitt Dewey I, Edu.....Curtis
Noftsinger, Edith Jeanne, LA..Mt, Vernon
Nohr, Marjorie, LA.....Spokane
Noji, Oliver K, FA.....Seattle
Nolan, Michael John, Engr.....Seattle
Nolte, Elizabeth, LA.....Seattle
Norberg, Clarence F, Engr.....Seattle
Nordahl, John G, Engr.....Seattle
Nordquist, Carlos Gustave, Law....Seattle
Nordquist, Elsie E, LA.....Seattle
Nordstrom, Elmer, Bus.....Seattle
Noren, Gladys, LD, FA.....Ilwaco
Norie, James Lester, LA.....Seattle
Norie, Mrs J L, UD, Sci.....Seattle
Norie, Martha Gertrude, LA.....Seattle
Norie, Mary Elizabeth, LA.....Seattle
Norling, Dorothy Anne, FA..... .Seattle
Norquist, Robert W, LD, BA.....Seattle
Norris, Carl L, LA.....Seattle
Norton, June, LA.....Tacoma
Norton, William N, Engr.....Seattle
Norway, Charis J, FA.....Seattle
Notkin, James B, Engr.....Seattle
Novak, Henry J, LA.....Aberdeen
Novak, Sany, Uncl, Pharm.....Seattle
Nowell, Everett, Bus.....Seattle
Nozaki, Kiyoshi, LA.....Japan
Nuckolls, Virginia, LD, LA..Ketchikan, Alas
Nuckols, Hugh H, LA.....Seattle
Nudd, Barbara Elizabeth, LA.....Seattle
Nuguid, Alfonso P, Engr.....Philippines
Nunan, Dorothy, Bus....Ketchikan, Alaska
Nusbaum, Dean E, LA.....Seattle
Nutt, Elizabeth, LD, LA.....Seattle
Nygren, Alf John, Sci.....Snohomish
Nyman, Andrew Dewey, Engr.....Custer
Nyman, Rose, Uncl, FA.....Seattle

Oakland, Du Wayne Thos, Bus.....Seattle
Oberholser, Esther, Sci.....Seattle
O'Brien, John, Law.....Seattle
O'Brien, Nora Mary, LA.....Seattle
O'Brien, William Joseph, Bus.....Seattle
O'Bryne, Mrs Alice L, Sci.....Bothell
Ocampo, Jose, Eng.....Philippines
Ocampo, Pedro V, Bus.....Philippines
Ochs, Clyde, LD, BA.....Seattle
O'Connor, Helen Margaret, LA....Tacoma
Odani, Juichi, Bus.....Seattle
Odegard, Thomas, Jr Phar.....Seattle
O'Donnell, Annie M, LD, LA.....Seattle
Oeck, Emil Arthur, Bus.....Spokane
Oertel, Anna Mary, FA.....Seattle
Oestreich, Roy, Bus.....Ritzville
Ogawa, Elmer, Bus.....Seattle
Ogilvile, Edith, Edu.....Everett
Ogilvile, Varvara, Phar.....Seattle
Ogle, Floyd V, Phar.....Bellingham
Ohyi, Mrs Masa, Sci.....Seattle
Olen, Dorothea Catherine, LA.....Spokane
Okajima, Dorothea, Sci.....Seattle
Okajima, Thelma S, FA.....Seattle
O'Keane, Frances, FA.....Vancouver
O'Keane, Mary C, LA.....Vancouver
O'Keefe, Jessie, Sci.....Seattle
Okerlund, Gerda M, Grad.....Seattle
Okihara, Ryushin, Uncl.....Seattle
Okubo, Roco, Bus.....Seattle
Olberg, Leon N, Soph, Engr....Pt Townsend
O'Leary, Alice Maud, LA.....Seattle
O'Leary, Mary Eileen, LA.....Seattle
O'Leary, Helen Kathleen, LA.....Seattle
O'Leary, Kathleen, FA....Great Falls, Mt
O'Leary, Margaret, LA.....Seattle
Oleson, Mildred E, Lib.....Seattle
Olin, Chas Herbert, LA.....Seattle
Olin, William C, LD, BA.....Seattle
Oliver, Egbert S, Edu.....Aberdeen
Oliver, Esther Thompson, LA.....Seattle
Oliver, Marguerite Josephine, LA...Seattle
Oliver, O Jr, Bus.....Alberton
Oliver, Russell, Bus.....Tacoma
Olmstead, Joel Burlison, LA.....Seattle
Olney, Dorothy, LA.....Seattle
Olsen, Blanche A, Bus.....Seattle
Olsen, Claude Sylvan, Law.....Zillah
Olsen, Frederick C, Law.....Zillah
Olsen, Hanford Theodore, For....Coupeville
Olsen, Howard, LA.....Yakima
Olsen, Reidar H,.....Pt Blakely
Olson, Avary H, LD, Sci.....Stevenson
Olson, Clarence A, Bus.....Rolling Bay
Olson, Clifford C, LD, BA.....Yakima
Olson, Earl Stanley, Soph, Engr...Seattle
Olson, Ellen Linnea, LA.....Rolling Bay
Olson, Genevieve, LA.....Raymond
Olson, Herman G, LD, Sci.....Seattle
Olson, John G, LA.....Tacoma
Olson, Kermit, Engr.....Tacoma
Olson, Leonard Kenneth, Bus.....Hoquiam
Olson, Marie T, Grad.....Seattle
Olson, Martin, Bus.....La Center
Olson, Mildred Pearl, LA....Quinault, Ore
Olson, Olga Claudia, Grad.....Madras
Olson, Percy, Phar.....Everett
Olson, Ronald Le Roy, LA.....Seattle
Olson, Virginia Louise, FA.....Seattle
Olson, Warren Evans, Min.....Tacoma
Olswang, Edith, LA.....Seattle
Olwell, Murray M, UD, BA.....Seattle
O'Mahony, Mary Helen, LA.....Seattle
O'Neil, Muriel Reta, Grad.....Spokane
O'Neil, Wm T, Bus....Mountain Home, Ida
Opdycke, Edgar Fenton, Bus.....Seattle
Opperman, Albert, LD, BA.....Tacoma
Orkney, Douglas Leonard, Bus....Hoquiam
Orkney, James W, Bus.....Hoquiam
Orkney, R Woolston, LD, BA.....Hoquiam
Ormbock, Gilbert, Bus.....Woodinville
O'Rourke, James Francis, Bus.....Seattle
Orr, Gilbert M, For....So Brownsville Pa
Orr, Paul, Bus.....Tacoma
Orr, Phil C, Sci.....Dillon, Mont
Orr, Robert Stewart, Engr.....Spokane
Ortegal, Ralph, Engr.....Tacoma
Orth, Maurice, Wm, Law.....Seattle
Orton, Constance, LA.....Seattle
Orton, Helen C, LA.....Seattle
Osborn, Glenn, J, Edu.....Washougal
Osginach John A, Grad.....Lacey
Osgood, Ernest W, FA.....Seattle
O'Shea, Eleanor, LA.....Spokane
Osterman, Henrietta, FA.....Walla Walla
Osterman, Hugo, FA.....Walla Walla
Ostrom, Eleanor, FA.....Medina
Ostrom, Linus Bradford, Engr....Bermerton
Ostrom, Theodore Emanuel, Bus....Seattle
Oswald, David C, Uncl, BA.....Everett
Oswald, Mary Elizabeth, LA.....Everett
Ota, Miho C, FA.....Auburn
Otani, Kikuye, LA.....Wapato
Otis, Peggy, Sci.....Clinton
Ottenheimer, Albert M, LA.....Tacoma
Otto, Robert Henry, Bus.....Everett
Ouren, Frederick, Sci.....Leavenworth
Overguard, Julia Octavia, Grad..Salem Ore
Overton, Guy R, Bus.....Winchester, Ill
Owen, Frances, LA.....Seattle
Owens, George I, Engr.....Seattle
Owens, Marian V, FA.....Seattle
Owens, Marjorie E, Sci.....Wenatchee
Oyen, Esther, FA.....Everett
Oyen, Penelope, FA.....Everett

Padelford, Eunice, LA.....Seattle
Padelford, Morgan G, Grad.....Seattle
Page, Frederick J, Bus.....Seattle
Pahl, Marie, FA.....Seattle

Paine, Carol Margaret, Grad....Boise, Ida
Painter, Wilfred, Engr.....Dryad
Palacol, Augustine P, Grad....Philippines
Palacio, Apolonio, LD, Engr....Philippines
Palmaw, Ivan M, Uncl, FA.....Seattle
Palmer, Burton E, Min....Portland, Ore
Palmer, Delight, LA.....Chehalis
Palmer, Dorothy, FA.....Seattle
Palmer, Elizabeth, FA.....Seattle
Palmer, Franklin Sawyer, Grad....Seattle
Palmer, Lawrence, Engr.....Centralia
Palmer, Margaret, Sci.....Seattle
Palpallotoc, Ceferino V, LA....Philippines
Palpallotoc, Pablo P, Phar....Philippines
Pampel, George, LA.....Seattle
Pannell, Shirley, FA.....Seattle
Pantages, Rodney, Bus.....Seattle
Paquin, Rolfe J, Spec, BA..Twin Falls, Ida
Pape, Karl R, Engr.....Edmonds
Paradis, Culver, Engr.....Seattle
Paradis, E Joseph, Engr.....Seattle
Pardee, Loe H, LD, LA.....Seattle
Parent, Amand, Sr, Engr.....Tacoma
Park, Allyne, FA.....Seattle
Park, Howard, Engr.....Seattle
Park, Walter L, Engr.....Seattle
Parker, Agnes F. Edu.....Seattle
Parker, Chester H, Fr, Engr.....Kalama
Parker, David L, Bus.....Seattle
Parker, Dorothy Jean, LA.....Seattle
Parker, Geraldine, LA.....Granger, Wyo
Parker, John A, Grad.....Grandview
Parker, Ted M Jr, FA.....Seattle
Parks, Clarence T, Grad.....Pt Angeles
Parks, Dorris B, Edu.....Seattle
Parmeter, Eugene S, LA.....Spokane
Parr, Katherine E, LA.....Spokane
Parrington, Louise Wrathal, LA....Seattle
Parrish, Augustus R, LA.....Tacoma
Parsons, W B, LA.....Seattle
Partansky, Alexander M, LD, FA...Russia
Partee, Raymond A, LA.....Seattle
Pascual, Eduardo F, Edu.....Phillippines
Pascual, Felix F, Edu.....Phillippines
Pascual, Narciso P, Uncl, DA..Philippines
Pashley, Harry B, Engr.....Seattle
Paslay, Corinn, FA.....Aberdeen
Patch, Della J, UD, Educ.....Beach
Patjens, Irene L, LA....Grass Valley, Or
Paton, Harold, Bus.....Cashmere
Paton, Kenneth D, Fresh, Engr..Cashmere
Patric, John LA.....Snohomish
Patrick, Harry, Bus.....Seattle
Patrick, Ransom Rathbone, FA..Wenatchee
Patrie, Walter F, LA.....Seattle
Pattee, Ava, LA.....Spokane
Pattee, Norman, LA.....Spokane
Patten, Lawton Mike, FA.....Seattle
Patterson, Ira F, LD, BA.....Seattle
Patterson, Viola H, Grad.....Seattle
Pattison, Evelyn, Grad.....Olympia
Pattullo, Ruth J, FA.....Vancouver
Patzer, Sidney, LA.....Seattle
Paul, Beatrice Carolyn, FA.....Seattle
Paulhamus, Dwight R, Bus.....Summer
Paulissen, Frank, Bus.....Spokane
Paull, Lily Lela, LA.....Spokane
Paulson, Olive, Bus.....Seattle
Paulson, Stina, LA.....Edmonds
Paxton, Roberts, LA.....Seattle
Payette, Sedric, Engr.....Seattle
Payne, M Caroline, Edu.....Seattle
Payne, Harry Anson, Phar.....Seattle
Paynton, Charles S, LA.....Seattle
Paysse, Doris, LA.....Seattle
Paysse, Sylvan P, Bus.....Seattle
Peabody, Emery F, Bus.....Seattle
Peabody, Maud A, Sci.....Seattle
Peach, Ruth Adeline, Sci.....Pt Townsend
Peacock, Marion, LA.....Portland, Ore
Peairs, Dorothy, LD, LA.....Seattle
Peairs, Goldia L, LA.....Kelso
Peak, Mabel E, LA.....Seattle
Pearce, Helen Winifred, LA..Portland, Ore
Pearce, Marion, LA.....Seattle
Pearce, Martha Jane, Sci.....Seattle
Pearce, Richard James, FA.....Seattle
Pearl, Charles J, LA.....Prosser
Pearl, Gertrude Edith, Bus.....Pt Angeles
Pearson, Anna C, UD, Educ..Payette, Ida
Pearson, Benj, J.....Gig Harbor
Pearson, Lenora, LD, BA.....Seattle
Pearson, Mrs Mabel Didricksen, LA..Seattle
Pearson, Merrill, LD, LA.....Seattle
Pearson, E, H.....Seattle
Pearson, Mabel V, FA.....Bothell
Pease, Carroll Colvin, LA.....Marysville
Pease, Estelle, Sci.....Seattle
Pease, Eva L, LD, Sci.....Seattle
Pease, Robert O, LA.....Seattle
Pederson, Lawrence Benhard, Bus...Seattle
Pedicord, George Willard, Bus.....Spokane
Pedersen, Sarah H, LD, FA....South Bend
Pederson, Russell T, Uncl, LA.....Seattle
Peebles, O E, Law.....Hoquiam
Peel, Marian, LD, LA.....Seattle
Peers, Rose F, Sci.....Wenatchee
Peha, Albert J, Phar.....Seattle
Pelligrini, Angelo M, LA.....McCleary
Pellegrini, Frank A, LA.....Seattle
Pellegrini, Rosalie, LA.....Seattle
Pelto, Ethel P, LD, Sci.....Tieton
Pelto, Walter E, UD, For.....Tieton
Peltret, Edward Hinch, LA.....Seattle
Pelz, Freda E, Grad.....Seattle
Pelz, Gladys, LA.....Seattle
Pemberton, Joseph T, LA.....Olympia
Pence, Etta, LA.....Seattle
Pendleton, Dorothy Iris, LA.....Seattle
Pendleton, Lois, Sci.....Seattle
Penhall, Elizabeth, LA.....Seattle
Penington, Ruth E, FA.....Seattle
Pennell, Donald F, Engr.....Seattle
Percival, Dorothy L, LA.....Seattle
Perdue, Edgar A, LA.....Seattle
Perkins, Melville F, Grad.....Tacoma
Perring, Norman Claude, Engr....Olympia
Perry, Grace Lillian, LA.....Lakeside
Person, Henry A, LA.....Tacoma
Personeus, Lewis H, Engr.....Seattle
Perusse, George Francis, Engr....Spokane
Peters, Evan R, LA.....Zillah
Peters, Henry William, LA.....Tonasket
Peters, Laura, FA.....Seattle
Peters, Louis C, Bus.....Seattle
Peterson, Alma, Sci.....Langley
Peterson, Alvin A, Phar.....Seattle
Peterson, Amy, Sci.....Monroe
Peterson, Arleen, LA.....Spokane
Peterson, Arthur C, Engr.....Seattle
Peterson, Besse Catherine, LA.....Seattle
Peterson, Carrie H, UD, Educ.Wardner, Ida
Peterson, Charlotte, LA.....Hoquiam
Peterson, E Jennings, Law.....Seattle
Peterson, Elva K, Uncl, Sci.....Seattle
Peterson, Grace H, Grad.....Seattle
Peterson, Hugo A, Bus.....Tacoma
Peterson, Irene, LA.....Seattle
Peterson, Juanita, FA.....St Peter, Minn
Peterson, Juliette, LA.....Seattle
Peterson, LaVerne R, LD, BA.....Seattle
Peterson, Lillian, LA.....Sitka, Alaska
Peterson, Marie I, Edu.....Olalla
Peterson, William M, LA.....Onalaska
Petkovits, Xenia, LA.....Seattle
Petrick, Arnold A, Spec, Engr.....Seattle
Petrie, Roy A, Bus.....Seattle
Petroske, Lawrence, LA.....Lacey

Pettengill, Floyd George, Phar.....Auburn
Pettifer, Mildred, LD, BA.....Seattle
Pettigrew, Anna, Bus.....Cle Elum
Pettit, Henry M, Bus.....Seattle
Pettit, Lester Ward, Bus.....Seattle
Petty, William Henry, Sci.....Seattle
Pfeffer, R H, For.....Spokane
Pfeiffer, June, LA.....Seattle
Phelan, Grace, LA.....Seattle
Phelps, Carnes, LA.....Tacoma
Phelps, Elbridge Turber, Engr.....Tacoma
Phelps, Ellen, LA.....Seattle
Phelps, Howard R, Engr.....Tacoma
Phelps, Saralette, LA.....Seattle
Phelps, Walter V R, Bus.....Seattle
Philbrick, Howard R, Bus.....Hoquiam
Phillips, Aileen Naomi, LA.....Odessa
Phillips, Clinton G, Bus.....Seattle
Phillips, Constance, FA.....Seattle
Phillips, Earl A, LA.....Seattle
Phillips, F Glenn, LD, Sci.....Seattle
Phillips, Mrs Elizabeth M, LA.....Seattle
Phillips, Eldridge Howard, Sci.....Odessa
Phillips, Irene B, Edu.....Montesano
Phillips, Jessie W, UD, FA.....Seattle
Phillips, Julius B, Fsh.....Fairfax
Phillips, Olive E, LA.....Seattle
Phillips, P, M, Engr.....Seattle
Phillips, Walter T, LA.....Tacoma
Pickard, Ward L, LD, LA.....Seattle
Pickering, Orr, FA.....Seattle
Pidduck, Marjorie, FA.....Seattle
Pierce, Burton B, LA.....Seattle
Pierce, Clarence W, Law.....Seattle
Pierce, Dorothy A, LA.....Seattle
Pierce, Earl Riebe, Engr.....Seattle
Pierce, Florence B, LA.....Seattle
Pierce, Mildred, Sci.....Seattle
Pierson, Glen D, Uncl. BA.....Mt Vernon
Pierson, Richard, Bus.....Seattle
Pifer, Augustus P, Fresh, iMnes....Seattle
Pigott, Josephine, Edu.....Seattle
Pigott, Lucinda C, Edu.....Wapato
Pigott, R Stephen, LD, Mines.....Seattle
Pigott, Valeria, Grad.....Seattle
Pihl, Frank Theodore Jr, Bus....Puyallup
Pike, Mark J, LD, For.....Yakima
Pillard, Ray A, UD, LA.....Seattle
Pinard, Florence, LA.....Kent
Pinkerton, Lloyd, Engr...Fairbanks, Alaska
Pinkham, Anita Barlow, FA.....Seattle
Piper, Nelle, Bus.....Ventura, Cal
Pittack, Arthur H, Bus.....Bremerton
Pittendrigh, Dora, LA.....Seattle
Pival, Raymond Frank, Bus.....Spokane
Plank, Faye, LA.....Seattle
Platt, Ruth Elizabeth, Grad.....Seattle
Playter, Gray, Bus.....Seattle
Plechner, Alfred, Bus.....Seattle
Plemon, Gladys, LA.....Wallula
Plont, Milo B, Bus.....Bellingham
Plumley, Fred, Spec, BA.....Fargo, ND
Plummer, Morris, Grad.....Pt Townsend
Plummer, Willis Alfred, Bus...Pt Townsend
Poe, Earl B, Bus.....Puyallup
Poeth, John F, Bus.....Kalama
Polacheck, Edna G, LA.....Yakima
Polet, Emily P, FA.....Nome, Alaska
Polkinghorn, Lee M, For..Storm Lake, Iowa
Pollard, Jean, LA.....Seattle
Pollard, Ray B, Bus.....Opportunity
Pollock, David Edward, Bus.....Seattle
Pollock, Herbert W, So, Engr.....Seattle
Pollock, Paul, Sci.....Seattle
Pollock, Raymond W, Fsh.....Anacortes
Pollock, Robert N, Engr.....Seattle
Pollock, Samuel, Fr, Engr.....Seattle
Pollock, Theresa A, Lib.....Vancouver
Pollom, Arta, LA.....Chehalis
Pollom, Lois, FA.....Chehalis
Polson, Genevieve, LA.....Mt Vernon
Pomeroy, Allan, Sci.....Seattle
Pongala, Carl E, Fr, Engr.....Tieton
Pool, Esson J, Bus.....Wenatchee
Poole, Abbie, Phar.....Seattle
Poole, Bonnie, Grad.....Seattle
Poole, Edward G, Grad.....Seattle
Poole, Ethel, FA.....Seattle
Pooley, Frank B, Grad.....Spokane
Pope, Dorothy C, LA.....Seattle
Pope, Ethel Marie, Bus.....Seattle
Pope, Myrtle, Bus.....Raymond
Poplack, Essie, Sci.....Bellingham
Porep, Helen, LA.....Seattle
Porter, Allen S, LD, BA.....Seattle
Porter, Charles A, Jr, Engr....Wenatchee
Porter, Dorothy Isabel, LA.....Wenatchee
Porter, Mary Helen, Sci.....Remington
Porter, Robert Dickey, Engr.....Seattle
Porter, William L, Fr, Engr....Wenatchee
Post, Eleanor Virginia, LA..Pasadena, Cal
Postlewaite, Mark A, Engr.....Vancouver
Potter, Donald, LA.....Spokane
Potter, Dorothy Anne, FA....Dillon, Mont
Potter, Helen, LA.....Spokane
Potter, Henry G, Sci.....Edmonds
Potts, Arthur H, Engr....Los Angeles, Cal
Pounds, Viola Dean, LA.....Dayton
Powell, Charles L, Law.....Selah
Powell, Pearl, LA.....Puyallup
Power, Edward Allen, Bus.....Oak Harbor
Powers, Anna M, Grad.....Seattle
Poy, William Jue, Sci.....Portland, Or
Poyneer, Almeda M, LA.....Everett
Poyneer, Paul, For.....Everett
Pratt, Ivan S, Bus.....Seattle
Pratt, Juanita Parchen, LA.....Seattle
Pratt, Richard W. Grad.....Batavia, NY
Pray, Max LeRoy, LA.....Seattle
Predmore, Alice E, LA.....Seattle
Pre Fontaine, Kenneth Bus.Green Bay, Wis
Prentice, Dudley, Bus.....Auburn
Preppernau, Charles, UD, For.....Kent
Prescott, J E, Engr.....Lake Forest Park
Prescott, Nellie T, UD, LA.....Spokane
Preston, Rachel, Sci.....Seattle
Prevost, Albert, Bus.....Seattle
Price, Mary Josephine, FA.....Seattle
Price, Russell Smith, Engr.....Tacoma
Price, Willam H, For.....Seattle
Prickett, Arthur, Uncl, Engr.....Seattle
Priebe, Lloyd H, Engr.....Renton
Priebe, Robert Edward, Engr....Bellingham
Prim, John E. Law.....Seattle
Pringle, William H, LA.....Seattle
Pringle, Robert A, Fr, Engr.....Everett
Pritchard, Stanley Earl, LA.....Veradale
Pritchard, Mrs Roma H, Grad.....Seattle
Proelss, Maurine, LA.....Seattle
Proffitt, Lehman M. Bus.....Centralia
Provan, Ferne Alice, LA.....Seattle
Pruessman, Margaret, Bus.....Seattle
Pruessman, Will, Engr.....Seattle
Prye, Gertrude M, LA....Pasadena, Cal
Puette, Raymond V, Edu.....Hickory, NC
Pugh, Anne C, Edu.....Seattle
Pugh, Venetia, FA.....Juneau, Alaska
Putnam, Gertrude E, LD, LA.....Seattle
Putnam, Marguerite E, Grad.....Seattle
Putman, Ruth A, LA.....Seattle

Quast, Thomas, Fsh.....Seattle
Quigley, Ruth M, LA.....Yakima
Quilliam, Harold J, LD, BA.....Seattle
Quimosing, Dionisio, Engr.....Philippines
Quindoy, Francisco, Fr, Engr....Philippines
Quinlivan, Quentin, Sci.....Seattle
Quinnell, Henry Oliver, Engr.....Seattle

Quinnell, Orlando, Engr.....Seattle
Quistoroff, Wallace, Engr.....Gig Harbor

Raasch, Leonard D, Grad.....Kent
Raban, Adelyne F, LA.....Seattle
Rabel, Leigh W, Bus.....Seattle
Raber, Ruth M, LD, LA.....Tacoma
Rachmanoff, Boris A, Engr.....Seattle
Racine, Marguerite, LA.....Seattle
Rader, Melvin Miller, LA....Walla Walla
Radford, Mrs Zilpha E, UD, LA..Seattle
Radin, Carl, Engr.....Seattle
Radke, Ryle August, Sci.....Everett
Rae, Francis H, Bus.....Seattle
Rafish, Yetta, LA.....Butte, Mont
Rafn, Harold John, Grad.....Puyallup
Rafter, Philip, LA.....Seattle
Ragozina, Raisa A, LD, LA.....China
Raichle, Katherine B, Sci.....Yakima
Raichle, Marcus S, LA.....Yakima
Raine, William T, Engr.....Bellevue
Ramm, Dorothy, Uncl, LA.....Seattle
Ramm, John B, Engr.....Seattle
Ramos, Manuel S, LA.....Philippines
Ramsay, J, Finley, Sci.....Vernon, BC
Ramsden, Ray W, Bus.....Aloha
Ramstad, Carl, A For.....Everett
Randall, Arthur, Engr.....Seattle
Randall, Helen Jean, LA....Portland, Ore
Randall, Wesley M, LA.....Seattle
Randolph, Sarah T, LD, LA.....Seattle
Ranjo, Feodolo, Uncl, BA.....Philippines
Ranning, Fred, Bus.....Seattle
Ransome, Wayne S, Uncl, LA.....Seattle
Rantz, Fred A, Sci.....Seattle
Rapp, Margaret C, FA.....Vancouver, BC
Rasmuson, Evangeline, LA.Skagway, Alaska
Rasmussen, Alice I ,LD, BA....Mt Vernon
Rasmussen, Irving, FA.....Prosser
Rasmussen, Winfield Albert, Engr...Sultan
Ratliffe, Elizabeth, Sci.....Maberly
Rau, Charles G, LD, LA.....Seattle
Raudenbush, George, LA.....Tacoma
Ravelli, Henry, Engr.....Seattle
Rawlings, Margaret, LA.....Tacoma
Rawson, Charlotte, LA.....Seattle
Rawson, Frances, FA.....Puyallup
Ray, Harold W, Bus.....Seattle
Ray, M Earl, Bus.....Seattle
Ray, Verne, LA.....Seattle
Raymond, Elizabeth M, Sci..Hannibal Mis
Read, Clifford W, Min.....Seattle
Read, Edsall P, Engr.....Hoquiam
Reardon, Kelron W, LA.....Monroe
Redenbaugh, Dorothy D, Sci.....Seattle
Reder, Edward Henry, Bus.....Olympia
Redford, Walter, Grad.....Seattle
Redington, Bernice, FA.....Seattle
Redpath, Catherine Alice, LA.....Olympia
Redpath, Lindley, R, Bus.....Seattle
Reed, Bonnie J, UnUcl, Sci.....Tacoma
Reed, Donald L, Jr, Engr.....Centralia
Reed, Frank Campbell, Engr.....Shelton
Reed, Genevieve E M, LA.....Redmond
Reed, Helen Van Alen, Sci.....Seattle
Reed, Ruth Ellen, Bus.....Redmond
Reeder, Joseph McAlister, Bus.....Seattle
Reeder, Thomas August, FA.....Seattle
Reedy, Franklin A, LA.....Seattle
Reekie, Richard, Phar.....Seattle
Reep, Ellen, Edu.....Everett
Reese, Delbert B, LD, BA.....Yakima
Reese, Mary Elizabeth, Phar.....Seattle
Reeve, Stanley J, Bus.....Chico
Reeves, James, Bus.....Seattle
Refling, Arnold, Law.....Snohomish
Refling, Norman, LA.....Snohomish
Rehbock, Donald, Sci.....Yakima
Rehm, Jack Richard, LA.....Aberdeen
Reichert, Marguerite C, Sci.....Seattle
Reid, Alice Mildred, LA.....Seattle
Reid, Beatrice, Jour.....Seattle
Reid, Frances, LA.....Seattle
Reid, Melvin D, LA.....Seattle
Reid, William Thomas, Engr.....Seattle
Reiley, Sara Frances, FA.....Seattle
Reily, John E, Law.....Seattle
Reinelt, Herbert R, LA.....Valier, Mont
Reinertsen, Edwin A, Bus.....Everett
Reisdorf, Mary Elizabeth, LA.....Seattle
Reise, Herman Adolph, Engr.....Puyallup
Reisig, Rhea, FA.....Seattle
Reiter, Bernard, Law.....Seattle
Relf, Engenia, Edu.....Seattle
Remelin, Edith, Edu.....Ellensburg
Remigailo, Vladimir M, Engr.....Seattle
Remington, Cecil S, Bus.....Selah
Remy, Evelyn Mildred, FA.....Seattle
Remy, Frances, LA.....Seattle
Reneau, Emily, Bus.....Seattle
Renhard, Julius A, Engr.....Aberdeen
Renn, Ruth, LA.....Chelan
Renn, Vivian, LD, LA.....Chelan
Reno, Benjamin Franklin, LA...Bellingham
Renshaw, Robert, Bus.....Seattle
Renwick, Edward C, LD, LA.....Spokane
Requa, Earl Francis, LA.....Everett
Requa, Lulu Mildred, FA.....Seattle
Rettig, Marie, LD, BA.....Spokane
Retzer, Lawrence, Bus.....Seattle
Reusch, Dorothy, Sci.....Yakima
Revelle, Helen, LA.....Seattle
Reyes, Benigno T, LA.....Philippines
Reynells, Lois K, Edu.....Tekoa
Reynolds, Alice L, FA.....Portland, Ore
Reynolds, Joseph W, Grad.....Renton
Reynolds, Myron, Min.....Seattle
Rhind, Earl S, LD, LA.....Seattle
Rhodes, Fred H, Sr, Engr.....Seattle
Rhodes, Leonard, Grad.....Seattle
Rhoads, Charles Emery, LA.....Everett
Rhoten, Walter G, LD, LA.....Seattle
Rice, Charles A, Bus.....Eagle, Idaho
Rice, Gilman Greenough, Engr....Cashmere
Rice, Kenneth S, Engr.....Seattle
Rice, Raymond A, LA.....Finley
Richards, John S, Bus.....Spokane
Richards, Leon W, Phar.....Seattle
Richards, Ruth, LA.....Spokane
Richards, Thelma, LA.....Seattle
Richards, W Gordon, UD, LA....Seattle
Richards, Wm G, Engr.....Seattle
Richards, Willis C, For.....Quincy, Ill
Richardson, Elizabeth, Grad.....Yakima
Richardson, Ward Ingels, Engr....Tacoma
Richardson, William A, Bus.....Seattle
Richardt, Erich, Bus.....Seattle
Richmond, Mabel, FA.....Seattle
Richey, Mrs Charles A, Edu.....Seattle
Richter, Leo, Phar.....Puyallup
Richter, Roland, Sci.....Vancouver
Rickard, Richard M, LA.....Seattle
Rickles, David N, Grad.....Seattle
Rickerts, Helen Louise, LA.....Seattle
Riddiford, Ruth, LA.....Spokane
Rider, Maurice A, LD, LA.....Yakima
Riebe, Edmund Albert, Bus.....Seattle
Rieger, Erqin, J, LA.....Seattle
Rietz, George A, For.....Seattle
Rigg, Raymond Reuel, Sci.....Seattle
Riggs, Otis J, LA.....Wapato
Riggs, Katherine J, LA.....Seattle
Riley, Fenwick, LA.....Bellingham
Ringer, Dorothy Marion, LA.....Seattle
Ripley, Cecil R, LD, BA.....Seattle
Riss, Arthur H, Grad.....Seattle
Riss, Eleanor G, LD, LA.....Seattle
Riste, Clara Edna, LA.....Seattle
Riste, Ida G, LA.....Seattle

Riste, Victor E, LA.....Seattle
Ritchie Elisabeth L, LD, LA.....Seattle
Ritter, John Edward, For.....Republic
Rivers, Ralph J, LD, LA.....Seattle
Rivera, Simeon, Sci.....Philippiens
Rixon, G Theodore, LD, LA....Pt Angeles
Roach, Robert Raymond, LA.....Seattle
Roach, Russel, Bus.....Seattle
Roaney, Marland Burnet, Edu..Bellingham
Robb, Marian, LA.....Seattle
Robbie, Alexander C, Grad..Cedar Rapids, Ia
Robbins, Floyd D, Engr.....Olympia
Robbins, Nadine Irene, LA.....Seattle
Roberson, Ray, Engr.....Everett
Roberts, Charles M, Grad.....Erie, Pa
Roberts, Donald Hugh, Bus..Portland, Ore
Roberts, Freeman Alex, LA.....Seattle
Roberts, Case B, For.....Seattle
Roberts, Joseph D, LD, LA.....Seattle
Roberts, Margaret, Edu.....Seattle
Roberts, William John, LA.....Kendall
Robertson, Dana A, LA.....Seattle
Robertson, Donald, Bus.....Seattle
Robertson, James Jr, Engr.....Seattle
Robertson, James Campbell, For....Spokane
Robertson, Kenneth, Engr.....Cashmere
Robertson, Loring C, Bus.....Payette, Ida
Robinson, Benjamin, Bus.....Centralia
Robinson, C Morris, Engr.....Olympia
Robinson, Chas Richard, LA.....Vashon
Robinson, Clyde A, Law.....Everett
Robinson, Florence May, LA.....Seattle
Robinson, H Gerald, Engr.....Seattle
Robinson, Helen Rhoda, Sci.....Edmonds
Robinson, Nathaniel, Engr.....Seattle
Robinson, John S, LA.....Seattle
Robinson, Rose, LA.....Centralia
Robinson, Sylvanus Lee, Bus.....Edmonds
Robison, J Holt, Sci.....Longview
Robson, Wesley, LA.....Spokane
Roche, Phil Q, Sci.....Spokane
Rochester, James M, LA.....Tacoma
Rock, Estelle C, LD, FA.....Seattle
Rockwitz, Alice, LA.....Seattle
Rodgers, Dorothy E, LA.....Seattle
Rodman, Margaret C, UD, LA..Nampa, Ida
Roe, Howard Earl, For.....Auburn
Roe, Muriel E, LA.....Seattle
Roehr, Dorothy E, Sci.....Seattle
Roesch, George E, Bus...Colorado Spgs, Col
Rogers, Agnes, FA.....Anacortes
Rogers. Catherine, Sci.....Seattle
Rogers, Cecil E, Sci....Petersburg, Alaska
Rogers, Leroy J, For.....Seattle
Rogers, Melna, Bus.....Seattle
Rogers, Russell, Bus.....Spokane
Rognan, Esther B, LA.....Seattle
Rohowits, Edythe K, LD, LA.....Seattle
Rohowitz, Gerald M, LA.....Seattle
Rohrbeck, Catherine, FA.....Seattle
Roll, Gladys Genevieve, LA.....Seattle
Romischer, William, Min.....Seattle
Roney, Ward Wm, LA.....Duvall
Roose, Clarence, N, LA.....Arlington
Roper, Otis, Engr.....Yacolt
Root, Helen M, LA.....Bellevue
Roscoe, Keith, LA.....San Diego, Cal
Roscoe. R Theodore, Engr.....Edmonds
Rose, Dorothy, FA.....Olympia
Rose, Jean Margery, LA———Pt Angeles
Rose, Perome Joseph, Bus.....Seattle
Rose, Julia Florence, FA.....Seattle
Rose, Keith, Bus.....Molson
Rose, Robert Chas, LA.....Olympia
Rosen, Johanna J, Sci.....Monroe
Rosendahl, Ily, LA.....Northport
Rosenquist, Oscar W, Sci.....Bow
Rosenstein, Sophie, LA.....Portland, Ore
Rosete Francisco, Sci.....Seattle
Rose, Arthur, Fsh.....Seattle
Ross, Donald L, Engr.....Bellingham
Ross, Doreen F, LD, BA.....Seattle
Ross, Florence Alice, Sci.....Seattle
Ross, Frank L Jr, Bus.....Seattle
Ross Fred Kenneth, LA.....Vancouver
Ross, George Wm, LA.....Spokane
Ross, Harold E, Uncl, BA.....Oakville
Ross, Harry L, Engr....Honolulu, Hawaii
Ross, Margaret, LA.....Seattle
Ross, Robert B, Bus.....Edmonsd
Rosted, Daniel Post, For.....Kelso, N-D
Roth, Adolph, For.....Washougal
Roth, Gordon Louis, LA...Faribault, Minn
Roth, Robert, UD, Sci.....Seattle
Rounds, Mrs Paul, Sci.....Seattle
Roush, Wm Frederick, LA.....Seattle
Rousseau, I E, Edu..Wisconsin Rapids, Wis
Roving, Helen, LA.....Seattle
Rowell, Irving H, Engr.....Seattle
Rowntree, R Henry, Grad.....Seattle
Rowse, Helen Brackett, Edu.....Seattle
Rowse, William A, For.....Seattle
Roy, George William, Engr.....Seattle
Royster, Helen, LA.....Seattle
Rozell, Joshua H, LD, LA.....Seattle
Rubin, Audrey Emily, LA.....Seattle
Rubinstein, Doris, For.....Seattle
Rucker, Gladys, Sci.....Seattle
Rucker, Jasper, LA.....Everett
Rudd, Viola, Sci.....Seattle
Ruddell, Hazel, LD, LA.....Seattle
Rudisill, Joanna, Sci.....Spokane
Rue, Walter D, LD, LA.....Seattle
Rue, William, Edu.....Bellingham
Ruffcorn, Geraldine, FA.....Seattle
Runden, Ruth Irene, LA.....Bremerton
Runtz, George, Jr, LD, Sci.....Seattle
Russell, Dorothy, FA.....Seattle
Russell, Floyd, Uncl, Engr..Springston, Ida
Russell, George V, FA..San Bernardino, Cal
Russell, Roy Nickerson, Bus.....Chewelah
Russell, Vernon D, LA.....Touchet
Russell, Walter Harold, Engr.....Spokane
Russell, William A, Grad.....Seattle
Rustia, Manuel S, Grad.....Philippines
Rutledge, Chas, Edward, Engr.....Seattle
Ruthledge, Ralph M, Grad.....Seattle
Ryan, Benjiman, F, Bus.....Mukilteo
Ryan, Florence, LA.....Seattle
Ryan, Frank Wm, LA.....Bremerton
Ryan, Grace Henrietta, LA.....Stanwood
Ryan, Hale E, Bus.....Seattle
Ryan, Homer N, Law.....Seattle
Ryan, John E Jr, Law.....Seattle
Ryan, Katherine, Bus.....Castle Rock
Ryan, Maurice F, Bus....Fraser Mills, BC
Rydeen, Thelma Anna, LA.....Seattle
Ryder, Edmund, Engr.....Seattle
Ryder, Maud, Grad.....Seattle
Ryus, Emmett H, Bus.....Seattle
Ryus, Helen Elizabeth, Sci.....Seattle
Ryushin, Okihara, UNCL.....Seattle

Saddoris, Helen A, LD, FA.....Tacoma
Sahli, Walter A, LA.....Hoquiam
Saindon, Floyd, LA.....Chehalis
Sakuma, Yasuharu, Grad.....Japan
Salandra, Dominic, Grad....Portland, Ore
Salazar, Felino O, Sci.....Philippines
Salisbury, Albert P, LD, For.....Seattle
Sallam, Benton, Uncl, LA.....Spokane
Salter, Wm, Engr.....Pt Blakeley
Saltman, Alex, Bus.....Seattle
Sammis, Howard Lowden, Law....Seattle
Sample, George A Jr, Bus.....Seattle
Samsel, Howard Z, Bus.....Seattle
Samuelson, Byron August, Grad..Pt Roberts
Samuelson, Bogandoff, Mayme, Edu..Seattle

Samzelius, Alpha, FA.....Monroe
Sanchez, Isabelo G, Sci.....Philippines
Sandall, Loretta, Mae, LA.....Seattle
Sanders, John Charles, Engr.....Seattle
Sanders, Leslie, For.....Seattle
Sandstrom, Lorentz, Bus.....Seattle
Sanford, David John, Bus.....Seattle
Sanford, Edward Albert, LA.....Seattle
Sanford, Eddie, Bus.....Bucoda
Sanford, Harrison R, Bus.....Seattle
Sanford, Henry S, Bus.....Seattle
Sanford, Marcu, Uncl, Engr.....Pomeroy
Sanger, Harry Clifford, Bus....Payette, Ida
Sangster, Ted, Bus.....Clarkston
San Juan, Pantaleon, Fsh.....Seattle
Sankelas, Wm Emanuel, For.....Ilwaco
Sannes, Ingeborg Marie, FA..Madison, Wis
Santiago, Jose F, Sci.....Philippines
Sargent, Charles W R, LD, LA....Seattle
Sarro, Nicholas, Sci.....Seattle
Sato, Kimiji, Fr, Engr.....Seattle
Sato, Teizo, LA.....Japan
Satoris, Fred, Bus.....Baker, Ore
Satre, Alice, Edu.....Stanwood
Salter, William, Engr.....Rolling Bay
Saunders, Mrs G, LD, Sci.....Seattle
Saunders, Mary C, LA.....Wenatchee
Saunders, Virginia, LA.....Seattle
Savage, Anthony, Law.....Seattle
Savage, Mrs Florence H, FA.....Seattle
Savage, George Milton Jr, FA.....Tacoma
Savage, Margaret E, Sci.....Tacoma
Savannah, Edward J, Grad.....Seattle
Savery, Barnett, LA.....Seattle
Savery, William Jr, Sci.....Seattle
Sawyer, Curtis E, Phar.....Seattle
Sayler, Charles D, LA.....Seattle
Sayles, Helen Elizabeth, LA.....Seattle
Sayre, Elinore, FA.....Seattle
Sayre, Harrold, LD, For.....Seattle
Sayre, Margaret De Milt, Grad....Tacoma
Scarbrough, Dorothee, LD, LA....Olympia
Schacht, Ronald W, LA.....Burlington
Schaefer, Isadore, LA.....Seattle
Schaefer, Oscar, Bus.....Seattle
Schaeffer, Claude, For.....Seattle
Schafer, George Herbert, Engr.....Seattle
Schaffer, Norwood K, Sci.....Seattle
Schaill, Clayton M, Sci.....Seattle
Scharr, Freeman C, LA.....Seattle
Scheffer, Theodore C, Engr.....Puyallup
Scheffer, Victor B, LD, Sci.....Puyallup
Schegolkov, Mrs Tatiana K, LD, Sci.Seattle
Schegolkov, Victor, Uncl, Engr....Seattle
Scheitlin, Frieda, LA.....Glendive, Mont
Scheuch, Carl W Jr, LA.....Zenith
Schell, Thomas Jefferson, LA.....Seattle
Schenk, Edward R Jr, LA....South Bend
Schenken, Robert C, LA.....Seattle
Scherk, Dorothy Patricia, LA.....Seattle
Schermer, Jack M, LA.....Seattle
Scheuch, Carl W, LA.....Seattle
Scheurman, Ruby, LA.....Seattle
Scheyer, Myra E, Phar.....Sedro Woolley
Schibig, Walter J, LD, BA.....Wapato
Schickling, Richard, LD, BA.....Seattle
Schichinohe, Sanzo, Grad.....Japan
Schimke, Leo Leonard, Phar.....Odessa
Schick, Robert, LA.....Wilbur
Schlageter, Frederick C, Engr...Bremerton
Schlageter, Harold J, FA.....Bremerton
Schlarb, Elizabeth, LA.....Tacoma
Schlegel, Hoover M, Bus.....Everett
Schlenker, Chester, Bus.....Seattle
Schlosstein, Clifford F, LA.....Yakima
Schmid, Calvin F, LA.....Seattle
Schmidt, Ethelyn Z, LA.....Seattle
Schmidt, Ida Julia, Sci.....Cle Elum
Schmidtman, Robert E, Engr.....Auburn
Schmidt, Mildred Mary, LA.....Seattle
Schmidtz, Ferlinand F Jr, For.....Seattle
Schmoyer, Clyde Lawry, LA.....Seattle
Schneider, George M, Engr..Rossland, BC
Schneider, Kurt W, LD, FA.....Seattle
Schoenfeld, L Kenneth, Bus.....Seattle
Schoettler, Robert Joseph, Bus.....Seattle
Schofield, Alfred G, Jr, Mines.....Seattle
Schofield, Gwendolyn, LA.....Seattle
Schofield, R H C, LA.....Seattle
Scholz, Ernest, Bus.....La Crosse
Schooley, John M, Bus.....Zillah
Schram, Catherine, LA.....Seattle
Schrock, Mary, LA.....Seattle
Schroeder, Ellen M, LA.....Seattle
Schroeder, Marvin L, LA.....Seattle
Schubert, Helen, LA.....Seattle
Schuett, Henryetta Louise, LA.....Seattle
Schuh, Leroy Charles, Engr.....Everett
Schultz, George, LA.....Seattle
Schuman, Sara Hirsch, FA....Bellingham
Schunke, Gustave B, Sci.....Seattle
Schurman, Lenora, Sci.....Seattle
Schuss, Albert Gilford, LA.....Kelso
Schuyler, James F, Bus..Des Moines, Iowa
Schwabacher, Bertha, LA.....Seattle
Schwager, Helen Louise, FA.....Seattle
Schwager, Lewis Jr, LA.....Seattle
Schwald, Patrick J, Bus.....Walla Walla
Schwarz, Eleanor, FA.....Seattle
Schweizer, Carl A, LD, BA.....Seattle
Scofield, Susan Ada, FA.....Tacoma
Scoones, Phyllis E, LA.....Seattle
Scott, Barbara H, Grad.....Seattle
Scott, Clayton A, Sci....Ashland, Kentucky
Scott, Elsie Margaret, LA.....Twisp
Scott, Harlan, LA.....Spokane
Scott, Herbert J, Engr.....Seattle
Scott, Hilda Viola, LD, LA.....Seattle
Scott Frances I, Sci.....Seattle
Scott, Hilda, Sci.....Seattle
Scott, Jens, T, Bus.....Seattle
Scott, Marjorie, Sci.....Seattle
Scott, Myron A, For.....Mukilteo
Scott, Neil Donald, Bus.....Wenatchee
Scott, Robert McDonald, Engr.....Seattle
Scott, Robert W, Edu.....Woodland
Scott, Thomas E, Bus.....Seattle
Scott, Violet, LA.....Seattle
Scoville, Ray R, Engr.....Seattle
Scriven L E, Sci.....Seattle
Seabury, Jessie M, LA.....Seattle
Seagraves, H, E, Engr.....Seattle
Seails, Margaret C, LA.....Seattle
Seamons, Joe, Engr.....Tacoma
Seamons, Joe Engr.....Tacoma
Sears, Edith K, LA.....Deer Lodge, Mont
Sears, Katherine Ethel, Sci.....Seattle
Sebree, Dorothy Mary, Sci..So Pasadena Cal
Secrest, Ruth V, FA.....Seattle
Seecamp, John F, Engr.....Seattle
Seel, Kathryn Jane, LD, FA.....Tacoma
Seeley, James Selby, Sci..Anchorage, Alaska
Seelye, Helen L, LA.....Seattle
Segerstrom, Edna, Bus.....Seattle
Seidell, Stanley A, LA.....Sedro Woolley
Seidenfeld, Morton A, Phar.....Seattle
Seidensticker, Lucy, LA.....Seattle
Seifert, Helen, LA.....Bremerton
Seijas, Amador Ralph, LA.....Seattle
Seitzick, J K, LA.....Seattle
Selby, Kenneth E, Edu.....Bellingham
Selby, Miriam, Edu.....Bellingham
Selgelid, Orville J, Edu.....Burlington
Sells, John A, Sci.....Bellingham
Seltzer, Alvin F, Grad.....Seattle
Seltzer, Lawrence, Law.....Spokane
Selvidge, Lewis, LD, LA.....Olympia
Semon, Darrell S, Bus.....Dallas, Ore
Seno, Hideo, Bus.....Japan
Sensening, Kathryn V, LA....Boise, Ida

Senty, George F, LD, BA....Billings, Mont
Serrano, Bartholome, Sci.....Philippines
Seton, Thompson, Fsh.....Seattle
Sever, Louis M, LD, BA.....Colfax
Sey, Martha Coral, Sci....Douglas, Alaska
Seyler, Ernestine M, LA....Pt Arthur, Ont
Seymour, Gladys Elizabeth, LA....Seattle
Seymour, Glen, Edu.....Ellensburg
Schakleford, Martha W, Grad.....Tacoma
Shafer, Herbert, LA.....Tacoma
Shafer, Katherine Anne, LA.....Seattle
Shaffner, Mary M Mrs, Sci.....Tacoma
Shager, Grant, Sci.....Seattle
Shah, Aurang, Sci.....Seattle
Shain, Julius, LA.....Seattle
Shaller, Jim Lloyd, Bus.....Seattle
Shanafelt, Wm Adelbert, LA....Sunnyside
Shank Charles H, Grad.....Seattle
Shank, Edward, LA.....Long Beach
Shank, Virginia, LA.....Seattle
Shanks, Beatrice Mary, LA..Portland, Ore
Shanks, Clyde W, Bus.....Payette, Ida
Shaposhnikoff, Anatole, Engr.....Seattle
Shaposhnikoff, George, Fr, Engr.....Seattle
Sharnbrioch, Loraine W, LD, LA.Pt Angeles
Shattuck, Curtis, LA.....Seattle
Shattuck, Margaret, LA.....Seattle
Shattuck, Virginia, Sci.....Alaska
Shaughnessy, Albert E, Fr, Engr...Seattle
Shave, Milton Walter, Bus.....Seattle
Shaw, Clayton B, LA.....Spokane
Shaw, Frank Allen, LA.....Seattle
Shaw, Gretchen A, FA.....Seattle
Shaw, Harry A, LA.....Seattle
Shaw, Hugh Walter, LA.....Victoria, BC
Shaw, Josephine Mae, LA.....Seattle
Shaw, Marian E, FA.....Seattle
Shaw, Mary F, LA.....Loleta, Cal
Shaw, Melville Arthur, LA.....Yakima
Shaw, Miachen S, Bus.....China
Shaw, Richard P, LA....San Francisco, Cal
Shaw, Robert A, LA.....Seattle
Shaw, Samuel Edward, LA...Portland, Ore
Shaw, Tich Chen, UD, BA.....Seattle
Shaw, Virgil F, UD, LA.....Seattle
Shea, Ruth B, LD, LA.....Mt Vernon
Sheahan, George C, Bus...Los Angeles, Cal
Shedd, Harold Layton, LA....Shedd, Ore
Sheehan, Paul Vincent, LA.....Everett
Sheets, Hilma Ilene, FA.....Seattle
Sheldon, Frances A, Edu.....Madison, SD
Shelley, Elizabeth A, FA.....Seattle
Shellum, Adelbert John, Engr.....Seattle
Shelton, Arthur L, Edu.....Seattle
Shelton, Mrs Carrie F, Edu.....Seattle
Shelton, Lucy M, Grad.....Seattle
Shendrusoff, Geo, E, Engr.....China
Shephard, Elizabeth M, LD, LA..Wenatchee
Shephard, Mrs Esther, Grad.....Seattle
Shephard, Kathryn Mary, LA.....Seattle
Shepheard, Percy N, Bus.....Victoria, BC
Sheppard, Jessie, Sci.....Seattle
Sheppard, Lucille, Bus.....Seattle
Shera, Brian L, Engr.....Tacoma
Sheridan, Helen C, LA.....Seattle
Sheridan, Mary Agnes, FA.....Seattle
Sheriff, Joseph Monroe, Engr.....Seattle
Sherman, G Corlis, LD, LA....Portland, Or
Sherman, Leslie A, Bus.....Everett
Sherrer, Helen M, Sci.....Seattle
Sherrick, Mrs Hazel, Grad.....Seattle
Sherrill, H D, Engr.....Tacoma
Shiach, Florence E, FA.....Ephrata
Shiller, Harold, Bus.....Seattle
Shidler, Will L, Grad.....Seattle
Shields, Josephine E, LA.....Seattle
Shields, Josephine R, LA.....Seattle
Shigaki, G M, FA.....Seattle
Shigemura, Chieko, Bus.....Pt Blakeley
Shinabargar, Jean Doreen, Sci....Vancouver
Shinkai, James Y, LA.....Seattle
Shinkai, T T, Engr.....Seattle
Shinkle, Morton Catherine, LA.....Seattle
Shinoda, Akira, Engr.....Tacoma
Shiomi, Roy Y, Engr.....Seattle
Shipton, Pauline A, LA.....Chelan
Shoblad, Ralph, LD, BA.....Seattle
Sholtz, Celia B, UD, LA.....Cosmopolis
Shonosuke, Takeuchi, Bus.....Japan
Shore, Beatrice, Uncl, Sci.....Pt Angeles
Shorett, John B Jr, Bus.....Seattle
Shorett, Lamont Judson, FA.....Seattle
Shorrock, Paul, Bus.....Seattle
Shoup, Fred F, Engr.....Puyallup
Showell, Gwendoline, LA.....Bryn Mawr
Showell, Philip S, Sci.....Bryn Mawr
Shrader, Merwin J, Bus.....Harrington
Shreeve, Clarence, Sci.....Seattle
Shryock, Antonette, Jour.....Seattle
Shucklin, Gerald, LA.....Seattle
Shuester, Valentine F, Uncl, For.....China
Shuler, Beryl, Sci.....Seattle
Shull, Josiah Theodore, Grad.Missoula, Mt
Shulte, Philip Raymond, Sci..Oakland, Cal
Sibbert, Ira Newton, FA.....Puyallup
Sibley, Bernice, LD, FA.....Seattle
Sickler, B J, Bus.....Yakima
Sickles, Trent Alton, Phar.....Seattle
Sidell, Irving, Bus.....Seattle
Siegley, David P, Engr.....Seattle
Siegrist, Herbert H, Bus.....Seattle
Sievers, Harold, Bus.....Everett
Sievers, Roy, Bus.....Everett
Silfrast, Dagmar, Bus.....Mullan, Ida
Sill, Charles F, LA.....Seattle
Sillman, G H, Engr.....Seattle
Silva, Julio, W Bus.....Seattle
Silvers, Josephine, Edu.....Mt Vernon
Silverstone, Elly, Bus.....Seattle
Simbe, Roman S, LD, LA.....Philippines
Simis, Richard Charles, LA.....Vancouver
Simmonds, Dorothy P, FA.....Seattle
Simmons, Robert Tullus, For.....Bothell
Simon, Henrietta Pauline, Bus.....Seattle
Simonsen, Tobias, Uncl, FA.....Bellingham
Simonson, Charles, Phar.....Stanwood
Simpson, Donald, LA.....Seattle
Simpson, Ellene V, FA.....Spokane
Simpson, Leonard, Bus.....Seattle
Simpson, Ted W, Phar.....Everett
Simpson, V L, LD, BA..San Francisco, Cal
Sims, Bertha May, LA.....Victoria, BC
Simson, Louis, Bus.....Seattle
Sinclair, Edyth Grace, LA.....Naches
Sinclair, Robert W, LD, BA....Vancouver
Singer, Cecil Allen, Bus.....Seattle
Singer, Harold, Bus.....Seattle
Singer, Howard Wm, For.....Vancouver
Sinnes, Lawrence, Uncl, BA.....Bellingham
Sisler, Dorothy, LD, FA.....Seattle
Sister Mary Patrick, Grad.....Seattle
Sister Esther Mary, Edu.....Seattle
Sister Mary Patrick, Grad.....Seattle
Sjaastad, Anna O, UD, Educ..Tagus, ND
Skartwedt, Elmore A, For....Pt Madison
Skeith, Anastasia B, LA..New Dayton, Alta
Skidmore, Samuel A, Bus.....Tacoma
Skinner, Barbara, LA.....Seattle
Skinner, Kenneth Guy, Engr.....Aberdeen
Skinner, Selby M, LA.....Seattle
Slack, Forrest W, Bus.....Pacific
Slane, Harold, LA.....Seattle
Slauson, Celeste, LA.....Seattle
Slavin, Jacob, Sci.....Seattle
Slawson, Chas S Jr, Bus.....Spokane
Slawson, Donald Boyd, FA.....Seattle
Slawson, Ellwel G, FA.....Seattle
Sleeman, Bertram Clarence, Engr..Seattle

Slick, Opal M, Sci.....Seattle
Slingsby, Kenneth Mathias, LA....Seattle
Slipper, Marianne L, LA.....Seattle
Slipper, Thomas Armine, LA.....Hamilton
Sloan, Wayland C, Bus.....Seattle
Slowinske, George Anton, Engr...Seattle
Slusher, Charlotte B, Grad.....Seattle
Slyland, Marianne F, LA.....Seattle
Smaby, Marie H, Sci.....Ocean Falls, BC
Smador, Seljas, LA.....Seattle
Small, Everett, Bus.....Everett
Smetheram, Francis E, Bus.....Spokane
Smith, Aileen Mary, LA.....Seattle
Smith, Alverna Rowena, LA.....Seattle
Smith, Bernice, LA.....Enumclaw
Smith, Bertha May, Edu.....Centralia
Smith, Brock, LD, LA.....Bellingham
Smith, Byron B, Edu.....Cheney
Smith, Cecil H, LD, FA.....Bellingham
Smith, Charlotte Burgess, LA....Wenatchee
Smith, Cornelius James, Engr..Victoria, BC
Smith, Delmar E, Engr....Anaconda, Mont
Smith, Dorothy Alice, LA.....Tacoma
Smith, Dorothy, FA.....Seattle
Smith, Dorothy Marie, Bus....Wenatchee
Smith, Edna B, LA.....Seattle
Smith, Elizabeth Daubert, Edu....Endicott
Smith, Floyd F, LA.....Vancouver
Smith, Floyde Harold, Bus.....Seattle
Smith, Frederick, Engr.....Seattle
Smith, Frederick Richmond, Bus...Seattle
Smith, Gerald David, Bus....Miller River
Smith, Graham John, LA.....Seattle
Smith, Greta M, LA.....Vancouver
Smith, Hall, Bus.....Seattle
Smith, Harriet, LA.....Mt Vernon
Smith, Harriette Gladys, LA.....Arlington
Smith, Harry Jr, Bus.....Bellingham
Smith, Herbert Hawley, Engr.....Elma
Smith, Herman F, LD, LA.....Seattle
Smith, Hjordis C, FA.....Seattle
Smith, Iloe V, FA.....Seattle
Smith, Irving M, Engr.....Seattle
Smith, James G, Law.....Seattle
Smith, James Yocum, Bus.....Seattle
Smith, Jessie E, LA.....Seattle
Smith, John Carson, Engr.....Bellingham
Smith, Joseph Bryan, Law.....Seattle
Smith, Katherine Macrae, LA...Bellingham
Smith, Lloyd B, Bus.....Seattle
Smith, Lonise A, LA.....Mt Vernon
Smith, Marjorie, LA.....Seattle
Smith, Martha Elliott, LA.....Seattle
Smith, Mildred E, LA.....Seattle
Smith, Mitchell, Sci.....Mt Vernon
Smith, Orville L, LA.....Naches
Smith Paul R. LA.....Seattle
Smith, Raymond C, Engr.....Merritt
Smith Richard A, LD, BA.....Colbert
Smith, Richard M, Engr.....Seattle
Smith, Richard W, Engr.....Ellisport
Smith, Roscoe A, Bus.....Seattle
Smith, Roy Martin, Engr.....Spokane
Smith, Ted H A, LD, Sci.....Seattle
Smith, Thad O, Min.....Seattle
Smith, Theodore F, LD, Sci.....Seattle
Smith, Thomas Robert, Phar.....Seattle
Smith, Tremaine John, Law.....Colbert
Smith, Troy, LA.....Olympia
Smith, Wayne C, Bus.....Lynden
Snider, Claude F, Engr.....Weston, Ore
Snider, Floyd, Engr.....Seattle
Snider, Leonard E, Bus.....Weston, Ore
Snider, Ralph Marion, Engr.....Puyallup
Snider, William Joseph, FA.....Puyallup
Snidow, Harriet V, Grad....Willamette, Ore
Snoke, Albert Waldo, Sci.....Puyallup
Snyder, Harold C, LA.....Seattle
Snyder, Hart Law.....Seattle
Snyder, James L, Sci.....Seattle
Snyder, Loyal R, LA.....Seattle
Soderling, Harriet Irene, FA.....Seattle
Sogard, Albert M, Jr Bus.....Seattle
Sogn, Harold Elmo, Sci..Anchorage, Alaska
Soller, Telesforo G, Sci.....Philippines
Sommer, Engenie, LA.....Seattle
Sommers, Buford, Sci.....Spokane
Sonju, Norman, Fsh.....Seattle
Sonnet, B Wm, Bus.....Seattle
Sopwith, Edward Charles, Engr....Seattle
Sorber, Gladys D, FA.....Seattle
Sorensen, Andrew, Bus.....Ellensburg
Sorensen, Florence Marie, FA.....Seattle
Sorenson, Gladys M, FA.....Bellevue
Sorenson, N Harold, Grad.....Ellensburg
Soss, James M, LD, LA.....Spokane
Sossaman, Gretchen, LD, LA.....Seattle
Sotto, Engenio J, LA.....Philippines
Sowle, Jack, Engr.....Seattle
Southern, Vinton, Law.....Seattle
Southwell, Lorene, Sci.....Tacoma
Southwick, Charles Ulysses, Grad....Chelan
Spaeth, Aileen, Sci.....Alaska
Spankie, Donald F, For....Vancouver, BC
Sparkman, Harold, Bus.....Seattle
Sparling, Donald, Engr.....Hoquium
Sparkling, George M, For.....Seattle
Spaulding, Armour F, LD, BA....Seattle
Spaulding, Daniel W, LA.....Kelso
Speaker, Walter L, LA.....Duvall
Spear, Helen Elizabeth, FA.....Seattle
Spelman, Francia C, LA.....Seattle
Spencer, Dean, LA.....Seattle
Spieth, Amelia, LA.....Yakima
Spicer, Mildred Gertrude, Sci.....Hoquiam
Spillers, Curtis Walter, For.....Seattle
Sporseen, Dagny E, LA.....Sequim
Sprague, Dorothy, LD, LA.....Yakima
Sprague, Milton A. Engr.....Seattle
Spring, Seymour O, Bus.....Yakima
Springer, Eleanor Alice, Sci.....Seattle
Springer, Estelle, Sci.....Seattle
Springer, Jack Lowell, Bus.....Seattle
Springsteen, Margaret, LA.....Seattle
Sprinkle, Frances M, LA.....Tacoma
Spurgeon, Este Bonnell, Sci.....Seattle
Spurgeon, Gwendolyn, LA.....Seattle
Squire, Fred C, LD, BA.....Yakima
Stack, Eugene E, LA.....Seattle
Stadler, Anne C, Spec, Sci.....Pateros
Stafford, Elizabeth, LA.....Seattle
Stager, Helen, Sci.....Seattle
Stalberg, Vera, LA.....Everett
Stamm, C Henry, Sci.....Seattle
Standard, Alta, FA.....Seattle
Standard, Gertrude Olive, LA.....Seattle
Stanley, Emery R, For.....Seattle
Stanley, Ethelbert C, LA.....Burton
Stanley, Evelyn M, LA.....Seattle
Stanley, Marjorie R, FA.....Portage
Stare, Elizabeth, LA.....Seattle
Starin, Edward, Law.....Seattle
Stark, Eugene Edward, LA.....Seattle
Stark, Jeannette, LA.....Seattle
Starr, Anne Edith, LA....Anderson, Ind
Starr, Geraldine, LA.....Seattle
Starr, Oscar Louis, Grad.....Seattle
Stastny, Minnie J, Grad.....Seattle
Staten, Francis A, Bus.....Seattle
Steadman, Vera, Sci.....Seattle
Steele, Coralee Ikie, LA.....Seattle
Steele, Eleanor Marie, LA.....Seattle
Steele, Helen D, Edu.....Seattle
Steele, Lloyd, Engr.....Everett
Steelman, Charlotte, Grad.....Seattle
Steelman, Elizabeth, LD, LA.....Seattle
Steffen, Lawrence Paul, LA..Portland, Ore
Steiner, Griffith Dean, Bus.....Okanogan
Stephens, Gertrude M, Grad.....Seattle

Stephens, Irene M, LA.....Seattle
Stephens, Mildred B, LA.....Seattle
Stephens, Loren Earl, Bus.....Centralia
Sterling, Gaylord Lemuel, Bus..Ellensburg
Stern, Cecil Stanley, Bus.....Seattle
Stern Edward F, LA.....Seattle
Sterrett, Nellie V, LA.....Seattle
Stevens, Belle A, Grad.....Maltby
Stevens, Catherine Bicknell, LA....Seattle
Stevens, George, Engr.....Everett
Stevens, Guy E, Bus.....Seattle
Stevens, Letha Loring, LA...Evanston, Ill
Stevens, Richard, Bus.....Seattle
Stevens, Robert R, Bus.....Seattle
Stevenson, Harold J, Bus.....Seattle
Stevenson, LaRue R, LA.....Seattle
Stevenson, Robert John, LA.....Seattle
Stewart, Chester F, Min.....Seattle
Stewart, Dorothy Cecil, Sci.....Seattle
Stewart, Harold A, Min.....Seattle
Stewart, Jean Douglas, FA...Mereer Island
Stewart, Malcolm L, Bus....Mercer Island
Stewart, Oliver, Engr.....Seattle
Stewart, Philip H, Engr.....Seattle
Stewart, Richard H, LA....New York, NY
Stewart, Ruth, LA.....Seattle
Stickels, Carrie Elaine, Sci.....Seattle
Stickney, Lyman B, LD, LA.....Bothell
Stiles, Dorothy Della, LA.....Seattle
Stillman, Allyn P, For.....Spokane
Stillman, Frances, LA.....Spokane
Stillwell, Edward M, Grad.....Seattle
Stirling, Thos Brents, Law....Walla Walla
Stirrat, James, Bus.....Seattle
Stith, Kathryn, LA.....Seattle
Stith, Richard Lewis, Engr.....Seattle
St John, C Harold, Bus.....Chehalis
Stockard, Melvin, LD, Sci.....Everett
Stockwell, Malcolm, LA.....Aberdeen
Stockwell, Richard, Bus.....Aberdeen
Stokes, Margaret Ruth, LA.....Seattle
Stoltz, George Edgar, For.....Ione
Stombaugh, John Webster, For..Vancouver
Stone, Edward T, LA.....Seattle
Stone, Harold Riley, LA.....Seattle
Stone, Helen B, LA.....Cosmopolis
Stone, Howard C, Engr.....Seattle
Stone, Leslie Amos, Bus.....Bellingham
Stonecipher, Mue Blanche, FA..Waitsburg
Stoneman, A V, LA.....Seattle
Storey, Eunice, LA.....Seattle
Storey, Guinevere, Sci.....Kirkland
Stout, Wesley Edward, Bus..Billings, Mont
Storwich, Thoralf Angle, Sci.....Silvana
Stover, Leona, Sci.....Seattle
Stoves, Margaret L, FA.....Roslyn
Stowell, Ralph J, Bus.....Seattle
Stoy, Nell Stewart, LA.....Seattle
St Peter, Jean M, Bus.....Seattle
St Peter, Neva M, FA.....Seattle
Strachan, Gertrude, FA.....Seattle
Strahl, Merton Palmer, Sci.....Seattle
Strain, Kenneth, Bus.....Seattle
Stranack, Gladys Marie, LA.....Seattle
Strand, Erling, LA...Petersburg, Alaska
Strand, Robert E, UD, BA.Great Falls, Mont
Strand, Ruth, Sci.....Seattle
Strandberg, Herbert V, Engr.....Seattle
Stranz, Martin F, LD, For.....Seattle
Strazzer, George Michael, LA.....Seattle
Stratton, Harold M, For.....Seattle
Stratton, Irving R, 1st Yr, Law...Seattle
Strauss, Herman A, Sci.....Colfax
Strecker, Well, FA.....Spokane
Street, Francesca, LA.....Seattle
Strevey, Elmer, Grad.....Kennewick
Stritch, Irene Isabel, LA..Reed Point, Mont
Strizek, Paul J, Engr.....Seattle
Strom, Ellen Johanna, Bus.....Seattle
Strong, F W LD, BA.....Pittsfield, Mass
Strong, Gladys D, Grad....Pasadena, Calif
Strong, Richard S, LD, LA.....Seattle
Strong, Ruth B, Grad.....Seattle
Stronin, George N, Uncl, Sci.....Seattle
Strother, Adelyn, LA.....Los Angeles, Cal
Stroud, Rollin Chester, LA.....Seattle
Stroud, Ruth, Sci.....Sheridan, Wyom
Stroud, Warren L, Phar....Sheridan, Wyom
Strouse, Margaret, FA.....Seattle
Strout, Hazel M, LD, Pharm.....Seattle
Stryker, Gretchen, FA.....Everett
Stuart, Laura E, LD, LA.....Seattle
Stuermer, Ernest Herbert, Engr..Harrington
Stuht, Wm Boyd, Bus.....Spokane
Stunkard, Isabel, Sci.....Seattle
Stunkard, Clarence Russell, Bus....Seattle
Sturgis, Alice E, LA.....Sturgis, Mich
Sturgis, Henrietta J, LA.....Sturgis, Mich
Sturgis, Isabel Andre, LA.....Seattle
Stybor, Winifred Marie, LA.....Seattle
Sugiyama, Frank, Phar.....Kent
Sullivan, Marie, Bus.....Seattle
Sullivan, Mark, LA.....Seattle
Sullivan, Ora Gertrude, Sci.....Seattle
Sullivan, Rose C, LA.....Seattle
Sully, Charles D, LD, BA.....Seattle
Summers, Wayne M, LA.....Seattle
Sun, Hsieh Chee, Bus.....Du Pont
Sundstrom, Elizabeth, LA.....Du Pont
Sundstrom, Roy, LA.....Hoquiam
Sundstrom, Wm James, Bus.....Du Pont
Sunich Mrs Mary M, UD, LA.....Seattle
Suomela, George E, Bus.....Ilwaco
Sutherland, Alice, LA.....Seattle
Sutherland, Jean, Sci.....Seattle
Sutor, John Allen, Phar.....Waterville
Sutter, C Fain, Law.....Seattle
Sutton, Elizabeth, LA.....Seattle
Suzuki, Eitaro, Bus.....Renton
Suzuki, Junkichk, Sci.....Seattle
Swafford, Ruth G Nelson, FA.....Seattle
Swan, Clara, LA.....Shelton
Swan, Clarice, FA.....Tacoma
Swan, John W, Bus.....Seattle
Swanberg, Amy, LD, BA.....Seattle
Swanberg, Arthur, Fsh.....Seattle
Swanberg, Roy, Min.....Seattle
Swanson, Clarence W, Bus.....Leon, Ia
Swanson, Gustave B, Phar.....Edmonds
Swanson, Mabel, Sci.....Tacoma
Swanson, Myrtle L, Bus.....Troy, Mont
Swanson, Ray O, Bus.....Seattle
Swanson, Walter V, LA.....Seattle
Swartz, Fonny Winther, LA.....Seattle
Swartz, Gilbert, Engr.....Olympia
Swartz, Joseph Gibbon Jr, Bus....Seattle
Swearingen, Francis D, Bus.....Seattle
Sweeney, Edwina Florence, LA....Seattle
Sweeney, Frank E, Law.....Seattle
Sweeney, Mary Elizabeth, LA.....Seattle
Sweet, Marie, LA.....Seattle
Swenson, Carl Russell, Engr.....Seattle
Swenson, Elaine, Grad.....Seattle
Swenson, Helen Marie, LA.....Seattle
Swezea, Florence K Johnson, LA...Seattle
Swift, Edward A, Jr, 1st Yr, Law..Seattle
Swift, Ida F, LA.....Seattle
Swinehart, Olivia, LA.....Seattle
Sycour, Charles O, Sci.....Seattle

Taam, Ting Tung, Bus.....Seattle
Taft, Herbert, Bus.....Seattle
Taft, Marian Alice, Lib.....Hoquiam
Taggart, George Moore, Bus.....Seattle
Taggart, Marguerite E, LA.....Seattle
Takahashi, Yoshiomi, LA.....Japan
Takai, Sumi-Ko, FA.....Vashon
Takeuchi, Shonosuke, Bus.....Japan

Talbot, Alex, LA.....Seattle
Talbot, Katherine, LA.....Seattle
Talbot, E Reeve, LA.....Seattle
Talbot, Mary, LA.....Seattle
Tanabe, Y, LA.....Japan
Tanka, Glichi, LA.....Seattle
Tandler, Adolph R, Engr..Los Angeles, Cal
Tang, Nien Yee, Sci.....China
Tang, Sik Pui, Bus.....China
Tagney, Emmett L, Engr.....Seattle
Tanner, Raymond P, LA.....St John
Tanzer, Mrs Gertrude G, LD, LA....Seattle
Tanzer, Max, Bus.....Seattle
Tapert, Harold E G, LD, Pharm..Issaquah
Tappe, Kenneth, For.....Seattle
Tapping, Margaret E, LA.....Bellingham
Tapping, Mary Elizabeth, LD, LA..Seattle
Tapscott, C, B, LA.....Seattle
Tarleton, Lyle, LA.....Vernomie, Ore
Tarr, Frank C, Bus.....Fall City
Tarr, Raymond Porter, LA.....Tacoma
Taskima, Hideo R, Sci...Los Angeles, Cal
Tate, Walter Glenn, Bus.....Sunnyside
Taugner, Conrad, Sci.....Seattle
Taylor, Chester A, LA.....Seattle
Taylor, Dinsmore, Law.....Seattle
Taylor, Don A, LD, BA.....Everett
Taylor, Edgar Carmack, LA.....Seattle
Taylor, Gordon H, LD, BA.....Seattle
Taylor Helen L, LD, LA.....Seattle
Taylor, Irene, Bus.....Seattle
Taylor, James G, Bus.....Seattle
Taylor, Judith, M, LA.....Seattle
Taylor, Kay F, For.....Caldwell, NJ
Taylor, Kyle Elden, FA.....Seattle
Taylor, Lucile, LA.....Seattle
Taylor, Marie, Bus.....Seattle
Taylor, Raymond F, For....Caldwell, NJ
Taylor, Robert W, Bus.....Seattle
Taylor, Roy, Bus.....Seattle
Taylor, Ruth Emma, FA.....Pasco
Taylor, S Fisher, LD, LA.....Seattle
Taylor, William D, LA.....Spokane
Teegarden, Jeanette, Grad..Long Beach, Cal
Teetoumova, Catherine, Bus.....Seattle
Temminck, Mea Henriette, LA.....Seattle
Templeton, David D, Bus.....Hoquiam
Templeton F E, Sci.....Seattle
Tennant, Hugh, Phar.....Pasco
Tennant, Raymond E, Sci..Snoqualmie Falls
Tenney, E Paul, LA.....Seattle
Terhune, Virgil Willis, LA.....Bryn Mawr
Terry, Miriam, FA.....Seattle
Tershin John, Engr.....Seattle
Terwilliger, Beulah May, FA.....Seattle
Terzick, Peter E, Bus.....Rossland, BC
Terzieff, Ottilie, Grad.....Seattle
Tesack, Kathryn, FA.....Seattle
Tesreau, Elmer Lee, Bus.....Chehalis
Tesreau, Thos Lewis, Bus.....Chehalis
Tessman, Edna, Bus.....Seattle
Teters, Bonney, Uncl, LA.....Spokane
Thayer, Walter West, Bus.....Seattle
Theodorson, Alice Theresa, LA..Snohomish
Thiele, Marganethe Caroline, Bus....Seattle
Thielman, Edith May, FA.....Seattle
Thiry, Paul A, FA.....Seattle
Thode, Elizabeth, Sci.....Boise, Idaho
Thole, Marjorie F, LA.....Seattle
Thomas, Catherine, LA.....Hillyard
Thomas, Chester Roland, Bus...Ellensburg
Thomas, Dorothy E, FA.....Seattle
Thomas, Earl B, Bus.....Leland
Thomas, Ferne, LA.....Seattle
Thomas, Grace Hayes, LA.....Seattle
Thompson, H James, Uncl, LA....Tacoma
Thomas, Jack R, Bus.....Sumas
Thomas, John Goulden, Engr.....Seattle
Thomas, Joseph E, LA.....Seattle
Thomas, Joseph E, LA.....Seattle
Thomas, Kenneth P, LD, BA....Wenatchee
Thomas, Margaret, C, Grad....Bellingham
Thomas, Maurice, Edu.....Bellingham
Thomas, Roscoe G, LA.....Seattle
Thome, Helen E, LA.....Granger
Thompsen, Dorothy E, LA.....Aberdeen
Thompson, Adelle, LA.....Enumclaw
Thompson, Alfred, Law.....Raymond
Thompson, Browder J, Engr.....Seattle
Thompson, Doris W, LA.....Portland, Ore
Thompson, Earl G, Engr.....Seattle
Thompson, Glen Wm, Phar.....Barnett
Thompson, Katherine, Sci.....Seattle
Thompson, Keith, Bus.....Pt Angeles
Thompson, Margaret, LA.....Seattle
Thompson, Pearl Edith, Bus.....Raymond
Thompson, Robert, Bus.....Centralia
Thompson, Seton H, Fsh.....Seattle
Thompson, Walter W, FA.....Seattle
Thompson, Wilbur S, FA.....Seattle
Thomsen, Clara Marie, LA..Hood Hiver, Or
Thomsen, Esther, LA.....Sedro Woolley
Thomson, Ernest D, LA.....Seattle
Thomson, Henry E, LA.....Seattle
Thomson, Stuart W, Sci.....Seattle
Thomson, Vello, Phar.....Gold Bar
Thomson, William D, Fresh, Engr..Seattle
Thorne, Thelma M, Sci.....Renton
Thornton, Marion Janet, LA.....Seattle
Thorstenson, Skuld, LA.....Seattle
Thostenson, George H, Bus.....Seattle
Thrailkill, Wm L, Engr.....Seattle
Thurston, Robert C, LA.....Yakima
Tiemeyer, William F, LD, BA....Langley
Tikku, Madan Sal, Uncl, Engr....Bay City
Tiller, Arnt, Grad.....Seattle
Tilley, John Norman, Sci.....Everett
Tilton, Earl M, Uncl, LA.....Spuokane
Tilton, K Elwood, Engr.....Seattle
Timm, Henry Theodore, Sci....Harrington
Tipton, George, Sci.....Seattle
Titlow, Marcus Rosser, LA.....Tacoma
Titus, Irene Belle, LA.....Boise, Idaho
Tobey, Lono Wilkinson, Phar.....Elma
Tobie, Paul, Sci.....Greenacres
Todd, Seldon Page, Engr.....Seattle
Togo, Yone, Engr.....Seattle
Toles, Martha, LA.....Centralia
Tollefson, Thorwald, LA.....Tacoma
Tomlinson, Mervyn W, LD, BA....Seattle
Tompkins, C E, UD, BA..Grant's Pass, Or
Toner, George M, Bus.....Sunnyside
Tonkin, Kathryn, LA.....Seattle
Too, Che Pin, LA.....Java
Toole, Margaret, Uncl, Sci.....Seattle
Torbitt, Harry, Eng.....Longview
Torney, Mrs Elizabeth F, LA.....Seattle
Torney, Jack Alfred, LA.....Seattle
Torppa, Erie Sylvia, LA.....Woodland
Tower, James Allen, LA.....Spokane
Tower, Pearl, Grad.....Seattle
Towey, Crul M, LA.....Olympia
Towle, Elizabeth C, Uncl, BA.....Seattle
Townsend, James Reilly, Fsh..Victoria, BC
Townsend, Larmon B, Sci....Shelby, Mont
Townsend, Lucile Evelyn, LA.....Seattle
Townsend, Lorita, LA.....Seattle
Townsend, Paul, LA.....Seattle
Tracy, Jack Stewart, Bus.....Seattle
Tracy, James D, For.....Seattle
Trakat, Mrs Mamie Agnes N, Sci...Seattle
Travis, Virginia, LA.....Seattle
Treffry, Ralph, LA.....Spokane
Trembly, Robert B, LD, For.....Yakima
Trentle, Fred Geo, Engr.....Gig Harbor
Trethewny, Lauren B, LD, BA.....Seattle
Trezise, Norman, LA.....Tolt
Trick, Berton G, Uncl, BA.....Seattle

Trick, Helen M, UD, Educ.....Seattle
Trimble, E Stewart, Sci.....Seattle
Triplett, Wm Bryan, Bus.....Seattle
Tripp, Eva, LA.....Juneau, Alaska
Tripp, Kenneth Bliss, For.....Spokane
Troeh, Paul R, LA.....Vancouver
Troeh, Sylvia, FA.....Vancouver
Trosper, Lois Grace, LA.....Seattle
Trow, Florence, Bus.....Seattle
Trowbridge, Kennard S, For..Augusta, Ga
Troy, Ruth, Phar.....Olympia
Troy, Smith, LA.....Seattle
Troy, Thomas B, LA.....Seattle
Trubshaw, Herbert R, LD, BA....Sumner
Truesdall, Roger W, Grad..Redlands, Cal
Trullinger, Mary Elizabeth, Sci....Seattle
Trumbull, Barbara Ellen, LA.....Seattle
Trumbull, John Thomas, Law...Pt Angeles
Tsand, Yale Y, LA.....China
Tsi, Hsiao-Chih, Bus.....China
Tsui, Tit Shann, Bus.....China
Tsung, Hsien Tsun, Bus.....China
Tucker, Joseph Marshall, Bus....Ellensburg
Tucker, Lena L, Grad.....Seattle
Tucker, Roy Francis, Bus.....Seattle
Tucker, W S, Law.....Seattle
Tuell, Irving, LD, Sci.....Tacoma
Tupper, Cecil C, Bus.....Spokane
Turnacliff, Dudley W, Phar.....Seattle
Turnacliff, Joseph Lloyd, Bus.....Seattle
Turner, Alice G, LA.....Seattle
Turner, Alma Reese, Bus.....Seattle
Turner, Arthur F, Engr.....Seattle
Turner, Charles P, For.....Everett
Turner, Dorothy Margaret, Sci....Chewelah
Turner, Edwin T, FA....Great Bend, Kan
Turner. Elizabeth, LA.....Seattle
Turner, John Clark, LA.....Seattle
Turner, John, Bus.....Seattle
Turner, Laura Anna, Grad.....Seattle
Turner, L Gordon, LA.....Chewelah
Turner, Mary Elva, Grad.....Woodinville
Turner, Otis L, LD, LA.....Melbourne
Turtle, Alice, FA.....Spokane
Tuttle, Aileen H, Sci.....Linton No, Dak
Tutrumova, Catherine, Bus.....Seattle
Tyler, James Campbell, Bus.....Seattle
Tyler, Wilson, LA.....Olympia
Tytherleigh, Philip Estep, LA.....Seattle

Uchimura, Kiwa, LD, LA.....Japan
Ude, William W, Bus.....Spokane
Uehlinger, Mildred A, Bus.....Spokane
Uhden, Esther D, Edu.....Seattle
Uhlmann, Martha, LA.....Centralia
Uhlman, Wm Paul, Law.....Centralia
Ulbrickson, Alvin, LD, BA.....Seattle
Ulrich Victor C, Engr.....Seattle
Ulvested, Solveig C, LA.....Seattle
Umphrey, Edward L, Grad.....Albany, Or
Underhill, Julia A Mrs, Sci.....Seattle
Upcraft, W S, LA.....Seattle
Upton, George, Sci.....Seattle
Upton, Ralf Wm, LA.....Seattle
Ura, Jutaro, LA.....Japan
Urakawa, Yoshio, Fresh, Engr.....Seattle
Ure, Lawrence, LD, BA.....Seattle
U'Renn, Dorothy, LA.....Seattle
Ureta, Satero G, Fr, Engr....Philippines
Urness, E Vance, LD, BA.....Colfax
Urquhart, Irene, LA.....Seattle
Urstad, Herman T L, LD, Sci..E Stanwood
Ushakoff, Demetry D, Bus.....Russia
Ushanoff, Vaselie, Fresh, Engr.....Seattle
Usher, Albert S, LA....Great Falls, Mont
Ustiantseff, Peter K, Engr.....Seattle

Valdez, Maria, LA.....Philippines
Valentine, B Gordon, Uncl, BA.Roulette, Pa
Van Antwerp, Maurice A, Phar....Sequim
Van Arsdol, Maurice D, Engr...Clarkston
Van Bakkelen, W K, Bus....Berkeley, Cal
Van Buskirk, Edwin, Engr.....Edmonds
Van De Walker, D H, Bus.....Seattle
Van de Wetering, George, LA.....Lynden
Vandercook, Esther, LA.....Longview
Vander Las, Harold Ross, Sci.... .Seattle
Van, Eric P, Bus.....Seattle
Van Frank, Esther N, LD, Sci....Seattle
Van Gorder, Lynn Seely, Sci.....Seattle
Van Horn, Margaret, LA.....Tacoma
Van Horn, Theodora, LA.....Tacoma
Van Houten, Grace, Edu.....Bellingham
Van Houten, Lois, LA.....Bellingham
Van Ostran, Mary Jo, LA.....Seattle
Van Petten, Frank, Bus.....Spokane
Van Stralen, Francis J, Bus.....Manette
Van Syckle, Albert Harvey, Bus..Cosmopolis
Van Syckle, Edwin T, LD, LA..Cosmopolis
Van Tilborg, Elizabeth, Sci.....Seattle
Van Tilborg, Laurence D, Sci.....Seattle
Van Tilborg, Mary, LA.....Seattle
Van Vlack, Douglas, Bus.....Tacoma
Van Voris, Cecil S, Bus.....Seattle
Van Winkle, Bertha M, Sci..Abingdom, Ill
Van Zante, Jean, LA.....Tacoma
Varney, A M, UD, Educ..Kansas City, Mo
Vassar, Arthur, J. Bus.....Seattle
Vaughn, Marvin B, LD, LA.....Ferndale
Veitch H Albert, Engr.....Seattle
Velasco, Victorio A, LA.....Philippines
Velikanje, Stanley P, LD, LA.....Yakima
Vercules, Antonio M, Uncl, BA..Philippines
Verhulst, Herbert John, Phar.....Seattle
Verhamme, Evelyn, LA.....Seattle
Vernon, Wm. Horace, Bus.....Burnett
Verrinder, Ford, Bus.....Seattle
Vesoga, Arne, LA.....Douglas, Alaska
Vetter, Geo B, Grad.....Machias
Viehman, Grace Mary, Bus.....Seattle
Villegas, Andres P. Engr.....Philippines
Villesvik, Ida S, Grad.....Seattle
Villesvik, John Berger, FA.....Tacoma
Vincent, Chester, Grad.....Seattle
Vincent, Russell, Engr.....Seattle
Vincent, Will P, Sr, Mines.....Puyallup
Vining, June Gladys, LA.....Seattle
Vinning, Maurice N, Bus.....Seattle
Vinyard, Ted. Engr.....Tacoma
Visser, Wm R, Engr.....Seattle
Voerge, Julius, Sci.....Seattle
Vogler, Sybil Leone, LA.....Seattle
von Neida, Isabelle, LD, LA.....Seattle
von Oldenburg, Katherine, LD, FA..Seattle
Voorhees, Frank Ellis, Engr.....Seattle
Voorhees, Melvin Bernard, LA....Tacoma
Voyer, Alexander Cyril, Bus.....Seattle
Villiet, Frank L, Engr.....Seattle

Wabraushek, Doris, LA.....Seattle
Waddell, Edna, LD, LA.....Seattle
Waddell, Margaret, UD, LA.....Colville
Waechter, Florence, LA.....Seattle
Wafer, Barbara, Grad.....Seattle
Waggener, Harold L, LD, LA.....Seattle
Waggoner, Ralph, LA.....Juneau, Alaska
Wagner, Augustus A, Grad.....Vancouver
Wagner, Edward Knapp, Sci....Bremerton
Wagner, Robert Howard, Engr.....Seattle
Wagner, William, Bus.....Seattle
Wahl, Leonora M, UD, LA.....Seattle
Wahl, Ralph E, Bus.....Bellingham
Wahlgren, Conrad, Bus.....Seattle
Wahlstrom, Nelson, Bus.....Seattle
Wailes, Ronald D, Fresh, Engr..Eaton, Colo
Wait, Thelma, LA.....Seattle
Walby, Eugene V, LD, BA.....Seattle
Walck, Ida, LA.....Tacoma

Waldo, Arthur H, FA.....Raymond
Waldo, Dorothy F, Uncl, LA.....Seattle
Waldron, Nora, LA.....Seattle
Wales, Fern Katherine, Bus.....Seattle
Wales, Helen, LA.....Seattle
Walker, Cedric Wm, For....St Patrick, BC
Walker, Charles Leonard, Bus.....Seattle
Walker, Chas W, Engr.....Ellensburg
Walker, Donald B, Bus.....Seattle
Walker, Edmund Bruce, LA.....Seattle
Walker, Edward S, Bus.....Tacoma
Walker, G H, For.....Tacoma
Walker, Margery K, LD, LA.....Shelton
Walker, Omar Arthur, Bus.....Bellingham
Walker, Orin, LA.....Seattle
Walker, Richard D, Sr, Engr.Anaconda, Mo
Walker, Richard R, Engr.....Seattle
Walker, William B, LA.....Seattle
Wall, Kathlene Darden, LA.....Seattle
Wallace, Florence Ella, LA.....Seattle
Wallace, Genelle, Grad.....Seattle
Wallace, Jean Margaret, Sci.....Tieton
Wallace, John D, LA.....Ainsworth
Wallace, Roberick Alvin, Edu.....Seattle
Wallace, Wm A, Engr.... .....Seattle
Waller, Lilian, LA.....Seattle
Waller, Ruth Adeline, LA.....Seattle
Wallgren, Lloyd E, Engr.....Everett
Walling, Dow, LA.....Bellingham
Wallingford, Don L, LD, BA.....Seattle
Walsh, Alice B, LA....Benkleman, Nebra
Walsh, Bernice, FA.....Everett
Walsh, Ellen Lucille, LA.....Everett
Walsh, Inez Josephine, Sci.....Spokane
Walter, Ellery E, LA.....Seattle
Walter, Ralph, Engr.....Seattle
Walters, Chalmer, LA.....Everett
Walters, Helen Elizabeth, LA.....Seattle
Waltersdorph, Aileen N, FA.....Seattle
Walthews, John Forbes, Law.....Seattle
Walton, Adele Coulson, LA.....Seattle
Walton, Florence Elizabeth, FA....Everett
Walton, Genevieve H, FA.....Everett
Walton, Leon Wendell, For.....Everett
Walton, Pauline E, Grad.....Eugene, Ore
Walton, Peter T, For.....Everett
Walton, Rhea, LA.....Everett
Waltz, Harold D, Sci.....Seattle
Wang, Laura Katherine, LA.....Seattle
Ward, Austin Leroy, Sci.....Onalaska
Ward, Donna Gertrude, FA.....Seattle
Ward, Francis J, LD, LA.....Seattle
Ward, George Frank, Law.....Seattle
Ward, Henry B, LD, LA.....Seattle
Ward, Theodore W, Bus.....Seattle
Ward, Vivian, LA.....Seattle
Ward, William Engene, Sci.....Seattle
Ward, Winfred, FA.....Seattle
Wardrum, Lillie E, Bus.....Snohomish
Ward, Jeannette H, LA.....Seattle
Wark, William W, Bus.....Seattle
Warn, Brenda, LA.....Spokane
Warner, E Ruth, Grad.....Seattle
Warner, Grace, LA.....Seattle
Warner, Kenneth, FA.....Tacoma
Warner, Mary, Sci.....Portland, Ore
Warner, Wilma L, LD, BA.....Seattle
Warren, Clair C, Bus.....Tacoma
Warren, George Fisher, LA.....Seattle
Warren, Grant, LA.....Davenport
Warren, Lucile, Edu.....Seattle
Warrich, Herbert H, Engr.....Seattle
Wascher, Spriggs, For.....Seattle
Washburn, Charlotte, LA.....Seattle
Washizuka, Seuchi, FA.....Seattle
Waskey, Robert, Sci.....Seattle
Watanabe, Iwao Wallace, Sci.....Seattle
Waters, Aaron P, Sci.....Sultan
Waters, Ellen Harriet, Sci.....Seattle
Watkins, Clayton Kenus, Bus.....Seattle
Watkins, Euln May, Edu.....Seattle
Watkins, Gholson, Engr.....Lind
Watkins, Ina Ree, UD, Educ.....Seattle
Watson, Charles H, Grad.....Seattle
Watson, Evelyn, FA.....Seattle
Watson, Maude, LD, LA.....Seattle
Watson, Percy Harold, Bus.....Seattle
Watt, Mabel, Grad.....Seattle
Watt, Phoebe, LA.....Seattle
Watts, Isabel Dorothy, LA.....Seattle
Waugh, Robert, Bus.....Seattle
Wayland, Elizabeth, FA.....Seattle
Weage, Ruth Woodruff, LA.....Seattle
Weaver, Donald K, LD, LA.....Seattle
Weaver, William H, Sci.....Seattle
Webb, Norman Russell, FA.....Seattle
Webb, Pearl Novice, LA.....Wenatchee
Webber, Albert H, Engr.....Seattle
Weber, Donald W, Engr.....Tacoma
Weber, George, Bus.....Spokane
Weber, Lloyd V, Uncl, Pharm.....Seattle
Weber, Louise Marie, LA.....Langley
Webster, Adrian A, LA.....Seattle
Webster, Dorothy, LA.....Pt Angeles
Wedeberg, S M, Bus.....Tacoma
Weedin, Leslie C, LD, BA.....Seattle
Weeding, Ruth, LA.....Seattle
Wehnes, Dorothy, LA.....Tacoma
Weide, Barbara Florence, Sci....Centralia
Weil, Charles F, Engr.....Seattle
Weingartner, Richard A, Bus.....Seattle
Weinstein, Arthur, FA.....Portland, Ore
Weinstein, Dorothy, Grad.....Seattle
Weinstein, Harold, LA.....Portland, Or
Weinstein, Sydney, Sci.....Seattle
Weir, Hugh, LA.....Centralia
Weir, John H, Engr.....Tacoma
Weir, Mary Frances, LA.....Tacoma
Weir, Richard S, Grad.....Tacoma
Weisbrod, Albert L, For.....Owen, Wis
Weiser, John, LA.....Bellingham
Weiss, H Carl, Bus.....Seattle
Welch, Charles Douglass, LA.....Tacoma
Welch, George B, Grad.....Seattle
Weld, Alice, Jour.....Rolling Bay
Weld, Theodore, Bus.....Rolling Bay
Welkanov, Alexander G, Uncl, Engr..Russia
Weller, Clifford, LA.....Tacoma
Weller,, Lawrence L, Phar.....Seattle
Wells, Gordon Dolling, Engr.....Spokane
Wells, Ina, LA.....Fort Collins, Col
Wells, John W, LD, LA.....Portland, Or
Welsh, Burke John, Jour.....So Bend
Welsh, R A, Phar..New Westminster, Can
Welsh, Wm J, Engr.....Tacoma
Welts, Edith B, LA.....Mt Vernon
Welty, John, Engr.....Decatur, Ill
Wendler, Gladys B, Edu.....Cheney
Wentworth, Mrs Joy Mc, Uncl, Sci..Seattle
Wentworth, Lois J, Grad.....Seattle
Wentworth, Margaret, LA.....Seattle
Wentworth, Lois Rosamond, LA.....Seattle
Wernham, J Wm K, Grad..Chepauk-S, India
Werttemberger, R E, Phar..Ritzville, Wis
Wesley, Ray O, Engr.....Seattle
West, John Talbot, Bus.....Leavenworth
West, Lucile, Sci.....Seattle
Westall, Albert James, Edu.....Randle
Westberg, Alfred J, Law.....Seattle
Westby, George Newton, Engr....La Grande
Wester, Virginia, LA.....Seattle
Westerman, Cecil Paul, Bus.....Seattle
Westfall, Virginia, LA.....Seattle
Westgard, Blake, Engr.....Everett
Westland, Jack, Law.....Everett
Westmore, Halward Garfield, LA..Spokane
Weston, Marguerite La Bounty, FA..Seattle
Westrom, Fred, Bus.....Everett

Wetherell, Ernest, LA.....Spokane
Weyer, Margaret M, LA.....Tacoma
Weymouth, Allen Andrew, Sci.....Seattle
Whalley, Alice M, LA.....Seattle
Wheatman, Marion, LA.....Seattle
Wheaton, Harry J, Bus.....Seattle
Wheeler, Beulah O, LD, BA.....Seattle
Wheeler, C T, Bus.....Seattle
Wheeler, Edward B, Bus.....Seattle
Wheeler, J Cecil, Uncl, BA.....Seattle
Wheeler, Raymond Alonzo, Min.....Seattle
Wheeler, Robert F, LA.....Montesano
Wheeler, Wallace Bert, LA.....Goldendale
Wheelihan, Harriot, LA.....Everett
Whelan, Elizabeth, Sci.....Seattle
Whelan, Mary, LA.....Seattle
Whipple, Charles R, For.....Boise, Idaho
Whitcomb, Alice E UD, Educ.....Seattle
Whitcomb, Catherine, LA.....Olympia
Whitcomb, Rollo, LA.....Seattle
White, Alfred Wm, LA.....Olympia
White, Dorothy E, LA.....Monroe
White, Dorothy Rose, FA.....Redmond
White, H Edwin, LA....Lexington, Miss
White, Elizabeth, Sci.....Camp Lewis
White, Engenia D Mrs, LA.....Seattle
White, Helen K, LA.....Seattle
White, Jesse, Edu.....Seattle
White, Leslie A, Sci.....Juneau, Alaska
White, Lorna C, LD, FA.....Seattle
White, Louise, Sci.....Snoqualmie
White, Mrs Lyda A, Grad.....Seattle
White, Mabel, LA.....Seattle
White, Marion I, Grad.....Spokane
White, Mary Helen, LA.....Yakima
White, Myrtis, LA.....Sedro Woolley
White, Rosalind, LA.....Seattle
White, Ruth Bernice, LD, FA.....Seattle
Whitfield, Chester, LD, LA.....Seattle
Whiting, Grace, LA.....Seattle
Whitmore, Maude, Sci.....Buckley
Whitney, Carl, Engr.....Olympia
Whittier, Mrs Doris Callow, Grad....Seattle
Whittlesey, Chas R, Grad.....Seattle
Wicker, Gertrude B, Sci.....Sedro Woolley
Wicker, Jessie, LD, LA.....Sedro-Woolley
Wickman, George E, Engr.....Seattle
Wiegel, Dorotha, Bus.....Tacoma
Wiegel, Margaret Montida, LA..Denver, Col
Wienand, Frederick B, LD, LA....Seattle
Wiesenbach, Ward, Bus.....Richland
Wiester, Clarence, Bus.....Greenacres
Wiesthing Francesca, LA.....Seattle
Wilcox, Clairesse, LA.....Seattle
Wilde, Drummond F, LA.....Seattle
Wilde, Franklin B, Bus.....Seattle
Wilder, Norman Boyd, Bus.....Daboh
Wilder, R H, Engr.....Olympia
Wilding, Gladys, L, LA.....Seattle
Wilfong, Paul, Engr.....Issaquah
Wilhain, James, Engr.....Seattle
Wilke, Mildred La Velle, LA.....Seattle
Wilkins, Helen G, Edu.....Tacoma
Willard, Aileen, LA.....Ventura, Calif
Willard, Lee, Bus.....Seattle
Willeiksen, Wm Thos, Sci.....Seattle
William, Harold, LA.....Seattle
William, Richard Clabeau, Engr....Seattle
Williams, Agnes Christine, Sci....Summer
Williams, Arthur J, Bus.....Seattle
Williams, Barbara Baker, Fa.....Seattle
Williams, Berwyn R, Bus.....Chinook
Williams, Blanche H, LD, LA....Seattle
Williams, Caroline, FA.....Centralia
Williams, Charles H E Jr, Engr....Burton
Williams, Donald Thomas, Engr.....Doty
Williams, Eda M E, UD, Educ...Bellingham
Williams, Eleanor G, LA.....Seattle
Williams, Frances, FA.....Seattle
Williams, Helen G, LA....The Dalles, Ore
Williams, Hugh Paul, Engr.....Seattle
Williams, J Lloyd, LA.....Seattle
Williams, James, Engr.....Seattle
Williams, Kenneth T, Sci.....Seattle
Williams, Mabel H, LA.....Seattle
Williams, Mentor L, LA.....Seattle
Williams, Ray Allison, Engr.....Seattle
Williams, Roberta F, LA.....Seattle
Williams, Ruth Helen, LA.....Seattle
Williamson, James T, LA.....Yakima
Williamson, Julia, Grad.....Seattle
Williamson, L E, Uncl, Fsh Neillsville, Wis
Williamson, Ralph K, LA.....Seattle
Williamson, Robert Leslie, LA.....Seattle
Willis, Robert J, LD, LA.....Goldendale
Willoughby, Elizabeth, Sci.....Grandview
Willson, Edward A, Engr.....Everett
Willson, Gerald Paul, Engr.....Everett
Wilmot, Janice Shay, FA.....Seattle
Wilson, Abe, Bus.....Everett
Wilson, Albert W, LA.....Jour
Wilson, Arthur T, Engr.....Seattle
Wilson, Boland, LA.....Seattle
Wilson, Clotilde, LA.....Seattle
Wilson, Earl Richmond, LA.....Seattle
Wilson, Evelyn Minnie, FA.....Hoquiam
Wilson, Francis B, LD, LA.....Seattle
Wilson, Frank T, Grad.....Seattle
Wilson, Gale E, Sci.....Ridgefield
Wilson, George S, Bus.....Everett
Wilson, Grace, LA.....Seattle
Wilson, Helen Grace, FA.....Seattle
Wilson, Lewis O, Engr.....Seattle
Wilson, Mary, LA.....Portland, Ore
Wilson, Mary, LA.....Seattle
Wilson, Myrtle M, LA.....Seattle
Wilson, Pat, LA.....Burlington
Wilson, Roy Chas, Phar.....Vancouver
Wilson, Thelma, LA.....Seattle
Wilson, Wendell, LA.....Yakima
Wilson, William, Grad...Sand Coulee, Mont
Wilson, William R, Grad.....Seattle
Wimberly, Wm Louis, Sci.....Toppenish
Winegar, Roger McDonnell, LA.....Seattle
Wing, Clark, LA.....Seattle
Wing, Frederick Newton, Bus.....Seattle
Wing, Willis R, LA.....Boise, Idaho
Wingate, Mildred, FA.....Portland, Ore
Winiecki, Bernhard Theo, Engr....Raymond
Winn, Burdett A, Sr, Mines..Juneau, Alas
Winograd, Rabbi Simon, LD, LA....Seattle
Winston, Carey, Bus.....Seattle
Winston, Patrick Henry, LA.....Seattle
Winter, Bryan C, LA.....Seattle
Wintermantle, Pearl, FA.....Seattle
Wiseman, Lillian W, UD, Educ....Seattle
Wiseman, Orville R, Jour.....Seattle
Wisner, Frances Lee, Uncl, FA..Grandview
Witcomb, Douglas A, UD, BA.....Seattle
Witham, Ray, Bus.....Snohomish
Witherby, Lester, Fsh.....Ferndale
Withrow, Faye, LA.....Seattle
Wittenberg, Eva, Phar.....Seattle
Witting, Arthur F, Engr.....Seattle
Wohlmacher, Wm Edw, FA.....Everett
Wojack, F Jr, Min.....Enumclaw
Wolf, Hal, LA.....Seattle
Wolfe, Katherine Alice, Grad..Lincoln, Neb
Wolfe, Merle, Bus.....Seattle
Wolff, Sylvia, LA.....Aberdeen
Wolff, Thelma B, Bus.....Seattle
Wolff, Wanda Marie, Edu.....Ellensburg
Wolfle, Dael L, Sci.....Bremerton
Woll, Katherine, FA.....Seattle
Wollaston, Francis O, Engr....Victoria, BC
Wolthausen, Raymond C, LD, Sci..Buena
Wolz, Elise A, LD, LA.....Seattle
Wong, Chaak Yung, Sci.....China
Wong, James M, Bus.....Sacramento, Cal

Wong, Shing Yipe, LD BA.....China
Wong, Tony K L, Phar.....Seattle
Wong, Violet, Phar.....Vancouver, BC
Wong, Wah Chin, Bus.....China
Woo, Ching-Ming, Engr.....China
Woo, Yuan Chien, LA.....China
Wood, Earl C, Grad.....Clarkston
Wod, Hazel E, Grad.....Seattle
Wood, Lewis C, Engr.....Meadowville
Wood, Merle K, FA.....Seattle
Wood, Merna Eleanor, FA.....Shelton
Wood, Richard, LA.....Nisqually
Wood, Robert E, LD, BA.....Seattle
Wood, Theodore, Bus.....Seattle
Wood, Virginia, FA.....Seattle
Wood William D, Bus.....Vancouver, BC
Wood, Zilphia, FA.....Tacoma
Woodall, Otis, Sr, Engr.....Seattle
Woodard, Hillera C, Bus....Sandpoint, Ida
Woodbury, Lydia A, UD, Educ.....Seattle
Wooden, Retta, FA.....Kent
Woodford, Mildred, LA.....Brighton, Iowa
Woodhouse, Evelyn, LA.....Seattle
Woodhouse, Merle, LA.....Seattle
Woodin, Diadanna, Sci.....Seattle
Woodmansee, Jack, FA.....Mesa, Idaho
Woods, Forrest Melvin, Phar.....Seattle
Woodside, James H. Bus.....Seattle
Woodward, Mrs Carrie D, LD, LA..Seattle
Woodworth, Alice Anne, LA.....Concrete
Woodworth, George S, Uncl, Sci....Seattle
Woodworth, John W, Engr.....Concrete
Woody, Harriet Mary, LA.....Okanogan
Word, Theodore, Bus.....Seattle
Workman, Nadine, LA.....Seattle
Worlow, H Lee, Bus.....Lynden
Worman, Virginia, LD, FA.....Spokane
Wortham, Bob, Bus.....Seattle
Worthing, Flora C, LA....Vancouver, BC
Worthington, Grace, Grad.....Quilcene
Worthington, John C, Fr, Engr....Quilcene
Worthington, Norman P, LA.....Quilcene
Wray, Francis B. For.....Seattle
Wren, Harper, UD, LA.....Seattle
Wright, Calvert, Engr.....Seattle
Wright, Donald, Fsh.....Anacortes
Wright, Doris Louise, FA.....Yakima
Wright, Helen E, UD, LA.....Seattle
Wright, Jack A, LA.....Seattle
Wright, Miriam Frances, LA.....Tacoma
Wright, Quentin B, LD, LA.....Seattle
Wright, Ralph G, Edu.....Seattle
Wright, Richard, Bus.....Seattle
Wright, Robert Creighton, Grad.....Seattle
Wright, Stanley J, Engr.....Seattle
Wright, Vivian Norma, LA.....Seattle
Wright, William W, FA.....Seattle
Wu, Andrew Y, Bus.....China
Wu, C S, LD, LA.....China
Wu, Hsia Yuan, LA.....Japan
Wuskey, Robert Sci.....Seattle
Wurdeman, Walter Charles, FA..Bremerton
Wuthenow Arthur W, Bus.....Seattle
Wuthenow, Dorothy I, LD, FA....Seattle
Wyckoff, Walter L, Bus.....Seattle
Wyers, Tennis J, Law.....White Salmon
Wylde, Edmund Wynter, Sci.....Seattle
Wyngarden, John L, LA.....Granger
Wynn, Geo E, Bus.....El Paso, Texas
Wynn, Walter William, Bus.....Chehalis
Wynne, Ardis Ethlyn, LA.....Ferndale

Yabroff, Elias, Soph, Engr.....China
Yamada, Kunitaro, Engr.....Seattle
Yamagiwa, Joseph Koshimi, Engr....Seattle
Yang, Ching Chang, Uncl, Engr.....China
Ybojos, Marcelino V, Bus.....Philippines
Yeung, P C, LD, BA.....China
Yonemoto, Haruo Ross, Bus.Vancouver, BC
York, Anna Moffatt, Bus.....Tacoma
York, Arthur F, LA.....Tacoma
Yorogi, Shozaburo, Uncl, LA.....Japan
Yoshimura, Tamekichi, Bus.....Seattle
Yoshioka, Fusako, Bus.....Seattle
Yoshioka, Jesse, Sci.....Seattle
Yost, Marian Elinore, Bus.....Seattle
Youell, Thomas Halsey, LA.....Seattle
Youlden, Charles S, Bus.....Seattle
Youlden, Martha, LA.....Spokane
Youle, Gretchen, LA.....Seattle
Young, Albert S, Fr, Engr.....Seattle
Young, Betty, Sci.....Seattle
Young, Catherine A, LA.....Caldwell, Ida
Young, Charlene, Bus.....Sedro Woolley
Young, Clara H, Grad.....Tacoma
Young, Geo A, Min.....Lethbridge, Alta
Young, George W, LA.....Seattle
Young, Glendowin, Bus.....Sedro Woolley
Young, Mae Alice, FA.....Charleston
Young, Ruth M, LD, BA.....Seattle
Young, Wayne L. Bus.....Spokane
Young, Wilbur F, LD, BA.....Centralia
Young, William Wallace, LA.....Seattle
Younglove, Earl Jasper, Bus.....Raymond
Ystrom, John Bernard, Engr.....Seattle
Yulle, Beline, FA.....Seattle

Zamora, Lorenzo L, LA.....Philippines
Zane, Simeson, Bus.....Seattle
Zeeb, Kathryn Ardath, Sci....Haller Lake
Zelher, Honora S, LA.....Seattle
Zelasko, Helen, LA.....Aberdeen
Zeller, Alfred D, Uncl, BA.....Sunnyside
Zener, Galen O, Bus.....White Salmon
Zener, Robert G, Engr.....White Salmon
Ziebarth, Emmett A, LD, BA.....Seattle
Zilliax, George Richardson, Engr..Enumclaw
Zilliman, Lawrence, LA.....Tacoma
Zimmerman, Philo Ralph, Bus.....Seattle
Zimmerman, Ralph C, Bus..Portland, Ore
Zindorf, Geraldine A, LA.....Seattle
Zinthao, Clarence J, Engr.....Seattle
Zintheo, Irma Martha, Sci.....Seattle
Zioncheck, Marion A, LA.....Seattle
Zobrist, Herbert E. Engr.....Acme
Zobrist, Ralph Custer, FA.....Acme
Zumwalt, Homer O, Grad.....Yakima
Zurbrick, John W, Bus.....Seattle
Zurbrick, Margaret Letitia, LA.....Seattle
Zylstra, Earl L Roy, Engr.....Coupeville

Abell, Chas H, UD, LA.....Seattle
Abbott (Mrs) Nina M, Special.....Alaska
Abigail, Nelkirk .....
Acklen, Joseph, LD, LA.....Alaska
Adair, Hugh D.....Washington, DC
Adams, Howard William, UD, BA...Seattle
Adams, Leta Z, LD (adv), LA....Seattle
Adams, Orville D, UD, Educ.....Seattle
Ademino, John, LD, BA.....Cle Elum
Aerni, Lydia F, UD, Educ.....Grandview
Agee, Dora Leola, UD, LA.....Blaine
Aikins, Gladys Roberta, UD, LA....Tuttle
Aitken, Agnes.....Thompson Falls, Mont
Akin, Cecilia Eileen, UD, Educ.....
Akin, Margaret Agnes, Grad..Superior, Wisc
Akin, Ida Emily.....Indiana
Alexander, Florence M, Grad.....Chehalis
Alexander, Floyd M, UD, Pharm....Seattle
Alexander, Frank E, UD, Educ....Lynden
Allan, Helen Q, Grad.....Seattle
Allen, Albert A, UD, BA.....Seattle
Allen, Gordon C, UD, For.....Seattle
Allen, Ruth F, UD, FA....Dawson, Alas
Almeter, Mary A, UD, Educ..Mazeppa, Minn
Altman, Luther Clare, Grad....Bellingham
Alward, Bert E.....Seattle
Anders, Irene, LD (adv), LA.....Seattle
Anderson, Agnes Ruth.....Seattle
Anderson, Ada C, Grad.....Seattle
Anderson, A R, Grad.....Seattle
Anderson, Clara I, UD, Educ.Sandpoint, Ida
Anderson, Emily M, UD, Sci..Portland, Ore
Anderson, Eva E, UD, Sci....Astoria, Ore
Anderson, Mrs L A, Grad....Wenatchee
Anderson, Evelyn M, Grad.....Seattle
Anderson, Isabelle J, Grad.....Oroville
Anderson, Muriel, UD, Educ.....Spokane
Anderson, O R, LD, LA.....Appleton
Anderson, Olga C, Unmat.....Yakima
Andrew, Winona F, Unmat....Denver, Colo
Andrews, Zella E, FA.....Spokane
Andrus, Dora E, UD, Educ.....Seattle
Anglea, T Hayes, LD, BA.....Seattle
Ankeny, Levi, LD, LA.....Walla Walla
Anselm, David R, Grad.....Seattle
Anthes, Cora Leola, UD, FA.....Everett
Anthony, Julia Emma, Unmat, Educ.Seattle
Appleby, Ann, LD, Sci.....Seattle
Arant, Bernadine, UD, LA.....Seattle
Armour, LeRoy L, Unmat...Hubbard, Neb
Arnold, Georgia Vera, UD, Educ..Honolulu
Arnold, John Albert, UD, LA.....Tacoma
Arntzen, Edward J, Grad.....Parkland
Arzaga, F, UD, Eng....San Nicolas, Phili
Ashley, Paul, Law.....Seattle
Asp, Florence, UD, Educ.....Edmonds
Atkins, Carroll, Grad.....Seattle
Atwood, Stanley Freeman, UD, LA..Prosser
Austin Francis M, UD, Educ.....Seattle
Austin, Geo R, Grad.....Seattle
Axtelle, George Edward, Grad....Honokaci

Baarson, Oscar A, Unc, LA....Burley, Ida
Bach, Othelia A, UD, LA.Cut Bank, Mont
Bachman, Paul, Grad.....Seattle
Backland, Ellen, UD, LA.....Seattle
Baerresen, Bertha I, Uncl, LA.Denver, Colo
Baerresen, Edna E, Uncl, LA.Denver, Colo
Bailey, Dorothy A, UD, Sci....Walla Walla
Bailey, Dorothy B, UD, LA.....Seattle
Bailey, Frank Holmes, Grad.....Seattle
Bailor, Wallace Floyd, UD, Educ..Onalaska
Baird, Frank Pierce, UD, Educ....Boise
Baisden, Leo B, Grad.....Everett
Baisinger, Heger M, UD, LA.....McKenna
Baker, Glaydes Frances.....Ellensburg
Baker, Martin H, UD, Educ.....Bothell
Baker, Willard O, Grad.New, Plymouth, Ida
Ballaine, Wesley C, UD, Sci....Bellingham
Balzer, Walter W, UD, BA.....Spokane
Bancroft, C A, UD, Sci.....Prosser
Banker, Helen D, Grad.....Winthrop
Barbee, Richard E, Spec BA.....Seattle
Bardarson, Otto, Grad.....Blaine
Bargquist, Bertha, UD, FA.....Bothell
Barker, Gertrude B, UD, Educ..Burlington
Barker, Ivyl C ,Grad.....Pueblo
Barker, L T, UD, Ed, (LD Adv).Burlington
Barncard, Florence M, UD, Educ....Duluth
Barnett, Guy D, Grad.....Lewiston, Ida
Barnhill, Frances L, LD, LA.....Yakima
Barnwell, Cecile K, UD, Educ..Albia, Iowa
Barr, Carrie, Uncl, Educ....St Cloud, Minn
Barrett, M A, Unmat, Ed.San Francisco, Cal
Barron, Dale H, UD, Pharm.....Seattle
Barry, Georgie C, Grad.....Bellingham
Barry, Harry W, Uncl, LA.....Buhl, Ida
Barry, Victor H, UD, Educ.....Pasco
Bartlett, Henry Charles, LD, LA...Seattle
Barton, Mary E, Unmat.....Cheney
Bashor, Thurston, LD, LA.....Seattle
Bassett, Florence, UD, Educ....Harrington
Bassett, Florine, UD, Educ.....Seattle
Bardorf, Boryl, UD, Educ.....Bellingham
Bates, Edwin, UD, BA.....St Louis, Mo
Bates, Eva M, UD, Educ.....Spokane
Baumgartner, Grace, Grad.....Seattle
Bautista, Marcelino, UD, Educ.Luna, Phili
Baxter, Kirk S, Grad.....Seattle
Bayliss, Lawrence Alfred, LD, Engr.Seattle
Beager, Irma, Grad.....Seattle
Bean, Minnie D, LD, LA.....Tacoma
Beckenstrater, Mabel, Grad..Seymour, Wisc
Beckley, Lily, UD, Educ.....Klein, Mont
Beers, Norman Alwyn, UD, BA.....Seattle
Behrens, Eunice C, LD, LA.....Seattle
Bell, Ethel G, UD, Educ.....Seattle
Bell, Laura Ellen, Unmat, Grad.Kansas City
Bell, Otis E, LD, LA.....Idaho Falls
Bellosillo, Leon A, LD, LA.....Ilo-ilo
Benjamin, Milton J, Unmat, Educ..Granger
Bennett, Kenneth O, Grad.....Oldham
Bennett, Lois E, LD, FA.....Seattle
Bennett, Richard F, Grad.....Kirkland
Bennette, Alice L, UD, LA.....Tacoma
Benson, E Pearl, Unmat.....Seattle
Benson, Richard, Grad.....Seattle
Bentley, Nora M, LD, LA.....Tacoma
Berg, Anna M, UD, LA.....Doyon, ND
Berger, L Voshelle, LD, LA..Oil Hill, Kans
Berg, Arel K, Spec, BA....Molde, Norway
Bergh, Violet Wendell, UD, Educ...Seattle
Bergman, Eunice M, UD, Sci.....Seattle
Berry, Mrs Helen, Unmat.....Dockton
Bessesen, B B, Grad.....Seattle
Best, Mary Elmyra, UD, Sci.....Yakima
Bethel, Virginia R, UD, LA.....Aberdeen
Betz, Gerard, Uncl, LA.....Allentown
Bibee, Georgia C, UD, Sci.....Science
Biddison, Clare, Unmat, FA....Tulsa, Okla
Bigford, Grace E, UD, LA.....Yakima
Bigelow, Dwight E, UD, BA.....Seattle
Biggs, Catherine, Grad.....Seattle
Billings, Edna B, Provis, Grad....Spokane
Bird, Bernice, Unmat.....Murray, Utah
Bird, Emma M, Uncl, LA.....Seattle
Bishop, Glen Otto, LD, LA.....Seattle
Bishop, Myra L. Grad..Council Bluffs, Iowa
Bjorkquist, E J, Grad.....Spokane
Bjorkquist, Mrs Helen K, Uncl, LA.Spokane
Black, Alberta Frances, UD, Sci..Tacoma
Black, Margaret G, Grad.....Seattle
Black, William P, Grad.....Seattle
Blackburn, Richard L, Grad.....Ephrata

Blackmore, Ida, Unmat.....Omaha, Neb
Blaine, Louisa H, UD LA.....Seattle
Blair, Wm John, Uncl, Pharm.....Seattle
Blanchard, Mary LD, LA.....Seattle
Blanding, William, Uncl, Engr.....Seattle
Blanks, Evangeline, LD, FA.....Everett
Blaxill, Verna H, Uncl, LA.....Seattle
Blevins, Emery M, Grad.....Ritzville
Bloxom, John Megrath, UD, LA....Seattle
Blue, J S, Grad.....Hastings, Neb
Bockmier, Mrs Dorothy F, Grad....Seattle
Bohan, Richard, UD, BA.....Bremerton
Bohamnan, L H, Spec, BA.Farmington, Ill
Bohart, Ruby M, Grad.....Bozeman, Mont
Bolderston, Constance B, UD, LA..Seattle
Bolton, Edwin L, Grad.....Seattle
Bomar, Richard J G, Uncl, Sci...Tacoma
Bonnefond, Raymond E, UD, LA....Seattle
Bonner, Gertrude G, Grad.....Seattle
Bonner, Pearl P, Grad.....Seattle
Bonney, Zaidee E, Unmat, Sci.....Tacoma
Booker, Fay, UD, Educ.....Seattle
Booman, Albert, Grad.....Lynden
Boozer, Marjorie C, UD, FA.....Seattle
Borrow, Martha, UD, LA.....Seattle
Borzell, John, Spec, BA...Katoomba, Aust
Bothwell, Belle, Grad.....Spokane
Bottorff, Myrtle, LD, LA.....Freewater Or
Boudin, Lillian M, Spec, FA.....Tacoma
Bovee, Edna Florence, Unmat.....Spokane
Bowen, Alice, UD, Educ.....Tacoma
Bowman, Conrad Henry, Grad.....Lynden
Bowman, Donald, UD, For.....Seattle
Bowman, Ward S, Grad.....Arlington
Boyd, Helen, LD, LA.....Seattle
Boyd, Mary Ann, Unmat.....Shefield
Boyd, Patricia, LD, FA.....Seattle
Bradbury, Hazel, UD, Educ.....Wenatchee
Bradford, Julian W, Spec, BA.....Seattle
Bradley, Charles A, LD, LA..Manchester
Bragdon, Elizabeth W, UD, Educ....Seattle
Brainard, Bessie L, LD, LA....Bozeman
Brainerd, Nellie E, Unmat.....Seattle
Brandon, Eugene, Grad...Farmer City, Ill
Herman Brandriff, UD. Sci.....Edmonds
Branshaw, Guy W, UD, Educ....Hoquiam
Bravender, William F, LD, LA....Seattle
Bray, J Arnold, UD, BA.....Sumner
Brayton, Annie C, Unmat.....Seattle
Brayton, Fannie Elizabeth, Grad....Seattle
Brazel, Charles C, Spec, BA.....Seattle
Brazier, Donald, UD, BA.....Seattle
Breckner, Elmer L, Grad.....Olympia
Breen, Margaret J, UD, Educ.....England
Brennan, Robert A, UD, BA.....Seattle
Brethorst, Lydia, LD, LA.....Seattle
Brethorst, Louise, LA, LA.....Seattle
Breuer, Leo D, UD, Educ....Bellingham
Brewer, Vincent R, LD. BA.....Seattle
Bridgman, Alfred W, UD, BA.....Vashon
Brier, Howard M, LD, BA.....Everett
Briggs, Dorothy E, UD, Sci....Opportunity
Briggs, E Gertrude, Uncl, LA....Elkhart
Brinck, Stephen M, Grad.....Seattle
Britt, Maurice E, Spec, BA....Enfiel, NC
Britt, Westburt C, LD, BA.....Seattle
Brook, Mrs Alice Lee, UD, Educ..Seattle
Brooks, Bernice N, UD, LA.....Wapato
Brotnor, Marguerite, Grad.....Bellingham
Brown, Earl T, Grad.....Salem, Ore..
Brown, Edith, Olivia, Grad..Friday Harbor
Brown, J Elmer, Grad.....Vancouver, BC
Brown, James F, Spec, BA.....Seattle
Brown, Leland P, Grad.....Olympia
Brown, Lillian R, Uncl, LA.....Spokane
Brown, Lois E, Grad.....Spokane
Brown, Mary Cecelia, Grad.....Lewiston
Brown, Nellie N, UD, Educ.....Spokane
Brown, Ralph A, LD, Engr....Trout Lake
Brown, R W, LD. LA.....Seattle
Brown, Stephen D, Spec, Law..Dallas, Tex
Brown, Vera, UD, FA.....Tacoma
Bruff, Ettie J, UD, Educ.....Yakima
Bryan, Collis C, UD, Eng.....Seattle
Bryant, Charles M, Spec, Eng....Yakima
Buckman, Carl J, Uncl, LA.St Cloud, Minn
Budde, Charles A, UD, Educ....Skykomish
Bulfinch, D, LD (adv) Educ..Walla Walla
Bunoan, Pedro B, LD, Sci.....Philippines
Burdick, Muriel, LD, FA.....Everett
Burmeister, Gladys, UD, FA.....Seattle
Burnett, Charles Hugh, Grad....Hollywood
Burns, Anna E, Grad.....Seattle
Burns, Jessie, UD, LA.....Seattle
Burns, Omar A. Grad.....Seattle
Burroughs, Alfred P, LD, Mines.....
Bush, Dorothy L, UD, FA..Portland, Ore
Bush, Elizabeth Pauline, Grad.....Seattle
Bushell, Lydia G, UD, Sci.....Seattle
Bushwell, Nina M, Unmat.....Flint, Mich
Buss, Bessie, Grad.....Minn
Butler, Cora A, Unmat.....Spokane
Butler, George T, LD, LA.Mason City, Iowa
Butler, J Rea, Grad.....Burton
Butsch, Russell L C, Grad.....Ritzville
Byers, Dorothy O, LD (adv) Sci....Seattle

Cady, Jane Gray, LD, LA....Wenatchee
Cahill. Blanche M, Unmat, LA.....Seattle
Cahoon, Lyle, Uncl, LA....Murray, Utah
Cain, Estill V, UD, Educ.....Monroe
Calder, Mary E, UD, LA.....Seattle
Calhoun, Chas E, UD, LA.....Seattle
Calhoun, Vira, UD, Educ....Port Townsend
Calkins, Richard I, UD, BA..Shawano, Wis
Cameron, Cecilia E, LD, LA.....Seattle
Cameron, Daisy Catherine, Grad..Dundee, Ill
Cameron, Donald P, LD, BA..Victoria, BC
Cameron, Erdine Stafford, LD, FA..Seattle
Cameron, Gladys, UD, LA.....Bellingham
Cameron, Hazel C, Grad....Columbus, Ohio
Campbell, Cleo, Unmat.....Kettle Falls
Campbell, Edna B, Unmat.....Seattle
Campbell, Ernest W, Grad.....Seattle
Campbell, Evelyn, Unmat..Central City, SD
Campbell, Grace, Grad, Unmat.... Spokane
Campbell, Helen Day, UD, FA..Omaha, Neb
Campbell, Marjorie M, UD, Sci.Portland, Ore
Campbell, Oliver, Grad.....Spokane
Canney, Frank R, UD, Eng.....Seattle
Capen, Donald, UD, BA.....Yelm
Caples, D Elwood, UD, Law....Vancouver
Carbajosa, Vicente C, Grad.....Calatrava
Carey, Louis George, UD, LA.....Seattle
Carey, Vincent, Grad.....Seattle
Carey, Harris Milam.....Poulsbo
Carlisle, Verona McRae, LD, BA..Vancouver
Carlson, Alice, Grad.....Litchfield
Carlson, Florence A, UD, Sci.....Seattle
Carlson, Hulda M. Grad.....Gig Habor
Carlson, Jennie, Unmat.....Basin, Mont
Carlson, E Marion, Unmat....Los Angeles
Carlson, Nell, UD, Educ.....Snohomish
Carlson, Wilma A, UD, BA.Fairbanks, Alas
Carrick, Ferne G, Unmat.....Spokane
Carroll, Joseph D, Grad.....Hartline
Carroll, M Jack, UD, BA.....Seattle
Carson, Benjamin H, Spec, BA.Portland, Ore
Carssow, Elsie L, UD, Sci.....Odessa
Carstens, Clarence Thomas, LD, BA.Seattle
Carstens, Lillian. UD, FA.....Seattle
Carter, Chas J. UD, BA.....Seattle
Cartwright, Laura Dorothy, Grad....Seattle
Cartwright, Vance, UD, Eng.....Seattle
Carver, Dwight Leslie, Uncl, BA..Florence
Casey, Helen Lucile, Uncl, FA.....Seattle
Casey, Ralph D. Grad.....Seattle
Cass, Bessie, Grad.....Seattle
Caughlin, Rose M, LD, LA.....Seattle

Cavanaugh, Edith F, UD, Educ.....Seattle
Cavanaugh, Esmer D, UD, Educ....Seattle
Cave, Floyd A, Grad.....Seattle
Cave, Roy C, Grad.....Seattle
Chaffee, Dorotha Lucile, Uncl, LA.....
Chambers, J Mae, LD, LA.....Roy
Chandler, Bernice, LD, FA.....Seattle
Chandler, Elsie, Grad.....Seattle
Chang, P Y, UD, BA.....Tientsin
Chan-Yam, Victor, LA.....Sun Woy
Chappell, Claribel C, Uncl, LA....Seattle
Charlton, Harriet, UD, FA.....Chehalis
Chase, Frances L, UD, Educ.....Seattle
Chellquist, F, UD, Educ, Unmat.Great Falls
Chen, David H, Uncl, LA..Nanking, China
Chen, D B, Uncl, Eng.....Dianglok
Chesley, Dorothy Helen, Grad.....Seattle
Cheung, H S.....Canton
Cluas, Samuel T, UD, Pharm.....
Childs, Ruth, UD, Educ.....Yakima
Christensen, Clara M, Grad.....Parkland
Christopher, Leona, UD, Unmat, Sci..Cheney
Chumlea, Leland H, UD, Educ...Bellingham
Church, Ruth M, UD, Educ.....LaConner
Churchill, Eunice, UD, FA.....Ellensburg
Chute, Ernest E, Grad.....Peshastin
Chute, Esther H, UD, Educ....Peshastin
Clancy, Margaret, UD, FA.....Seattle
Clark, Celia Lucile, UD, LA....Mt Vernon
Clark, Elizabeth R, Grad.....Ellensburg
Clark, Frank Jones, Grad.....Centralia
Clark, H Halbert, LD, Sci.....Seattle
Clark, Herald R, Grad.....Prono, Utah
Clausen, Emma C, Grad....The Dalles, Ore
Clay, Margaret J, Unmat....Victoria, BC
Cleland, Faith, Grad.....Seattle
Clemmer, Ruth, UD, Sci.....Yakima
Cleveland, Carl M, UD, LA.....Tacoma
Clevenger, Ruie, Unmat..Miles City, Mont
Cleverdon, Helen F, Grad.....Centralia
Cline, Denzel C, UD, LA....Isabel, Kansas
Cline, Georgia, Unmat.....Omaha, Neb
Cloughley, Walter M, UD, BA.....Yakima
Cochrane, E L, LD, Law.....Kent
Cody, Mary E, Spec, LA.....Butte
Coe, Luella E, Grad.....Seattle
Cohen, Philip Gordon, Grad.....Tacoma
Coke, Martha Evelyne, UD, Educ...Tacoma
Cole, Cleo Gennette, Grad.....Seattle
Cole, France M, UD, LA.....Everett
Cole, Sylpha J, UD, LA.....Bellingham
Coleman, Raymond W, Grad.....Douglas
Coleman, J Sidney, Uncl, LA.Helena, Mont
Coleman, Mrs Viola H, Unmat.Helena, Mont
Collier, Olive Irene, LD, LA.....Seattle
Collins, Cyril A, UD, Eng.....Seattle
Collins, Norman, UD, Journ.....Spokane
Collins, Opal H, Grad.....Seattle
Calvin, Alice Campbell, Grad.....Spokane
Colwell, Miller.....
Conklin, Russel, UD, BA.....Spokane
Conlan, Cecile M, LD, FA.....Spokane
Conner, Cora A, Spec, Educ.....Seattle
Connolly, Mary, Grad.....
Connors, Caroline, Grad.....Seattle
Conway, Zelma, UD, LA.....Toppenish
Cook, Faustine F, Grad....Evansville, Ind
Cook, Jennie N, Grad, LA.....Seattle
Cook, Lois F, Grad.....Snohomish
Cooper, Edwin V, UD, Sci.....Seattle
Cooperman, M H, UD, Law..Brandon, Can
Cope, Harvey F, Grad.....Medford, Ore
Copley, Blanche C, UD, LA.....Manette
Copps, Irene E, Uncl, Educ.....Everett
Corbally, John Edward, Grad.....Seattle
Corlett, Thirza, Grad.....Seattle
Corson, Kenneth P, LD, For.....Seattle
Cory, Merle R, LD (adv) LA.....Tacoma
Court, Thelma Marie, UD, LA....Carnation
Coventry, Edwin James, UD, LA..Concrete
Cowell, Ray T, Grad.....Mt Vernon
Cox, Julia V, Grad.....Seattle
Craig, Dora B, UD, LA.....Seattle
Crandall, Marguerite E, LD, LA....Seattle
Crane, Marion A, UD, LA.....Seattle
Crank, Mary Lucille, Grad..Springfield, Mo
Crankshaw, Claude P, UD, FA....Monroe
Crawford, Hazel, LD, LA.....Opportunity
Cronan, May Elizabeth, LD, LA..Spokane
Crosno, May Frances, Grad.....Seattle
Crowder, Harriet, Grad.....Seattle
Croy, Donald C, UD, Educ.....Puyallup
Crump, James I, Unmat.....Auburn
Cruzen, Edward A, Grad.....Seattle
Cruzen, Eugenia, Prov, UD, Sci....Seattle
Cullen, Ray R, Grad.....Seattle
Cullinan, Nicholas C, UD, LA....Seattle
Culver, Lela A, Unmat.....Seattle
Cummings, Blanche M, UD, LA....Tacoma
Cummings, Kathryn, UD, LA.....Tacoma
Cummins, Lula Elizabeth, Grad..Bellingham
Curtin, Hugh M, Spec, BA.....Seattle
Curtis, Muriel Hover (Mrs), LD, FA.Seattle

Dabney, Ellen P, Unmat.....Seattle
Dahl, Florence, UD, Educ.....Seattle
Dahlstrom, Esther, Uncl, LA.....Seattle
Dobson, Mary L, Uncl, LA.Marquette, Mich
Dalgity, Jean, UD, Sci.....Seattle
Damerell, V Richard, UD, Sci..Earlington
Dammann, Marjorie L, Grad....Parkland
Daniel, Reggie, Uncl, FA..Greencastle, Ind
Daniels, Mary, UD, Educ.....Seattle
Dann, Violet L, LD, LA.....Seattle
Danner, Earl Y, UD, Educ.....Seattle
Darling, Benjamin A, Unmat, LA..Everett
Dartt, Pearl V, Unmat.....Seattle
Daubenspeck, Marion H, UD, LA.....
Daubner, Edythe, Unmat.....Gooding
Daut, Audrey, LD, LA.....Seattle
Davidson, L B, LD, Sci.Cleveland, Ohio
Davidson, E, Mary, Unmat.....Spokane
Davies, Anne, UD, LA.....Carbonado
Davies, Violet, Grad.....Tacoma
Davis, Chauncey D, UD, Educ....Hamilton
Davis, Florence, UD, LA.....Seattle
Davies, Enlo, UD, LA.....Seattle
Davis, Frank L, LD, BA.....Seattle
Davis, Herbert F, UD, LA.....Seattle
Davis, Laura (Mrs), Unmat.....Seattle
Davis, Mercie, Irene, UD, FA.....Donald
Davis, Mural, Uncl, BA.....Tacoma
Davis, Nita C, LD, Sci.....Kennewick
Davis, Paul A, UD, Educ.....Sequim
Dawson, Daniel O, Spec, BA.....Seattle
Dawson, Terence T, LD, Sci.....Seattle
Day, Chester G, LD, LA.....Touchet
Deane, Mamie, UD, LA.....Toledo
Deebach, Zilda K, Uncl, LA.....
DeKray, Raymond W, UD, BA.....Seattle
Dellinger, Mary G, LD, LA.....Everett
DeShazo, Melvin Gardner, UD, LA..Seattle
Devine, Paul F, Unmat.....Seattle
Dewey, Marie, UD (adv) LA.....Seattle
De Witz, Merceda, UD, Educ.....Spokane
DeYarmon, Ada L, Unmat..Missoula, Mont
Dick, Gordon W, LD, LA.....Seattle
Dickson, Helen M, Unmat.....Seattle
Dillon, Ruby L, Grad.....Weiser, Ida
Dimmitt, Alva W, LD, LA.....Renton
Dimmitt, Lorris M, UD, LA....Eatonville
Dittmer, Clarence C, UD, Educ....Luverne
Dixon, Guy, Unmat, Grad.....Seattle
Dixon, Lillian C, UD, Educ.....Seattle
Doane, Lucile, UD, LA.....Sparta, Wis
Doan, Violet L, LD, LA.....Seattle
Dobbs, Mary L, Unmat.....Seattle
Dobson, Mary L, Uncl, LA.....

Dodge, Florence P, UD (Prov) LA..Seattle
Doheny, Geraldine, UD, LA.....Seattle
Doheny, Harriet J, Grad.....Seattle
Donley, Eleanor, UD, LA.....Seattle
Dorsey, Mabel L, Grad.....Davis, Cal
Doty, Wayne L, UD, Joun.....Seattle
Dougherty, Ruth, Uncl, LA.....Seattle
Douglas, Mrs Helen H, Unmat, Grad.Seattle
Douglas, John F, UD, BA.....Seattle
Douglas, Effie Pearl, Grad.....Wilkeson
Downes, Marjory, UD, LA.....Seattle
Doyle, Agnes Margaret, LD, Sci.....Seattle
Doyle, Edna M, Grad.....Seattle
Driscoll, A M, Unmat, LA..Calumet, Mich
Driscoll, Anna M, LD, Sci.Kalispell, Mont
Drus, Peter Paul, UD, LA....Coeur d'Alene
Dryden, M Dale, LD, BA.....Seattle
DuBois, Ella L, UD, Educ.....Seattle
DuGay, Georgina S (Mrs) Unmat..Auburn
Duncanson, Geneva, UD, Sci..Byron, Minn
Durst, Ethel H, Unmat, Grad.Los Altos, Cal
Dwyer, Katherine M, Unmat, Sci..Spokane

Eades, Beaulah, UD, Ed.....Mesa
Eakin, Hattie, Grad.....Bellingham
Earnest, Helen, UD, Ed....Fullerton, ND
Earnest, Robert Roy, UD, Educ....Bothell
Eccles, Grace, Grad.....Nisqually
Eccles, Ruth, LD, LA.....Seattle
Eckstein, Howard, UD, BA.....Seattle
Edwards, Archie C, UD, BA.....Seattle
Edwards, George W, Grad.....Seattle
Edwards, Gertrude M, Unmat.Oshkosh, Wis
Effinger, Vivian, Prov, Grad.....Seattle
Egbers, Mark W, Unmat..Coeur d'Alene, Ida
Ehret, Arthur W, Grad.....Selah
Eidal, E O, UD, Educ.....Olympia
Eidal, Clarence Otto, UD, Educ..Ellensburg
Eide, Agnes, UD, LA.....Seattle
Einarson, Nanna, LD, LA.....Seattle
Elder, Raymond, UD, Educ.....Pasco
Eller, Arleta, LD, Educ.....Seattle
Elliott, Edith A, UD, LA.....Seattle
Elliott, Frederick G.....
Elliott, Minnie P, Uncl, LA..Redstone, Mont
Ellis, Mrs G B, UD, Educ.....Anacortes
Elstrom, Alma M, Grad.....Ashland, Wisc
Emerick, Jessie Dee, Unmat, FA....Seattle
Enger, Olive, Grad.....Tacoma
Engle, N H, LD, LA.....Seattle
Engler, Dora, Grad.....Pasco
English, Elsie, Grad.....Seattle
Englund, Adoll B, UD, BA....Enumclaw
Ensley, Talitha, Grad.....Seattle
Erickson, Sylvia, Grad.....Astoria, Ore
Ernest, James E, Unmat....Moinsville, Pa
Erp, Anton Peter, Grad.....Rochester
Erspamer, Frank A, Grad.....Tacoma
Erspamer, Mrs Gertrude, Uncl, FA..Tacoma
Estep, Amy J, UD, Educ.....Seattle
Estepa, Sotero, LD, LA.....Philippines
Esterman, Louis E, Unmat.....Seattle
Estes, John Frank, Grad.....Bow
Ettinger, Dorothy, Grad.....Seattle
Evans, Earl H, UD, Educ.....Everett
Evans, Frank O, Grad.....Prosser
Evans, Lacey H, UD, Sci....Vancouv,er BC
Everett, Elizabeth, Unmat.....Spokane
Ewing, Jessie, UD Educ.....Spokane
Ewing Mrs Lillian, Uncl, LA....Spokane
Eyster, Jane C, Uncl, BA.....Spokane

Fahey, A Amy, UD, LA.....Seattle
Fahrenwald, Alice, Unmat.....Seattle
Fallor, John William, Uncl, LA.Kennewick
Falconer, Thomas T, UD, BA.....Everett
Fallon, Vern E, LD, LA....Butte, Mont
Farner, Edna E, Unmat.....Seattle
Farrar, Myrtle I, UD, Educ..Langford, SD
Faucett, Philip. Uncl, Eng..Clatskanie, Ore
Faucett, Robert L, Grad...Clatskanie, Ore
Fawley, Marceline, Unmat....Oak Park, Ill
Fee, Marian P, Grad.....Duluth, Minn
Fenton, Elizabeth, LD, LA.....Seattle
Felts, Georgene, Grad.....Spokane
Ferguson, E Lee, Unmat.....Moror, Ark
Ferris, Mytrle M, Uncl, LA..Portland, Ore
Ferry, Edward P, UD, LA.....Seattle
Findlater, John C, LD, Sci....Eugene, Ore
Finke, Mabel, UD, LA.....Seattle
Finn, Norma UD Sci.....Seattle
Finstrom, Hilda, Grad.....Issaquah
Fischer, Adelaide, Grad.....Seattle
Fisher, Crystal J, Uncl, LA..Kalispell, Mont
Fisher, Dorsey G, LD, LA.....Seattle
Fitzharris, E J, UD (prov) LA....Spokane
Flanigan, Margaret E, LD, BA.....Seattle
Flanigan, Fred, LD, BA.....Seattle
Flath, Marie, Grad.....Stanley, ND
Fleming, Bessie J, Grad.....Seattle
Fletcher, Rose J, UD, LA.....Tacoma
Flett John B, Unmat.....Seattle
Flynn, Mary, Unmat.....Nampa, Ida
Ford, Wm Pendleton, LD, LA.....Seattle
Foote, Luanda, LD, LA.....Seattle
Forbes, Edith Grad.....Portland, Ore
Ford, Constance Pauline, Grad..Walla Walla
Forrest, Veda, UD, LA.....Bellingham
Forrestal, Margaret, Uncl, LA.St. Louis Mo
Forsberg, Ruth Ellen, Grad..Brooklyn, NY
Forster, F E, UD, BA.....Seattle
Foss, Carl L, Grad (prov).....Seattle
Foss, Mary Loretta, UD, FA.....Seattle
Foster, Charles J, Grad.....Seattle
Foster, Philip R, UD, Educ.....Corviche
Foster, Robert F, LD, Sci.....Colfax
Fowler, Edna Elizabeth, Gra.....Seattle
Fowler, Elizabeth, UD, Sci.....Seattle
Fowler, Stella M, Grad.....Bellingham
Fox, Albert, Uncl, LA.....Seattle
Fox, Alta, UD, LA.....Devils Lake, ND
Framo, Angel D, UD, LA..San Nicolos, PI
Frank May C, Unmat.....Spokane
Freeman, George, UD, Sci.....Spokane
Freeman, George Walker, Grad....Spokane
Freeman, Jennie M, UD, Educ....Washtucna
Freeman, Morton S, Unc, LA..Lincoln, Neb
French, Eilene, Grad.....Seattle
French, Mabelle, Grad.....Seattle
French, Olive Bell, Grad.....Spokane
French, Ray, LD, LA.....Okanogan
Friese, Ernestine, UD, LA.....Snohomish
Fryer, Valliere D, Grad.....Tacoma
Fuller, Dana L, Uncl, LA....San Francisco
Fuller, Emilie S, Grad.....Seattle
Fuller, Stella, UD, Sci.....Satsop
Fuller, William D, Gra.....Bellevue
Funakush, Sakaye, UD, LA.....
Furnas, Lucy M, Unmat, LA.....Mercer Is
Fushimi, S, UD, BA.....Kobe, Japan

Gagan, Hannah D, LD, LA....Denver, Colo
Gaidsick, Harold G, UD, BA.....Seattle
Gallagher, Eileen, LD, LA.....Seattle
Gallagher (Mrs) Miriam Y, Grad....Seattle
Gallup, Willis D, Grad.....Bellingham
Galvez, Pedro R, UD, Educ...San Fernando
Gamble, Achsah B, Unmat, LA..Tulsa ,Okla
Ganders, Mary L, UD, LA....Port Angeles
Gannon, Edward, UD, LA.....Bellingham
Ganz, Anna, Uncl, BA.....Tacoma
Garber, Hazel, UD, Sci.....Nampa, Ida
Garcia, Maximo P, Uncl, Mines..S Nicolus
Gardiner, E Irene, Unmat....Calgary, Can
Garner, Helen, LD (adv) LA.....Seattle
Gast, Mildred Catherine, UD, Educ..Tacoma
Gates, Edith, UD, LA.....Seattle

Gaton, Dorothy, UD, Educ.....Seattle
Gaupp, Pauline, UD, Educ.....Tacoma
Gay, Leroy E, Unmat, BA.....Seattle
Gadmin, L, LD, Pharm.....Seattle
Gehres, Mildred F, UD, Educ.....Connell
Geiser, Rudolph, Unmat.....Seattle
Gellermann, (Mrs) Mildred P, Grad..Seattle
Gellermann, William, Grad.....Oroville
George, Harry H, Unmat, Educ....Pullman
Gernney, N Louise, Grad.....Seattle
Gerrish, Olive May, UD, Educ.....Seattle
Gesner, Hattie P. Grad.....Kiowa, Kansas
Gibson, Celia E, UD, LA.....Everett
Gibson, Clara A, Uncl, LA.....Everett
Gilbert, Cyrus L, (Prov) Grad.....Seattle
Gilbert, Harold S, LD, BA.....Seattle
Gilbert, Mabel J, Uncl. LA.....Lead, SD
Gilbertson, Naomi, Unmat, LA.Portland, Ore
Gillespie, James C, UD, Educ...Leland, Ida
Gillett, Erma M, LD (adv, Sci....Cle Elum
Gingrich, Esther M, LD (adv) FA..Spokane
Glaser, Harry G, Grad.....Seattle
Gleason, Joseph A, LD, BA.....Yakima
Gleun, M Lois, UD, FA.....Seattle
Gnagy, Muriel Jasper, Unmat.....Tacoma
Gobie, Grace E, UD, LA.....Sunnyside
Godefroy, William, UD, Sci.....Spokane
Goehring, Viola, LD, BA.....Seattle
Godsey, Bes H (Mrs) LD, LA.....Seattle
Gogan, Hannah D
Golman, Jack
Gonderman, May, Spec, LA.....Spokane
Good, Mary E, Grad.....Seattle
Goodman, G M, Unmat, LA..Alexandria,Neb
Goodrich, H G, UD, Educ..Ness City, Kan
Goon, Lillian, UD, Educ.....Seattle
Gorman, Elzora G, Uncl, LA.....Spokane
Gorow, George F, Unmat, Educ..Boise, Ida
Gorrell, W G, LD, LA.....Portland, Ore
Gould, Nellie B, Unmat.....Seattle
Gowell, Prudentia B, UD, LA.....
Grafft, George H, UD, LA.....Everett
Grafton, Marlea, UD, LA.....Spokane
Graham, Charlote, Grad.....
Graham, Maude E. Unmat..Columbus, Ohio
Grahn, Clarence, LD, BA.....Seattle
Grant, Bernadine, UD, Educ.....Seattle
Grant, Ruth A, UD, BA.....Seattle
Graves, Francis D, UD, BA....Bellingham
Graves, Lucile, Grad.....Seattle
Gray, Smanual A. LD (adv) LA....Seattle
Gray, Howard B, Grad.....Seattle
Graybell, Anita J, UD, LA.....Tacoma
Greason, F LD (adv) Sci.....Portland, Ore
Greathouse, Nina L, LD, LA.....Spokane
Grebe, Edna J, UD, FA.....Spokane
Grebe, Enid A, Uncl, FA.....Spokane
Grer Alfred J, Spec, BA.....Seattle
Gregory, W C, Grad.....Battle Ground
Greiner, Mary, LD (adv) LA.San Diego, Cal
Greiner, Ruth H, Grad.....Seattle
Griep, Kenneth, Uncl, BA....Fruitland, Ida
Griffin, (Mrs) Leah B. Grad.....Seattle
Griffith, Rena, UD, Educ.....Spokane
Griffith, Ruth Armstrong, Grad.....Seattle
Grimm, William H, UD, Law.....Centralia
Grindrod, Ione, Grad.....Seattle
Gross, K J, UD, Educ..Benton Hbr, Mich
Grossen, Tilda F, Grad.....Hillsboro, Ore
Grove, Clare (Mrs) LD, LA.....Seattle
Grove, Leon C, UD, Educ.....Seattle
Grove, Maude T, Grad.....Seattle
Groves, Ferol, Unmat.....Flaxton, ND
Guenther, Amy, UD, Educ.....Kensal, ND
Guilbaut, C M, Unmat.....Missoula, Mont
Guild, Gertrude Mae, LD, FA.....Seattle
Guilford, Madeline, UD, LA.....Westport
Gulliver, Edith A, UD, Sci....Port Orchard
Gundlach, Ralph, Grad.....Walkee, Ida

Gunn, Anabel, Unmat.....Gig Harbor
Gunn, Louise Grace, Unmat..Chemawa, Ore
Gustafson, Ellen, Unmat.....Seattle
Guthrie, Elton F, LD, LA.....Seattle

Haack, W Margaret, LD, BA.....Seattle
Haase, Albert Paul, LD, BA.....Clarkston
Habicht, Helen M, LD, LA.....Seattle
Haeske, Carroll M, UD, Educ....Bellingham
Hagar, Irene, LD. LA.....Olalla
Haggett, Dorothy, UD, LA.....Seattle
Haglund, Ivar, LD, BA.....Seattle
Haimo, Myron B, UD, BA.....Seattle
Haley, Douglas A, LD BA.....Seattle
Halbert, Clara H, LD. Sci.....Seattle
Haley, Robert M, Grad.....Seattle
Hall, Dessie A, Grad.....Lowden
Hall, Edward B, UD, BA.....Seattle
Hall, Helen M, Uncl, FA.....Seattle
Hall, Pearl A, Grad (Prov)..Caldwell, Ida
Hall, Ralph D, UD, BA.....Seattle
Hall, Ruth, Grad.....Caldwell, Id.
Hallan, Claude, Grad.....Monroe
Haltgreen, Elart
Halberson, Kendall
Halm, Ivan H, Unmat.....Tacoma
Halverstadt, Dallas, LD, LA.....Seattle
Hamada, Fred I, UD, BA.....Seattle
Hambert, Nona C, UD, Educ.....Spokane
Hambleton, Edith, LD, LA.....Seattle
Hamilton, Dorothy, UD, BA.....Seattle
Hamilton, Juanita, Grad.....Seattle
Hammack, James R, LD, Law..Mt Vernon
Hammarberg, Agnes E, Grad.....Seattle
Hammer, Laura, Unmat.....Portland, Ore
Hammond, Allen O, Grad.....Seattle
Hammond, Lester C, UD, Sci.....Everett
Hampson, Fred E, UD, LA.....Tacoma
Hanawalt, Paul B, Grad.....Puyallup
Hand, Hope, UD, LA.....Seattle
Hanna, Wm Lloyd, UD, Educ.....Colville
Hansen, Alvida L, UD, Educ.....Tacoma
Hansen, Herbert, UD, Educ.....Bellingham
Hansen, Herman, Grad.....Spokane
Hapner, Leora, LD, LA.....Bozeman, Mont
Hordan, Hazel (Mrs) Uncl, LA....Tacoma
Harding, Gladys L, Grad.....Tacoma
Hardinger, Annete, UD, Pharm.....Seattle
Hardwick, Clifford E, LD (adv) Sci.Everett
Harkins, Edith, Unmat.....Tonica, Ill
Harrington, Daniel F, Unmat..Butte, Mont
Harper, Clarence P, UD, BA
Hart, Emma C, Grad.....Seattle
Hartley, Florence, LD, Sci.....Seattle
Hartman, Harry Colvin, Uncl, Educ..Seattle
Hartman, G Howard, UD, Educ.....Selah
Hartman, Lois K, Grad.....Tacoma
Hartt, Bertha M, UD, Educ...Port Angeles
Haskin, Emma H, UD, LA.....Olympia
Hassenmiller, Kenneth L, Grad.....Seattle
Hatley, Charles B.....Everett
Hatlestad, Clara, UD, Educ.Cottonwood, Min
Hatley, Porter, Unmat.....Lynden
Hatton, Ruth G, UD, LA.....Seattle
Haugen, Daphne, Uncl, LA.....Everett
Haugum, Evelyn LD, Educ.....Seattle
Haussler, J Cecil, Unmat.....Seattle
Havland, Esther E, Uncl,.....Seattle
Hawkes, Mary E, Grad....Hood River, Ore
Hawkins, Alma H, Unmat.....Bellingham
Hay, Muriel, UD, LA.....Seattle
Hayashi, Hisakichi, Uncl, BA.....Japan
Hayes, Genevieve, LD, LA....Oswego, Kan
Hayes, Llulu B, Uncl, LA.....Lawen, Ore
Hazelwod, Lola, Unmat.....Naperville, Ill
Head, (Mrs) Stella Beaumont.....Seattle
Healy, Warren C, UD, Sci.....Seattle
Hedden, E L, Unmat.....Fort Branch, Ind
Heiman, Jeffrey, LD, Law.....Seattle

Heine', Arnold, LD (adv) FA..Ripon, Cal
Heller.s. Lawrence W, UD, BA.....Seattle
Helmich, Leone, Grad.....Yakima
Helstrain, Gordon Louis, UD, Sci...Willapa
Henderlite, Claude ElmerV, Grad....Seattle
Henderson, Cora E, LD, Educ.....Seattle
Henderson, Frank D, Uncl, LA....Aberdeen
Harvey, F, Hendrickson, Grad.....Seattle
Hennessey, Mabel A, UD, LA.....Seattle
Henry, Ruth H, UD, FA.....Tacoma
Hensley, Olive, LD, LA.....Seattle
Henson Ethel M, LD, FA.....Seattle
Hepperle, Hulda, UD, LA.....Dubuque, Ia
Herberg, Ruth, LD, LA.....Seattle
Hermanson, Stanley, LD, Pharm....Seattle
Heron, Nellis, UD, Sci.....Seattle
Herr, Jewel, UD, LA.....Chehalis
Herren, Dora S, Unmat.....Seattle
Herren, W A, LD, LA.....Seattle
Hershberger, Emily, Grad.....Spokane
Heyburn, Frances Louise, FA...Bend, Ore
Heyes, Katherine, LD, LA.....Seattle
Hibbard, Myra, Grad.....Seattle
Hicks, Ethel D, UD, Educ.....Seattle
Higgins, Wilma R, UD, BA.....Seattle
Hildreth, Laura F, UD, LA....Dillon, Mont
Hill, Claudia O, Unmat.....Tacoma
Hill, Elma, Unmat.....Seattle
Hilleware, Clara M C, UD, Educ....Seattle
Hillman, B E, UD, Educ..Richmond Beach
Hills, Carlotta .....Seattle
Hines, Edith M, Unmat...Big Rapids, Mich
Hines, George W, Grad....Washington, DC
Hinman, Chester A, UD, BA..Lewiston, Ida
Hinman, Grace, LD, Sci.....Seattle
Ho, Fang, UD, BA.....China
Hoag, Clarice, UD, LA.....Seattle
Hoag, Ruth G, Grad....Eureka Springs, Ar
Hogdon, Grace H, Unmat.East Boothby, Me
Hodge, Warren C, Grad.....
Hodges, F C, UD, Eng.....Hurley, NM
Hodges, Mable E, UD, Sci.....Enumclaw
Hoehn, Mary P.....Seattle
Hoel, Lesta Pauline, Grad....Walla Walla
Hoffland, Anna L, Uncl, Sci.....McKenna
Hoffland, H H, UD, Educ.Medicine Lake,Mt
Hoffman, Lawrence, LD, LA.....Seattle
Holden, Blanch, LA, B.....Boise, Ida
Hollingshead, Martha M, Grad.....Lebam
Holm, Ivan H, Unmat.....
Holman, H E, UD, For.....Seattle
Holmes, George Glen, Uncl, LA..Mossy Rock
Holmes, Muriel E, Unmat.....Mossy Rock
Holmes, Wm John, Uncl, BA.Portland, Ore
Holtman, Emmarie, Unmat....Boonville, Mo
Hoker, M C, Unmat.. .....Seattle
Hootman, Mary LD, LA.....Seattle
Hopper, Edna, UD, FA.....Seattle
Howard, Inez C
Hordan, Hazel (Mrs) UD, LA.....Seattle
Howard, Frances H, UD, LA.....Seattle
Hornstra, Fred H, UD, Educ.....Auburn
Horsley, Frank Sears, UD, BA....Yakima
Hover, Helen Joy, UD, Sci.....Spokane
Horst, J Hazel, ...Seattle
Hoverson, Anne M, Unmat.Pemberton, Minn
Howard, Mabel Grace, UD, Sci....Stanwood
Howe, Ann, Unmat.....Seattle
Howe, Jessie L, Unmat.....Alden, Minn
Howe, Ramel E, UD, Educ.....Olympia
Hower, Melba, LD, LA.....Friday Harbor
Hoyendahl, Aagot, Unmat.....Spokane
Hoyt, Grace E, UD, Educ.....Spokane
Hu, Tao-Wei, UD, LA.....Wuchang
Hubbell, Helen J, Grad.....New York
Huffaker, Rosalind, Uncl, Sci.....Seattle
Hughes, Babette (Mrs) LD, LA.....Seattle
Hughes, Cecil L, Gard.....Kennewick
Hughes, Helen Eilene, Uncl, LA....Seattle
Hultgrenn, Elart E, Uncl, LA.....Sprague
Humphrey, Viola, UD, FA.....Seattle
Hunt, Ruby H, Uncl, LA.....Kennydale
Hunter, Ruth C, Grad.....Olympia
Hurd, May, UD, Educ.....Seattle
Huston, J Victoria, LD, Educ.Prineville, Ore
Hutcheson, Austin, UD, LA.....Montesano
Hutchins, Lewis R, Uncl, LA.....Seattle
Hyland, Katherine, LD, LA.....Seattle
Hutchinson, Pansy E, Grad

Ihle, Thnlda, Uncl, LA..New Falden, Minn
Ikeda, Jubel, LD, BA.....Seattle
Immisch, Eleanor F, UD, Educ....Spokane
Ingalls, Pearl A, UD, Educ.....Everett
Inkster, Harry, UD, Sci.....Seattle
Iorns, Eleanor L, UD, LA.....Seattle
Irwin, John I, Grad.....Renton
Irwin, Lauren, Uncl, LA.....Nampa, Ida
Isolany, Alice, Grad.....Presho, SD
Isolany, Constace, Grad.....Presho, SD
Israel, Eli, UD, BA.....Seattle
Ives, Waldo C, UD, Journ.....Seattle

Jackson, Betty, UD, LA.....Seattle
Jackson, Harold O, LD, BA..Portland, Ore
Jackson, Kathryne M,.....Tulsa, Okla
Jackson, Sidney Hubert, Uncl, LA..Oroville
Jacobson, Olga G, UD, LA.....Seattle
James, Clara, LD, Pharm
James, Marjorie, Grad.....Tacoma
Jamison, Edmund J, Unmat.....Seattle
Jarvis, Morton, Unmat.....Seattle
Jenkins, Olive, UD, LA.....Seattle
Jensen, A S, Grad.....Seattle
Jensen, Elfreda, Uncl, LA.....Bellingham
Jensen, Olive, UD, LA.....Joplin, Mont
Jerome, Margaret Rose, LD, LA....Seattle
Jerome, Vincent B, Grad.....Seattle
Jerome, W J, Grad.....Seattle
Johns, Loeta Lois, LD, LA.....Seattle
Johnson, Adella, Grad....Minneapolis, Minn
Johnson, Anna E, UD, LA.....Seattle
Johnson, Berkley G, UD, Educ..Long Beach
Johnson, Bertil E, Uncl, Law.....Tacoma
Johnson, Dorothea E, UD, Educ....Seattle
Johnson, Elsie M, Unmat.....Washougal
Johnson, Fannie, Grad.....Seattle
Johnson, Helen, UD, LA.....Superior, Wis
Johnson, Harriett J, Unmat.....
Johnson, Hilding, Grad.....Seattle
Johnson, H O, Unmat.....Hebron, ND
Johnson, Isyl F, UD, LA.....Tacoma
Johnson, Julia, UD, Educ.....Winfred, SD
Johnson, Milton S, UD, LA.....Seattle
Johnson, L Ross, UD, Educ..Stanford, Mont
Johnson, Nora Howarth, UD, Sci..Cle Elum
Johnson, Paul, Unmat.....Ellensburg
Johnson, (Mrs) Quenia G, UD, LA..Seattle
Johnson, Rex H, Unmat.....Seattle
Johnson, Sylvia J, Grad.....Ilwaco
Johnson, Sylvia M, Uncl, LA..Superior, Wis
Johnson, Venus June, Grad.....Seattle
Johnson, Victor E, LD, Sci.....Selah
Johnston, Daniel H, Grad.....Kent, R 1
Johnston, (Mrs) Ida F, UD, Educ....Kent
Johnston, Margaret, Uncl, LA..Butte, Mont
Johnstone, N, Unmat..Sault Ste Marie, Mich
Johnstone, Nita, Unmat....Sault Ste Marie
Johnstone, Robert V, UD, BA.....Arlington
Jolly, E Nydia, Grad.....Seattle
Jones, Ada C, LD, Educ.....Cashmere
Jones, Edwin H, Grad.....Seattle
Jones, George F, LD, LA.....Seattle
Jones, Hannah, Uncl, Educ.....Everett
Jones, Luella E, LD, LA.....Seattle
Jones, Margaret Slater, Grad....Bellingham
Jones, (Mrs) Marie M, Grad.....Forks
Jones, Marjorie, Grad.....Seattle

Jones, Mary Gwendolyn, UD, Educ..Auburn
Jones, Wilfred, UD, Educ.....Sunnyside
Jordan, Andrew A, Uncl, BA..Fullerton, Cal
Jones, Herbert C, Uncl, LA....Opportunity
Jordan, Florence A, Uncl, LA
Jordan, Frances M, UD, FA.....Maryhill
Jordan, Marjorie, UD, Educ.....Everett
Jorgensen, Harold M, UD, Eng.....Seattle
Jorgenson, Margretha, UD, Educ....Yucolt
Julayco, J Juan, UD, Sci.....PI

Kainulainen, Eino, LD, Eng.....Pearson
Kaiser, Fred, Spec, Sci.....Rolling Bay
Kaiser, Gladys G, Grad.....Seattle
Kalal, Dan, Uncl, LA.....Roy, Mont
Kangley, Helen, Grad.....Seattle
Kangley, Lucy, Grad.....Seattle
Kartes, Lacy Marcella, Unmat...Wales, ND
Katayama, Elmer Junick, LD, BA...Seattle
Kato, Makoto, Uncl, BA.....Tokyo, Japan
Kautz, Edith M, UD, BA.....Seattle
Kautz, Olive Iowa, Unmat
Keel, Minnie Le, Unmat
Kelley, Lewis P, UD, BA.....Walla Walla
Keeler, Hammond George, UD, LA..Sequim
Keenan, Frank Peter, Unmat..Portland, Oer
Keith, Allie Hazelton, Grad.....Spokane
Keller, Bertha M, UD, Sci.....Spokane
Kelley, Curtis, UD, LA.....Seattle
Kelley, Martha E, Grad.....Seattle
Kellogg, Geo A, Grad.....Seattle
Kellogg, Mary Pauline, LD, Educ..Mukilteo
Kellogg, Alvah Crawford, Unmat..Grandview
Kellogg, (Mrs) Lillian, Unmat...Grandview
Kelly, Fred, Grad.....Seattlt
Kelly, Vera Alexander, Grad.....Seattle
Kelsey, M Lucille, LD, LA.....Seattle
Keogh, Ruth C, LD, LA.....Seattle
Kendall, Irene, LD, BA.....Redmond, Ore
Kennedy, Bernice, UD, Educ.....Seattle
Kennedy, Lottie-Ann, UD, LA.....Union
Kennedy, Marguerite A, UD, Educ..Spokane
Kenney, RussellA, Grad
Kerchen, Joseph, LD, LA.....Kirkland
Kerr, Thomas S, Unmat.....Moscow, Ida
Kessler, George, Grad.....Lacey
Ketcham, Mary Virginia, LD, FA....Seattle
Kiehl, Corynn Phyllis, LD, FA.....Seattle
Kilkenny, Mabel R (Mrs) UD, BA..Seattle
Kim, T S, Uncl, Eng.....Korea
Kimura, Koreaki, UD, LA.....Seattle
King, Berr Randall, Grad.....Neppell
King, Elmina Mary, Unmat.....Neppell
King, June L, UD, LA.....Nampa, Ida
King, Jean Paul, LD, LA.....Tacoma
King, Herbert Baxter, Unmat
King, J L, UD, LA.....Seattle
Kingman, W Kenneth, UD, Journ....Chelan
Kingman, M Keith, LD, Sci.....Chelan
Kinsman, Thomas LeRoy, Unmat..La Crosse
Kipp, Pearl V, Grad.....Seattle
Kirby, Ruth, Grad.....Seattle
Kirkwood, Emile G, Grad..The Dalles, Ore
Kiyoshi, Nozaki, Grad.....Japan
Kizer, Kenneth B, Grad.....Kapowsin
Kloph, Beulah F, UD, LA..Spirit Lake, Ida
Klontz, Mary, UD, Educ.....Auburn
Knapp, Joseph A, UD, LA.....Vancouver
Knievel, A J, Jr, LD, BA....Butte, Mont
Knight, Minnie Edna, Unmat.Providence, RI
Knowlton, Margaret, Unmat....Nampa, Ida
Knutson, Knute J, UD, Educ.....Seattle
Knox, Wm A, LD, LA
Koch, Fred C, UD, Journ.....Ritzville
Kocher, Virgil, UD, BA.....Elma
Kochler, Regina, Unmat....Bozeman, Mont
Koepke, Carolyn, Grad.....Seattle
Kohagen, Walter M, UD, BA.....Yakima
Kohlruss, Fred J, LD, Sci..Balgonie, Sask

Krafft, Gertrude, Grad.....Seattle
Kraft, Marjorie, UD, Educ.....Seattle
Krause, Laura, Unmat.....Gladstone, Ore
Krenzien, Adele Helen, Unmat.Stanton, Neb
Krumm, Hulda, LD, FA....Woodman, Wis
Keunster, Orrin K, Unmat.Minneapolis, Minn
Kullberg, Jewel Helen, LD (adv)FA.Seattle
Kuppler, Virginia, UD, Educ...Port Angeles
Kurashige, Tetsuichi, Unmat..Pearl City HI

LaFollette, Marion B, UD, Eng....Seattle
Laird, Fred W, Grad.....Vancouver, BC
Lake, Alice L, UD, Educ....Port Townsend
Lambrecht, Lillian, UD, Educ..Butte, Mont
Lamielle, Lilian, Unmat.....Pocatello, Ida
Lamont, R H, UD, BA.....Seattle
Landis, Ora I, Grad.....Spokane
Lane, W Byron, LD, (adv) LA.....Seattle
Larsen, Elizabeth, Unmat.....Bickleton
Larsen, Emma E, Uncl, LA.....Tacoma
Larsin, Josephine, UD, Educ
Larson, Madeline, UD, Educ.....Tacoma
Larson, Oscar Lars, LD, LA.....Seattle
Larson, Nettie, Uncl, Sci.....Tacoma
Larson, Victor Byron, Grad.....Seattle
Lathrop, Alice P, UD, LA.....Vancouver
Lash, Frederick M, Grad
Latimer, Walter B, UD, LA....Ft Madison
Latimer, Ruby B, Unmat....Abernathy, Tex
LaVigne, J Leon, Uncl, Law.....Chewelah
Law, Charles H, Uncl, Law.....Seattle
Lawton, Muriel, UD, Educ.....Cheney
Lea, Dorothy M, UD, LA.....Spokane
Leach, J Harvey, Uncl, LA.....Lakewood
Leamon, D Thomas, LD, LA.....Seattle
Leavell, Atsey P, Unmat.....Sultan
Leavitt, Elsie, Unmat.....Hastings, Minn
Lebedeff, Yurii, Mines.....Hakodate, Japan
Ledrich, Fay, Unmat.....Millersburg, Ohio
Lee, Artrudoe L, LD, Law.....Seattle
Lee, Elsie, LD, Sci.....China
Lee, Frank A, Grad.....Seattle
Lee, Te Chiun, LA.....China
Lee, Vernet Charles, UD, Educ
Leeper, Agnes, UD, BA.....Seattle
Legg, Audrey, LD, LA.....Seattle
Legg, Emily, Grad.....Seattle
Lees, Colin W, Prov Grad.....Seattle
Leib, Rachel Smith, UD, Sci.....Seattle
Lemon, J Francis, Grad.....Seattle
LeNeve, Nina, LD, LA.....Seattle
Leonard, Eleanor H, UD, Educ.....Seattle
LeQuinne, Aida, Unmat.....Lewiston, Ida
Lesh, Chester A, LD, Law....Walla Walla
Leslie, Anna, LD, LA.....Seattle
Lester, Verna May, LD, Sci.Miles City, Mt
Levinson, Eugene, Uncl, LA.....Seattle
Levinson, Herbert, UD, LA.....Seattle
Levinson, Jack, UD, LA.....Seattle
Levinson Sam L, LD, Law.....Tacoma
Levitin, Morris, UD, Eng.....Seattle
Levy, Harry M, Uncl, LA.....Seattle
Levy, James M, LD, BA.....Oakland, Cal
Levy, Tony W, UD, Educ.....Spokane
Lewis, Wilma, UD, LA.....Seattle
Liang, ChingCheun, UD, BA.....China
Libby, Elizabeth, Unmat.....Sedro-Woolley
Lie, Borghild Constance, Grad.....Seattle
Lillesve, Mabel, UD, Educ..McIntosh, Minn
Lind, Agnes K, LD, FA.....Winona, Minn
Lind Anna R, UD, LA.....Mt Vernon
Lindenberg, Ella, UD, Educ.....Puyallup
Lindquist, Irene, UD, LA....Hancock Mich
Link, Frances A, Unmat.....Seattle
Linn, R Donald, UD, BA.....Aberdeen
Linn, Harold A, UD, LA....Princeton, Ill
Linn, Marion Cecelia Grad....Silverton, Ore
Little, Dorothy V, Grad.....Seattle
Little, Helen A, Grad (prov)..Butte, Mont

Liu, Min Chang, Uncl, Sci.....China
Liu, Shun-Tsung, UD, BA.....China
Lloyd, Bernice, Uncl, LA....LaGrande, Ore
Livingston, Jennie, Unmat.....Winlock
Livatino, Sr Gencrosa.....Seattle
Livingston, Louis Smith, UD, LA..Winlock
Lockhart, Anna Belle, Unmat.Bozeman, Mont
Loe, Ralph H, UD, Sci.....Seattle
Loewer, Charles H, UD, BA.....Seattle
Lommen, Julia A, Unmat.....Seattle
Lommen, Olga L, Unmat.....Seattle
Lonergan, Thyra, UD, LA.....Seattle
Long, Agnes, UD, LA .....Seattle
Long, James Glenn, LD, Eng.....Seattle
Long, Samuel D, Unmat
Longenbaugh, May Moore, Unmat....Tacoma
Loock, Rose, LD, FA.....Spangle
Londen, Russell, UD, Educ.....Centralia
Londenback, Ivan R, Spec, BA
Love, Grover Allen, UD, LA....Snohomish
Lovegren, Levi A, Grad.....Cherry Grove
Lovejoy, Albert R, Grad.....Seattle
Lowe, Anna F, Uncl, LA.....Denver, Colo
Lowe, Ben F, Grad.....Tacoma
Lowe, Helen Y D, LD, LA....Victoria, BC
Lowman, V G, LD, Educ.....Seattle
Luccock, Harriett O'n, Grad.....Seattle
Luelf, Amanda, Unmat.....Bellflower, Mo
Luithlen, (Mrs) Aurelia M, LD, LA..Seattle
Lund, John Grant, LD (adv) LA....Seattle
Lundin, Helen Marian, Grad.....Lead, SD
Lurie, Elise M, LD, LA.....Seattle
Lyle, William, UD, Sci.....Seattle
Lytle, Mary, Unmat

McAillister, Geraldine, LD, LA.....Seattle
McAnally, Bonnie, LD, LA.....Yakima
McAnally, James, UD, Sci.....Seattle
McBride, Kathleen, UD, Educ
McCafferty, Ruth Lewis, LD, LA
McCall, Edith A.....Bremerton
McCarthy, Clara G, Grad.....Seattle
McCarthy, (Mrs) Ethel F, Unmat....Wilbur
McCarthy, J F, Unmat.....Creston
McCarthy, William G, Grad.....Seattle
McClelland, Unmat.....Mercersburg, Pa
McClurg, (Mrs) Laura P, Spec, LA..Seattle
McConnell, Grad .....Seattle
McCorkill, Minnie, UD, Educ.....Spokane
McCoubrey, Arthur M, Unmat.....Seattle
McCoy, Anna Mae, Unmat.....Spokane
McCroskey, UD, BA.....Seattle
Macdonald, Elizabeth, Grad.....Eau Claire
Macdonald, Katrine B, Grad.....Seattle
McDonald, Juilliard, Uncl, LA..S Francisco
MacDonald, Rachel I, UD, LA.....Kent
McDonald, V C, UD, Educ....Sedro Woolley
McDonnel, Edward L, Grad.....Seattle
McDonough, Raphael, LD, LA.....Seattle
McElroy, Jean B, UD, BA.....Seattle
McEntyre, Alice, LD, LA.....Seattle
Macfarlane, Lorna LD, LA....Caldwell, Ida
McFate, Jennie, Unmat.....Everett
McGavock, Margaret, Unmat..Denver, Colo
McGibbon, Eileen, UD, LA.....Seattle
McGill, Alice, LD (adv) Sci.....Seattle
McGill, Eleanor, UD, LA.....Seattle
McGill, Merrie P, Grad.....Seattle
McGill, Winifred, Grad.....Victoria, BC
McGrath, Doris, UD, Educ....Walla Walla
McGuire, (Mrs) Grace A, Uncl, FA..Seattle
McHenry, Mildred, Uncl, LA.....Spokane
McIntire, Ezra E, Unmat
McIntosh, Edith A, UD, Educ..Anoka, Minn
McIntosh, Gertrude, LD, LA.....Seattle
McKay, Annie Laurie, UD, LA.....Seattle
McKay, Lorraine, Grad.....Seattle
McKee, Clarence T, LD, FA.....Seattle
McKelvey, Muir, LD, BA.....Seattle
McKibben, Irene, Grad.....Seattle
McKennel, Eloise McP (Mrs) Unmat.Seattle
McLaughlin, Uncl, LA.....Seattle
MacLaughlin, Margaret, UD, Sci....Seattle
MacLean, Mae Z, LD, LA.....Seattle
McLellan, Margaret, LD, LA.....Seattle
Macleod, Hazel E, Unmat....Vancouver, BC
McMahan, Rene G, UD, Educ.Sedro Woolley
McManus, Mildred, LD, FA..Vancouver, BC
MacMaster, Sarah, Unmat.....Seattle
McNair, Sally, Unmat.....Great Falls
McNamara, Harold W, LD, LA.....Olympia
MacNaughton, Corabel, Grad.....Seattle
MacNaughton, Ellen, Grad..Waukesha, Wis
McNeill, Harold E, UD, Eng.....Tacoma
McNeill, Nellie F, Grad.....Tenino
MacNeven, Anne, Uncl, Sci..Gaylord, Mich
McPhee, Jean R, Grad.....Spokane
McPhee, Sophia, Grad.....Seattle
McQuary, Lora E, UD, LA.....Dayton
McSorley, M Lillian, UD, LA.Delaran, Wis
Ma, Chang-Zan, UD, BA.....Bankok, Siam
Macomber, F Glenn, Uncl, LA.....Cheney
Madden, Amy Lee, Uncl, BA..Butte, Mont
Madden, Helen I, UD, Educ..Caldwell, Ida
Mahaffey, A F, Grad.....Tacoma
Mahoney, Katharine, LD, LA.....Seattle
Main, Clara, UD, FA.....Sunnyside
Mallery, Joseph A, UD, LA.....Castle Rock
Mallery, Mildred M, UD, Educ.....Seattle
Malloy, Mary .....Seattle
Maltby, Addie E, LD, Educ.Cut Bank, Mont
Maltby, Jeanete E, Grad.....Spokane
Manard, Lucile, UD, LA.....Seattle
Manley, Catherine B, LD, BA.....Seattle
Mann, Mamie Viola, Unmat.....Fir
Manning Edward, UD, BA.....Everett
Mansfield, Allen H, LD, LA.....Everett
Manthey, Isabel W, LD, Sci.....Seattle
Mapes, Carl H, Grad.....Seattle
Mapes William, UD, LA.....White Salmon
Marberg, Vivian M, Uncl, LA.....Everett
Mardon, Hazel, LD, LA.....Seattle
Marsh, Elenore, LD, LA.....Seattle
Marsh, Jessie G, (Mrs) Unmat.....Seattle
Marsh, Lillian A, UD, Pharm....Arlington
Marsh, Paul F, Uncl, LA.....Seattle
Marsh, Urma L, Grad.....Dryad
Marston, Grad .....Seattle
Martin, Alfred E, LD, BA.....Seattle
Martin, C Lee, Unmat.....Tenino
Martin, Earl B, UD, LA.....Tacoma
Martin, Eva M, Uncl, LA.....Minot, ND
Martin, Homer E, Grad.....Boise
Martin, John Frederick, LD, Sci....Seattle
Maryott, Sara L, LD, LA.....Seattle
Mason, Binna, UD, Educ.....Cheney
Mason Lelia, UD, LA.....Spokane
Mason, Myrtle, Grad.....Boise, Ida
Massey, Rose, Unmat.....Vallejo, Cal
Matsen, Ida M, Unmat.....Seattle
Matson, Ethel B, Unmat.....Selah
Matthews, Alfred W, Grad.....Puyallup
Matthews, Wm P, Grad.....Puyallup
Maxam, Elsie, Uncl, LA.....Tacoma
Maxfield, Charles L, Grad.....Seattle
Maxwell, Lucy, Uncl, LA.....Cheney
Maxwell, William C, Grad..Burlingame, Cal
May, Nita J, Grad.....Dayton
Mayhew, Corabelle, Unmat....Billings, Mont
Mead, Lawrence, UD, BA.....Wenatchee
Meckstroth, LD, BA.....Seattle
Mehner, Margaret, Grad.....Bremerton
Mendenhall, Ethel, LD, LA....Burden, Kan
Mennell, Estella Peabody, UD, Sci..Seattle
Metcalf, Emma, Uncl, LA.....Seattle
Metcalf, Holace, LD, FA.....Marysville
Metler, Gordon E, Uncl, LA..Rexford, Mont
Metz, Franchon, Uncl, LA.....Ritzville

Metz, Myrtle, Uncl, LA....Post Falls, Ida
Meyer, Ambrose, Grad.....Lacey
Meyer, Edward A, LD, LA.....Edmonds
Meyer, Walter Charles, Grad.....Spokane
Meyer, Wilhelm Hugo, LA.....Seattle
Michelson, Edith S, Grad.....Seattle
Michelson, Helen A E, UD, Educ....Kellogg
Mielke, Grace, UD, Educ.....Coulee, ND
Milam, C H, UD, Educ.....Seattle
Miles, Edward, Uncl, Eng.....Seattle
Miles, John Hunter, UD, BA.....Chehalis
Milkwick G Viola, Unmat..Anaconda, Mont
Miller, Charlote, UD, LA.....Seattle
Miller, Colwell, LD (adv) Sci.Meridian, Ida
Miller, Ella V, Unmat.....Seattle
Miller, Ethel M, Grad.....Winslow
Miller, Frances .....Horton, Kan
Miller, Ira Thomas, LD, LA.....Seattle
Miller, Irene L, UD, Educ....Sedro Woolley
Miller, John E, LD, LA.....Seattle
Miller, Theo H, UD, BA....Kalispell, Mont
Miller, Vera Winona, UD, LA.....Seattle
Miller, Zelma, Grad.....Goldendale
Millican Harold A, Grad.....Seattle
Millikin, W Earl, Unmat.....Seattle
Mills, Archibald R, LD, LA.....Seattle
Mills, Victor, LD, Eng.....Seattle
Milnor, Mary, Unmat.....Seattle
Milot, John A, LD, Law.....Seattle
Milton, (Mrs) Nellie S, LD, LA..Darrington
Miner, Eva Lee, UD, Sci.....Seattle
Minter, Laurabelle, UD, LA.....Tacoma
Mobley, Rosamund R, Grad.....Vallejo
Moffet, Edith, Grad.....Woodinville
Moffet, Lambert B, Unmat.....Seattle
Molloy, Mame E, LD, LA....Jackson, Mich
Molloy, Myrnie E, LD, LA..Jackson, Mich
Monda, George O, UD, LA.....Seattle
Moodie, R Norma, LD, LA.....Lead, SD
Moore, Edwin H, Unmat.....Seattle
Moore, EloiseW, UD, Sci.....Chewelah
Moore, Gerald E, Grad.....Seattle
Moore, Rose E, Uncl, LA.....Boise, Ida
Moran, (Mrs) Christina L, LD, LA..Seattle
More, Luther, LD, LA.....Seattle
Morford, Helen, Grad.....Seattle
Morgan, Leota Pearl, Unmat....Twin Falls
Morgan, M Evan, Grad.....Seattle
Morgan, Nessa M, Uncl, FA....Ellensburg
Moriarty, Vance E, LD, BA.....Seattle
Morikawa, Kisaku, Unmat.....Seattle
Moriwake, Ernest K, LD LA.....Honolulu
Morris, Katherine W, UD, Sci.....Seattle
Morrison, Beatrice M, Uncl, LA
Morrison, Harriet .....Spokane
Morrison, Wendel W, UD, BA.....Buena
Morrow, Mable, LD, LA....Lanesville, Ohio
Morse, Katherine H, Unmat.....Olympia
Moseley, Grace, LD, LA.....Seattle
Moseley, R D, LD, BA.....Seattle
Mosher, Ida, LA.....Spokane
Moultrop, Lena V, UD, Educ..Walla Walla
Muhommed, Wali, Unmat.....Sawahi
Mulhern, LD, Sci.....Seattle
Mumford, Clarence B, LD, Sci.....Seattle
Munn, Jane B, LD, BA.....Spokane
Muns, Zola F, UD, Educ.....Zillah
Muntzer, Maude V, UD, Educ.....Seattle
Murphy, Margaret H, Unmat.....Entiat
Murphy, Teresa C, Uncl, LA....Butte, Mont
Murray, Estelle, Unmat.....Fremont, Neb
Murray, Hazel K, Unmat.....Clallam Bay
Murray, (Mrs) Hazel, Uncl, Educ..Olympia
Murray, Jane F, UD, Educ....Port Blakeley
Murray, Marion V, Unmat....Vancouver, BC
Murray, Valois Agnes, Grad.....Seattle
Musgrave, Dorothy, LD, LA.....Seattle
Myer, Charles I, Grad.....Sunnyside
Myer, Edna M, Grad
Myer, Thelma A C, Grad.....Seattle
Meyer, W H, LD, LA

Nagel, Julius A, LD, Sci.....Seattle
Nagel, Mary S, (Mrs) Unmat.....Seattle
Nagtalon, Melchor, LD, Fish.....Vintar
Nakajima, Shinko, UD, Educ.....Japan
Neal, Russell L, UD, Educ.....Washtucna
Needham, (Mrs) Bessie O, Unmat
Neely, C Bertis, UD, LA.....Seattle
Neely, Jas H, Unmat.....Fullerton, Cal
Neidert, Louis J, Grad.....Seattle
Neikirk, Abigail .....Seattle
Nelson, Beulah Mae, Grad.....Cashmere
Nelson, Evelyn Ida, LD, LA.....Seattle
Nelson, Everett J, Grad.....Castle Rock
Nelson, Florence, LD, LA.....Seattle
Nelson, Norine, UD, Educ.....Mt Vernon
Nelson Olga A, Unmat.....Spokane
Nestor, Ruth E, LD, Sci.....Seattle
Nettleton, Marie, UD, Educ.....Seattle
Neubecker, Delbert E, Spec, BA....Everett
Neumann, Paul H, Unmat.....Prescott
Neupert, George J, Unmat....Coeur d'Alene
New, Edward, Grad.....Gig Harbor
Newman, Leo L, LD, Law.....Seattle
Newton, Florence E, LD, LA.....Seattle
Newton, (Mrs) Grace P, UD, Educ..Everett
Nichols, Mary, UD, LA.....Tacoma
Nicholson, Marion, LD, LA.....Tacoma
Niederjohn, Anna M, LD, LA.California, Mo
Nishinoiri, John I, UD, LA.....Japan
Nix, Martha J, Grad.....Seattle
Noblitt, Dewey I, UD, LA.....Curtis
Nordberg, Olga E, Grad.....Marysville
Nordberg, Erika, Grad.....Marysville
Nordquist, Elsie E, LD, LA.....Seattle
Nordholm, Olga Eleanor, Grad.....Seattle
Norfolk, Genevieve, UD, FA.....Spokane
Norie James L, Jr., LD, LA.....Seattle
North, Stella M, Unmat.....Kennewick
Notkin, (Mrs) Natalie B, UD, LA..Seattle
Notson, Mary E, Grad.....Heppner, Ore
Nozaki, Kiyoshi, Uncl, LA.....Auburn
Numoto, Minoru, LD, Eng.....Auburn

Oakley, E A, Grad.....Auburn
Oakley June, Unmat.....Seattle
Oberholser, Ethel E, UD, LA.Mansfield, Mo
Ochs, Martha E, UD, LA.....Seattle
Odle, M Frank UD Educ.....Bellevue
Oertel, Anna M, LD, FA.....Seattle
Ohlin, Augusta, LD, LA.....Tacoma
Okajima, Thelma Shizu, LD, LA....Seattle
Okerlund, Gerda M, Grad.....Seattle
Okihara, Ryushin .....Seattle
Oliver, (Mrs) K Laird, Unmat..Omaha, Neb
Olson, Florence C, Uncl, FA.....Bothell
Olney, Pansy Wilde, UD, Sci.....Spokane
Olson, Fredolph S, Uncl, LA....Bellingham
Olson, Frances E, UD, Educ..Brush Prairie
Olson, Helen F, Grad.....Seattle
Olson, Olga M, LD, LA.....Port Blakeley
Olson, Ronald LeRoy, UD, LA.....Seattle
Opland, Carmen M, Unmat..Calumet, Mich
Opstad, Edwin R, Unmat.....Blaine
Orford, Gladys, Unmat.....Boise, Ida
Orr, Paul, Grad.....Auburn
Osgniack, John Augustine, Grad.....Lacey
Osten, Winnifred, Uncl, Educ.....Seattle
Ostensen, Floyd C, Grad.....Seattle
Ostrand, Hildur W, Grad.....Bellevue
Otis, Peggy, LD, Sci.....Clinton
Overby, Vesta, Uncl, LA.....Pasco
Overfield, Frank P, Grad.....Everett

Packenham, Helen (Mrs) UD, Sci.Boise, Ida
Packenham, H E, UD, Educ.....Boise, Ida
Paine, Anna Lee, UD, Educ.....Boise, Ida

Paine, Carol Margaret, Grad....Boise, Ida
Palacol, Augustine P, Grad.....Philippines
Palmer, J Lee, Uncl, Educ.....Hillyard
Palmer, Mary E, LD, LA.....Blaine
Palls, E Margaretha, UD, Educ....Mukilteo
Pariseau, Eugenie B, UD, Educ....Seattle
Parish, (Mrs) Florence R, Grad....Spokane
Park, Dorothy, UD, Educ....Greenville, Tex
Parker, Anna O, Unmat.....Conrad, Mont
Parker, Victor A, Uncl, LA..Conrad, Mont
Parks, Dorris B, UD, LA.....Seattle
Parks, Earl W, Grad.....Engle, Ida
Parson, Dorothy Jean, Unmat..Moscow, Ida
Parson, Maude, UD, Sci.....Seattle
Parsons, Elvey T, Grad.....Seattle
Pascoe, Myra A, Grad.....Seattle
Patch, Della, UD, Educ.....Beach
Patch, Esther A L, Uncl, LA
Paup, Everett, UD, BA..Ketchikan, Alaska
Payne, M Caroline, LD, LA.....Seattle
Peak, Mabel E, Unmat.....Seattle
Pearl, Gertrude E, Uncl, BA..Port Angeles
Pearson, Annie, Uncl, LA....Flandreau, SD
Pearson, (Mrs) Mabel D, LD, LA....Seattle
Pecar, Alma, Grad.....Louisville
Peck, Ruth E C, Grad.....Portland
Pelz, Freda E, Grad.....Seattle
Pelz, Gladys, UD, LA.....Seattle
Pelz, Irma M, Grad.....Seattle
Perkins, Gwendoyn, Grad.....Seattle
Pery, Allan, Uncl, Sci.....Walla Walla
Peterson, Abbie, UD, LA.....Seattle
Peterson, Anita M, Grad.....Tacoma
Peterson, Grace H.....Seattle
Peterson, Hilma J, LD, BA.....Seattle
Peterson, Ida G, UD, Educ.....Marinette
Peterson, Edward J, UD, Law.....Seattle
Peterson, Inez, UD, LA.....Seattle
Peterson, Juanita, LD, LA.....Seattle
Peterson, Sigurd H, Grad....Corvallis, Ore
Peterson, Ole Theodore, Grad....Enumclaw
Petterson, Clara M, UD, Educ.....Seattle
Pettibone, Florence, UD, Educ.....Kahlotus
Pfiffner, Myrtle, Grad.....Dillon, Mont
Phelps, Ellen, LD, LA.....Seattle
Phelps, Frances Brownell, Unmat.Napa, Cal
Phelps, Howard R, UD, Eng.....Tacoma
Philippi, Harry C,Grad.....Bellingham
Philippi, Herbert, LA, Uncl.....Bellingham
Phillips, A B, UD, LA.....Seattle
Phillips, Constance, UD, FA.....Seattle
Phillips, Julius Clarence, UD, LA....Almira
Pierce, Burton B, LD, LA.....Seattle
Plank, Ellis W, UD, Sci.....Pierce, Ida
Platt, Anne C, Grad.....Seattle
Playter, Gray, UD, BA.....Seattle
Plechner, Alfred Jay, UD, BA.....Seattle
Plemon, Gladys, UD, LA.....Wallula
Poe, Earl B, LD, BA.....Puyallup
Pohl, Clara M, Grad.....Chehalis
Pollard, Dora, LD, BA.....Seattle
Pollard, Jean, UD, LA.....Seattle
Pond, Elizabeth B, Grad.....Seattle
Potgieter, Jennie, Grad....Steamboat Rock
Powell, Mary D, Grad.....Selah
Powers, Anna M, Grad.....
Powers, Marie K, Grad.....Seattle
Powley, Louise W, Grad.....Seattle
Pratt, Ivan S, Spec, BA.....Seattle
Pratt, L Laurence, Unmat..Forest Grove Ore
Prescott, John Edward, LD, Eng....Seattle
Pretlow, Cloitide L, Grad.....Seattle
Pretlow, Sarah I, Unmat....Lewiston, Mont
Price, Helen M, Grad.....Brewster
Price, (Mrs) Dessie A Hall, Grad
Prichard, Milton, UD, Educ.....Burton
Pritchard, J G, Grad.....Seattle
Provan, Olive E, UD, Sci.....Woodinville
Provost, Noel L, Grad.....Harrington
Pruessmann, Margaret, LD, BA.....Seattle
Puckett, Carl E, UD, Eng.....Tacoma
Puette, Raymond V, UD, Educ.....
Pugh, Anne C, UD, Educ.....Seattle

Quam, Gertrude, UD, Educ.....Kent
Quanstrom, Ellen M, UD, BA.....Seattle
Quas, Mabel, UD, Educ.....Spokane
Quigley, Mary J, UD, Sci.....
Quinby, August W, Unmat..Ft Collins, Colo
Quinn, Ellen G, LD, LA.....Seattle

Raasch, Leonard O, Grad.....Kent
Rafn, Harold, UD, Sci.....Puyallup
Redway, Elizabeth A, Grad.....Tacoma
Ramsey, Ida L, Grad.....Aberdeen
Ramsey, Rachel, UD, Sci.....
Ratz, F A, UD, Sci.....Seattle
Rapp, Mary Elizabeth, LD, LA....Spokane
Rapuhn, Hanna, Unmat.....Fessenden, ND
Rathbun, Anna L, Uncl, LA.....Seattle
Ratigan, Helen, Unmat.....Seattle
Ratigan, Thos, Grad.....Seattle
Raveill, Henri, UD, Eng.....Seattle
Ravndal, Lillian, Unmat.....
Raymond, Ethel Gertrude, Grad.....Seattle
Reagh, Mayme L, Unmat.....Portland, Ore
Redford, Walter, UD, Educ.....Seattle
Redway, Elizabeth A, Grad.....
Reed, Clyde L, UD, LA.....Bellingham
Read, Clifford W, Unmat.....
Reed, Donald H, Uncl, LA.....Seattle
Reed, Emily Sutherland, Uncl, Sci.....
Reed, Jennie M, Grad.....Tacoma
Reed, Jessica, Grad.....Seattle
Reeder, Thos A, LD, LA.....Seattle
Reese, Mary E, LD, Pharm.....Cle Elum
Rehbock, R H, Grad.....Yakima
Reichmann, Regina J, UD, LA.....
Reid, Florence E, UD, BA.....Govan
Reinett, Herbert R, UD, LA..Valier, Mont
Bernard, Reiter, LD, LA.....Seattle
Relf, Eugenia, UD, Educ.....Seattle
Revello, Daisy, LD, LA.....Roslyn
Reynolds, Clara, UD, LA..Oregon City, Ore
Rhodes, Josephine, UD, Educ.La Grande, Ore
Rhodes, (Mrs) Mary S.....Spokane
Rhodes, Ruth, UD, Sci.....Aberdeen
Rice, Melvin P, Uncl, Sci.....Centerview
Rice, Charles A, LD, BA.....Eagle, Ida
Richardson, M McL, Uncl, Law..New Castle
Richardson, Otis D, Grad.....Seattle
Riches, Marjorie, LD, LA....Silverton, Ore
Ridley, Elsie W (Mrs) Grad.....Seattle
Ringheim, Irene, Unmat.....Los Angeles
Riss, Eleanor G, Unmat.....Seattle
Riste, Donald E, LD, BA.....King
Riste, Ida, LD, LA.....Seattle
Roaney, Marland B, Grad.....Bellingham
Robarge, Edmire A, UD, Educ.....Buffalo
Robbins, Nadine Irene, LD, LA.....Seattle
Robe, Cecil F, Grad.....Davenport
Robe, Vivian More, Grad.....Granite Falls
Roberts, Lillian E, LD, LA.....
Roberts, Ina Streets, UD, LA..Butte, Mont
Roberts, Mary C, Unmat.....Seattle
Robertson, Donald A, LD, BA.....Seattle
Robertson, Loring C, Spec, BA..Payette, Ida
Robinson, Besie May, Grad....Portland, Ore
Robinson, Eva M, Unmat.....Caldwell, Ida
Robinson, Fred O, Uncl.....Helena, Mont
Robinson, Nelson G, LD, LA.....Seattle
Roche, Phil Q, LD, Sci.....Spokane
Rochester, James M, LD, LA.....Tacoma
Rodgers, Anna, Unmat.....Butte, Mont
Rodman, Blanche, Uncl, Educ.....Wapato
Rodman John F, Grad.....Seattle
Roemer, Albert J, UD, BA...St Paul, Minn
Roesch, Geo E, Uncl, BA..Colorado Springs

Roeser, Emmy Lou, UD, FA..Freeland, Mich
Rogers, Julia W, Grad.....Auburn
Rogers, Lillian .....Tacoma
Rogers, Mary B, Unmat.....Kansas City,Mo
Rogers, Violet P, LD, Sci.....Seattle
Rognan, Esther B, UD, LA.....Seattle
Rohowits, Edythe K, LD, LA.....Seattle
Rohowits, G M, LD, LA.....Seattle
Rohrer, Harvey V, UD, BA....Abilene, Kan
Roll, Dorothy Bates, LD, LA.....Seattle
Roller, M A, LD, LA....North English, Ia
Roodhouse, Ella, LD, LA.....Nampa, Ida
Roop, Milford W, Grad.....Benton City
Rose, Edith, LD, BA.....Prosser
Rosen, Martha L, UD, Sci.....Monroe
Rosenbaum, Carl, LD, LA.Great Falls, Mont
Roth, Robert, UD, Sci.....Seattle
Rousch, Minnie A, UD, Educ..Palestine, Ill
Rowell, Elizabeth, Unmat.....Seattle
Ravndak, Lillian, UD, Educ.....Yakima
Richardson, Margaret M, UD, FA.....
Rowley, Mabel A, UD, Educ.....Everett
Rowse, Helena B, UD, Educ.....Seattle
Royer, Catherine, UD, Sci.....Seattle
Royster, Helen, LD, LA.....Seattle
Rudolph, Evangeline, Grad.....Seattle
Rude, Hazel, UD, Educ.....Seattle
Rudy, Margaret, UD, LA.....Seattle
Ruhl, W E, Unmat.....Port Orchard
Rundlett, Clara, Unmat....Shannon City Ia
Russell, Florence J, Uncl, La...Opportunity
Russell, Harold W, LD, Eng.....Spokane
Russell, Ruth, UD, Library.....Seattle
Russell, Rae, Uncl, Sci.....Seattle
Russell, William A, Grad.....Seattle
Rustia, Manuel S, Grad.....Philippines
Rutherford, George, Uncl, Educ....Garfield
Rutter, Beatrice, UD, Educ.....Spokane
Ruzicki, Henry J, Grad.....Lacey
Ryan, John Francis, Grad.....Shoshone, Ia
Ryberg, Lillian A, Grad.....Kenyon, Minn

Sacknitz, Alvia, Unmat.....Lewiston, Ida
Sadler, (Mrs) Estella, Grad.....Tacoma
Samuel, T Cness.....Seattle
Sandall, Inez Fae, UD, Educ.....Spokane
Sader, Norma, Uncl, LA.....Fremont, Neb
Sanden, Arthur G, Grad.....Bellingham
Sandstadt, (Mrs) Etta M, LD, LA..Seattle
Sanders, Vernon T, Grad..Nicholasville, Ken
Sandusky, Lawrence, Grad.....Spokane
Santee, Eva, Grad.....Vancouver
Sater, Julia, Grad.....Seattle
Satre, Alice, UD, Educ.....E Stonewood
Satterthwaite, George W, UD, Educ..Seattle
Saubert, Eleanor, Uncl, Grad..Cushman, Ore
Savage Anthony, LD, Law.....Seattle
Savage, (Mrs) Florence H, UD, FA..Seattle
Savage, George M, LD, LA.....Tacoma
Sawhill, Mary Louise, LD, LA.....Seattle
Sawyer, Mary J, Unmat.....Spokane
Sayler, Chas D, LD, LA.....Seattle
Scates, Ivan G, Grad.....Dayton
Schaill, LD, Sci.....Seattle
Schelling, Agnes L, UD,LA.....Spokane
Schermer, Jack M, LD, LA.....Seattle
Schibig, Walter J, LD, BA.....Wapato
Schlarb, Jack .....
Schmid, Byron C, Grad.....Seattle
Schmitt, Mildred M, UD,LA.....Seattle
Schmidt, Ethelyn, Uncl, LA.....Seattle
Schmidt, William F, Grad, Unmat..Spokane
Schmitt, Tessie M, UD, Law.....Seattle
Schnasse, Gertrude, UD, LA....Walla Walla
Schnitzlein, Anita, UD, Sci..Long Beach, Cal
Schofield, R H C, LD, LA.....Seattle
Scholz, Ernest H, Spec, BA.....La Crosse
Schonhard, Alice, Uncl, LA.....Centralia
Schonhard, Helen, Uncl, LA.....Centralia

Schooley, UD, BA.....Zillah
Schrader, Otto H, Grad.....Seattle
Schroeder, Fred W, Grad....Warrenton, Mo
Schulte, Harriet, Grad....New Hampton, Ia
Schwald, Patrick J, Spec, BA..Walla Walla
Scott, Bessie B, Uncl, LA.....Seattle
Scott, Elsie M, LD, LA.....Twisp
Schweizer, Carl A, Uncl, BA.....Seattle
Scott, Marjorie, Grad.....Berkeley, Cal
Scramuzza, Vincent M, Grad...New Orleans
Seabury, M, Ada, Unmat.....Mt Vernon
Sealls, Margaret C, UD, LA.....Seattle
Sealls, Rachel J, Grad.....Seattle
Seibert, Philip J, UD, BA.....Seattle
Seidenfeld, Morton A, LD, Pharm....Seattle
Selby, Kenneth E, UD, Educ....Bellingham
Selgelid, Orville, UD, BA.....Burlington
Serrano, Bartolome, UD, Sci.....Luna, PI
Sexsmith, Hazel, Grad.....Spokane
Sey, Martha, LD, Sci.....Douglas, Alaska
Seyler, Ernestine, LD, BA.....Port Arthur
Shankel, George E, Unmat.....
Sharnbroich, M L, UD, Educ....Pt Angeles
Shafer, Lloyd N, Grad.....Seattle
Shafer, Herbert, LD, LA.....Tacoma
Shapley, J Louis, Unmat.....Elma
Shantz, H S, Unmat.....Seattle
Sharp, Mary C, UD, Educ.....Seattle
Sharpe, Virginia, Unmat..Great Falls, Mont
Shaw, John A, Jr Grad.....Spokane
Shea, Thomas Francis, Unmat.....Seattle
Sheahan, George C, UD, BA.....
Sheldon, Dorothy E, Uncl,Educ..Nampa, Ida
Shelton, Arthur L, LD, LA.....Seattle
Shepheard, Percy N, LD, LA..Victoria, BC
Sherman, Jesica L, Grad..Sioux Falls, ND
Sherrer, Helen M, LD, Sci.....Seattle
Sherrill, Ruth A, Grad.....Seattle
Shidler, Edwin, Grad.....Seattle
Shidler, Edwin, Grad.....Seattle
Shields, Louise F, Unmat....Portland, Ore
Shigemura, Chicko, LD, BA..Port Blekeley
Shimizu, Frank, LD, BA.....Tokio, Japan
Shirkey, Emily Frances, Grad.Norborne, Mo
Shollenberger, J Wayne, UD, BA....Seattle
Shoudy, Helen, LD LA.....Ellensburg
Showalter, Lillian, Unmat..Youngstown, O
Shuman, Rachel, Grad.....Yakima
Sievers, Esther E, LD, LA.....Mt Vernon
Silliman, Marieta, UD, BA.....Seattle
Silvers, Josephine, UD, Educ.....Bothell
Simonds, Henry C, Unmat.....Tacoma
Simmons, Elsie M Nelson, Grad....Tacoma
Simonds, Esther, Grad.....Seattle
Simpson, Lorline V, Grad.....Seattle
Simpson, Ted, LD, Pharm.....Everett
Sicter Elizabeth Clare, UD, Educ..Spokane
Sister Esther May, UD, Educ.....Seattle
Sister Mary Alexander, UD, LA....Spokane
Sister M Ambrosia, UD, LA.....Tacoma
Sister Mary Aquin, LD, FA.....Tacoma
Sister Mary Clementine, UD, Educ..Seattle
Sister M de Paul, Unmat.....Tacoma
Sister Mary Dolores, UD, LA.....Tacoma
Sister Mary Dominic, UD, LA.....Tacoma
Sister Mary Edwardine, UD, LA....Tacoma
Sister Mary Estelle, Grad.....Seattle
Sister M Generosa L, Unmat.....
Sister Mary Josepha, LD, FA.....Tacoma
Sister Mary Josephine, UD, LA.....Tacoma
Sister Mary Lambert.....Seattle
Sister Mary Louise, UD, LA.....Tacoma
Sister M Lourdina, LD, LA.....Seattle
Sister Mary Margaret, UD, Educ....Seattle
Sister Mary Marietta, UD, Educ....Seattle
Sister Mary Michael, UD, FA.....Seattle
Sister Pancratius Kearney, Grad....Seattle
Sister Mary Paul Hoehn, Unmat....Seattle
Sister M Regina Koehler, Unmat.....

Sister Mary Rosena, LD, FA.....Tacoma
Sister Mary V Buss, Uncl, FA.Blackfoot, Ida
Sister M Veronica of Milan, UD, LA.Seattle
Sister Rose de Lima, UD, Educ.....Seattle
Sister M Veronica.....Spokane
Sister M Uamberta Fasbender.....Spokane
Sievers, Esther E, UD, LA....Marion, Kan
Sjaastad, Helga, UD, Educ.....Tagus, ND
Skalley, Kathleen, UD. Educ.....Everett
Skeen, Roy L, Grad.....Ridgefield
Skidmore, Samuel A, UD, BA.....Tacoma
Slade, Iloe, LD, LA.....Juneau, Alaska
Slaughter, W D, Unmat.....Spokane
Slauson, Celeste, LD, LA.....Seattle
Slavin, Jacob, LD, Sci.....Seattle
Slawson, Maude Myrtle, UD, FA....Seattle
Sloan, D H, Grad.....Seattle
Sloan, Lydia May, Unmat.....Chicago
Sloan, Wayland C, LD, BA.....Seattle
Slone, Alice O, Uncl, FA.New Plymouth, Ida
Slusher, Charlote B (Mrs) UD, LA..Seattle
Smiley, Clara, Grad.....Seatle
Smith, Alma A, Grad.....Prescott
Smith, Byron B, UD, Educ.....Cheney
Smith, Dorothy A, UD, LA.....Tacoma
Smith, Ellen M, Unmat.....Spokane
Smith, L Emmett, LD, LA.....Startup
Smith, George M, Grad.....Seattle
Smith, Hall, UD, BA.....Seattle
Smith, Harry, Jr, UD, BA.....Bellingham
Smith, Herndon, Grad.....Seattle
Smith, James G, Uncl, Law.....Seattle
Smith, Janet Sarah, UD, Sci.....Auburn
Smith, Kirby Jackson, Uncl, LA..Napavine
Smith, (Mrs) Louise, Uncl, LA.....Seattle
Smith, Mary Adelaide, UD, LA.....Seattle
Smith, Mary Gene, Unmat....Portland, Ore
Smith, (Mrs) Maude Lena, Unmat..Prescott
Smith, W Virgil, Grad.....Seattle
Smith, Wayne C, UD, BA.....Lynden
Snider, Gertrude G, LD, LA.....Seattle
Snyder, Harold C, UD, LA.....Seattle
Snyder, Ida Mae, UD, Educ.Rochester, Minn
Soller Telesforo, LD, Sci.....PI
Somerville, Edna, LD, LA.....Klein, Mont
Sorem, Evelyn, Unmat.....Modesto, Cal
Sorenson, A Esther, LD, LA.....Seattle
Sorenson, Harry D, UD, Educ....Nooksack
Soukup, Belle G, Unmat. Sturgeon Bay, Wis
Sparling, Robert, UD, Educ.....Vancouver
Spaulding, Emilie T, UD, Educ....Yakima
Spencer, Carlton E, Grad.....Eugene, Ore
Spiller, Amy L. UD, Educ.....Belf, Mont
Skuire, Zetta L, LD, FA.....Nooksack
Stanley, (Mrs) F W, UD, FA.Hysham, Mont
Stacy, Virginia, UD, FA.....Clarkston
Stager, Helen E, LD, Sci.....Seattle
Stair, Ninabelle, UD, LA....Frankfort, Ind
Stamm, C H, UD, Eng..Bonners, Ferry,Ida
Stanford, Cora Lee, Unmat..Greenville, Tex
Stanford, Effie V Unmat.....Meridian, Ida
Stanley, Mark M, Uncl, LA..Hysham, Mont
Stapleton, Margaret L, UD, LA....Seattle
Stark, Jeannette, LD, LA.....Seattle
Staten, Mildred, UD, Educ.....Seattle
Stedman, Vera, UD, Sci.....Seattle
Steele, Chas Egbert, LD, LA.....Seattle
Steelman Charlotte, Grad.....Seattle
Steelman, Eleanor, Grad....Salt Lake City
Steves, Blanchard P, Grad.Salmon Arm, BC
Steeves, (Mrs) N, Grad..Salmon Arm, BC
Stenberg, Betsey P, UD. LA....Bellingham
Stephens, Mildred B, UD, LA.....Seattle
Sterling, Edna L, Grad.....Seattle
Sterrett, Nellie B, UD, LA.....Seattle
Stevens, Blanche Viola, Unmat.....Custer
Stevens, Theodore G, Grad.....Custer
Stevenson, Robert J, LD, LA.....Seattle
Stewart, Lorena, UD, Educ....Leesburg, O
Stewart, Oliver, UD, Eng.....Seattle
Stewart, Richard H, LD, LA.....Seattle
Steward, Winifred (Mrs) UD,Sci.Bellingham
Stilwell, Edward M, Grad.....Seattle
Stirrat, James R, LD, BA.....Seattle
Stirrud, Lydia E, UD, LA.....Seattle
Stirrud, Louise, UD, LA.....Seattle
Stock, Leon L, Grad.....Seattle
Stone, Emma Dell, LD, LA.....Seattle
Stone, Hazel E, Grad.....Thornton
Stone, Lucia May, Unmat.....Sunset
Stone, Myrtle M, Unmat.....Sunset
Stone, Nellis C, UD, Educ.....Thornton
Stone, Ethel Viola, Unmat.....
Stoneman, A V, LD, LA.....Seattle
Stoner, Bertha A, LD, LA.....Auburn
Stor, Paul W, Unmat.....St Paul, Minn
Storey, Bertha, Unmat.....Seattle
Storey, Gertrude, Unmat.....Seattle
Storm, Alfrida, Unmat.....Spokane
Stowell, Ernest P, UD, Educ.....Seattle
Straight, Robert, UD, Educ.....Vancouver
Strevey, Elmer T, Grad.....Kennewick
Stringer, Gertrude A, Unmat.....Tacoma
Strobach, Nettina Louise, Grad.....Yakima
Stuart, Z Althea, Grad.....Spokane
Stulliken, F M, Uncl, Educ.....Austin, Tex
Sullivan, Joseph D, Unmat.....Cowiche
Sullivan, Ora, LD, Sci.....Seattle
Sullivan, Robert Edward, UD, Educ..Seattle
Sundquist, Ida Elvera, UD, Sci..Mt Vernon
Sunnell, Bertha, UD, Educ.....Mt Vernon
Suzuki, Junkichi, Unmat.....Seattle
Svenson, Lillie M, UD, Educ.....Cheney
Swafford, Ruth C (Nelson) LD, FA..Seattle
Swalle, George, UD, BA....San Diego, Cal
Swanson, Florence L, UD, Sci..Troy, Mont
Sweeney, Frank E, Uncl, Law.....Seattle
Sweet, Florence, Unmat....Canon City, Colo
Swenson, Elaine, UD, FA.....Seattle
Switzer, Willis E, Uncl, LA..Waheno, Wis
Sycour, Charles O, UD, Sci.....Seattle

Tabor, Frances Mae, UD, Educ.....Seattle
Tachell, Maud, Grad.....Renton
Takahashi, Ted, LD, Sci.....Seattle
Takenchi, Shonosuke, BA..Masujama, Japan
Talarico, Felix .....
Tang, Nien Yee, UD, Sci..Hangchow, China
Tang Sik Pui, LD, BA.....Canton
Tanner, Merle, Grad.....Seattle
Tanzer, Max, UD, BA.....Seattle
Tapert, Harold E G, LD, Pharm...Issaquah
Tapscot, C B, UD, LA.....Marshall, Ill
Taughner, Conrad, LD, Sci.....Seattle
Taylor, Henrietta, Grad.....Tacoma
Taylor, Martha A, LD, LA....Duluth, Minn
Tee-Garden, C U, Grad.....Seattle
Teig, Ralph, LD, Eng.....Seattle
Tennant, Hugh, LD, Pharm.....Pasco
Tennyson, Doris E, Uncl, LA.....Cheney
Terry, Lawrence, LD, Pharm.....Republic
Tesreau, Lee Elmer, LD, BA.....Chehalis
Tewinkel, Joseph M, Grad.....Spokane
Thode, Elizabeth, UD, Sci.....Boise, Ida
Thomas, Anna M, Unmat.....Bellingham
Thomas, Catharine L, UD, LA.....Hillyard
Thomas, Earl B, Spec, BA.....Leland
Thomas, Elois, Nnmat.....Kalispell, Mont
Thomas, Ethyle M, Uncl, LA.....Seattle
Thomas, Gertrude M, Grad.....Cosmopolis
Thomas, James C, Spec, BA.....Seattle
Thompson, Aletha, Grad.....Seattle
Thompson, Alice, Uncl, LA..Hendrum, Minn
Thompson, Anna, Unmat.....Portland, Ore
Thompson, Grace G, Unmat..Spirit Lake, Ia
Thompson, Lois W, Unmat.....Sunnyside
Thomsen, C M, LD, LA....Hood River, Ore
Thomson, Vella, Uncl, Pharm.....Gold Bur

Thostenson Geo H, LD, BA.....Seattle
Thrun, Beatrice D, UD, Educ.....Seattle
Thune, Alta L, UD, Educ.....Everett
Thune, Elmer T, Grad.....Edmonds
Tiffany, Martha Jane, UD, Sci....Bremerton
Tilden, Iva Armitage, Unmat.....Juneau
Toles, Martha, LD, LA.....Centralia
Toobill, F E, Law.....
Torkelson, Grad .....Seattle
Tovey, Idylene M, Grad.....Seattle
Towle, Edith Mary, UD, Educ.....Seattle
Towne, Arthur H, Grad....Richmond Beach
Towner, Earl M, Grad.....Seattle
Townsend, Florence E, UD, Educ...Olympia
Troth, Alonzo P, Unmat.....Spokane
Trotter, Georgia E, Unmat.....Marysville
Trowbridge, K S, UD, For....Augusta, Ga
Tsi, Hsiao Chih, UD, BA.....Peking, China
Tsui, Tit Shaan, LD, BA....Canton, China
Tsung, Hsien T, Uncl, BA..Hanyang, China
Tucker, Roy F, LD, Sci.....Seattle
Tucker, W C, LD, LA.....Richmond Beach
Tuckfield, Maud, Uncl, Sci..Salt Lake City
Turnbull, (Mrs) D Cady, Unmat..Aberdeen
Turnbull, Fred A, UD, Educ....Skakomish
Turner, Alma R, Spec, BA.....Seattle
Turner, Arthur F, UD, Eng.. ...Seattle
Turner, Bess Roberts, UD, Educ....Spokane
Turner, Cecilia H,UD, LA.....Everett
Turner, Ernest R, Spec, BA.....Seattle
Turner, Mary R, Unmat.....Odebolt, Ia

Uhden, Esther D, UD, LA.....Seattle
Umbarger, Elizabeth L, LD, LA....Seattle
Underhill, Julia A, LD, LA.....Seattle
Underhill, Walter M, Grad.....Seattle
Unthank, Louise C, Unmat.Kansas City, Mo
Upcraft, W S, LD, LA.....Seattle
Upton, Ralph W, LD, LA.....Seattle
Urbanek, Eugene R, UD, Eng.....Seattle
Ure, Lawrence, LD, BA.....Seattle
Ushakoff, Demtry D, Uncl, BA.....Orel

Valleau, Esther E, Grad.....Alberton, Mont
Valleau, Verna, Grad.....Deer Park
Van de Wetering, George, LD, LA..Lynden
Van Devanter, Louise M, Grad.....Burton
Van Horn, Esther, Grad.....
Van Orsdall, Ottie Pearl, LD, LA....Seattle
Van Vleet, Cecil Spicer, Grad....Vancouver
Van Vleet, Elsie M, (Mrs) Grad..Vancouver
Varney, Adah M, UD,Educ..Kansas City, Mo
Venoss, Margaret, Unmat..Alexandria, Minn
Vernon, Elleanor, Grad.....Seattle
Vogler, Theodore K, Uncl, LA.....Seattle
Vogt, Elizabeth M, Uncl, LA.....Spokane
Voorhes, Melvin B, LD, LA.....Seattle
Voeks, Forrest, Grad .....

Wachter, Virginia, UD, LA..Texaskana, Tex
Wafer, Barbara, Grad.....Seattle
Wagner, Florence M, Grad.....Sequim
Wahl, Leonora, UD, LA.....Seattle
Wahlstram, Ebba L, UD, LA..Wahoo, Neb
Wait, Thelma, LD, LA.....Seattle
Waite, Laura M, Unmat.....Antwerp, NY
Waite, Nettie L, Grad.....Seattle
Wakelee, Eva E, Grad.....Tacoma
Walcher, R B, UD, Educ....Marshall, Okla
Waldron Kathryn M, Uncl, LA..Minot, ND
Walker, Anna Sloan, Grad.....Seattle
Walker, Donald B, UD, BA.....Seattle
Wall, G T, UD, LA.....Lacey
Wallace, Genelle, UD, Sci.....Seattle
Wallenberg, Alva I, Uncl, LA.....Seattle
Wallis, Clinton G, Unmat.....Seattle
Walther, Noel S, Unmat.....Seattle
Wann, Arva W, UD, BA.....Walla Walla
Ward, Angeline, Unmat.....Toppenish
Ward, Theodore W, LD, BA.....Seattle
Ward, W E, Unmat.....Seattle
Ware, Janet M, Grad.....Kirkland
Ware, Madge S, UD, Educ....Bellingham
Warne, Ada Mary, Grad.....
Warner, Genevieve, UD, Educ.....
Warren, Ermine Grace, Grad.....Satsop
Washburn, Charlotte, LD, LA.....Seattle
Wassberg, Clarence E, Grad.....Seattle
Watkins, Ethel G, Unmat....Caldwell, Ida
Watkins, Eula M, UD, Educ.....Seattle
Watkins, Ina-Ree, UD, Educ.....Seattle
Watkins, John T, Unmat.....Caldwell, Ida
Watkins, Minnie Jane, UD, Educ....Seattle
Watson, Jean Ferguson, Grad.....Seattle
Watson, P H, LD, BA.....Seattle
Watson, Percy H.....Seattle
Watt, Elsie, Grad.....Seattle
Watt, Mabel, Grad.....Seattle
Waxmann, Marie J, UD, Educ..New York
Wayman, Josephine, Grad.....Emmett, Ida
Weage, Avery, Grad.....Seattle
Weage, Ruth, LD, LA.....Seattle
Weaver, Grace, Grad.....Seattle
Weaver, Polly, Grad.....Spokane
Webster, Mary Ella G, Grad....Clarkston
Webster, Mary Jane, Grad.....Puyallup
Weed, Agnes Lucile, UD, Educ..Deary, Ida
Weisman, Frances, UD, Educ.....Spokane
Weisman, Sara E, UD, Educ.....Spokane
Welch, Ann, LD, LA.....Tracy, Minn
Wells, Ina, UD, LA.....Fort Collins, Colo
Welty, Leo D, UD, Educ....Apple Creek, O
Wenig, Edward J, Grad.....
Wentjar, Agnes, Unmat.....Astoria, Ore
Werby, Helena J, Grad.....Seattle
Werby, Mamie, Grad.....Seattle
Westfall, Virginia, LD, LA.....Seattle
Westgate, Margaret, Grad.....Vancouver
Weymouth, F C, UD, Educ..Rose Lake, Ida
Whaley, M Ballard, UD, Educ....Oakesdale
Whalley, Alice M, Uncl, LA.....
Wheeler, Chetta M, Unmat..Petersburg, Alas
Wheler, Edward B, UD, BA.....Seattle
Wheeler, Gladys Fidile, Grad.....Seattle
Wheeler, Marjorie Marie, Uncl, LA..Seattle
Wheeler, Verna, Grad.....Gig Harbor
Whipple, C R, UD, For.....Boise, Ida
Whirry, Hugh E, Grad.....Auburn
Whitcomb, Alice E, UD, Educ.....Seattle
Whitcomb, Edna O, Unmat...Laurence, Kan
White, Bessie A, Unmat.....Yakima
White, Clara Anne, LD, LA.....Yakima
White, Dorothy E, LD, LA.....Monroe
White, Ethel V, LD, Sci.....Almira
White, Helen K, LD, LA.....Seattle
White, Mabel N, UD, Educ.....Everett
Whiteman, Phebe, UD, Educ.LaCrosse, Kan
Whitford, Richard W, Grad.....Kirkland
Whiting, Grace A, LD, LA.....Seattle
Whitmore, Doris, UD, Educ.....Buckley
Whitney, Frank E, Grad.....Yakima
Whitmore, Maude, LD, Sci.....
Whitney, Hobart W, Unmat.....Seattle
Whitwell, Grace E, Unmat.....Seattle
Whitworth, Sidney E, UD, LA..Dallas, Ore
Widell, Hilda L, UD, LA.....Centralia
Wienand, Carl M, Grad.....Seattle
Wilder, Anne C, Grad....Kansas City, Mo
Williams, Arthur J, Spec, BA.Rathdrum, Ida
Williams, Eda M E, UD, Educ..Bellingham
Williams, Ethel M, Grad.....Seattle
Williams, M Lee, UD, LA.Miles City, Mont
Williams, Roberta F, UD, LA.....Seattle
Williams, Ronald C, UD, BA.....Sprague
Williamson, Ralph K, LD, LA.....Seattle
Williston, Ellen H, Grad.....Enumclaw
Williston, Ellen H, Grad.....Enumclaw
Williston, H, Grad.....Salem, Ore
Willmorth, Gladys M, Grad....Nampa, Ida

Willoughby, Beryl, UD, Sci.....Seattle
Wilson, S Bertta, Grad.....Seattle
Wilson, Clotilde, LD, LA.....Seattle
Wilson, Evadne, Unmat.....Portland, Ore
Wilson, Evelyn Faye, Grad.....Toppenish
Wilson, Florence Alden, Grad.....Seattle
Wilson, Frances Imogen, Grad.....Seattle
Wilson, Gladys G, Grad.....Harlan, Ia
Wilson, Grace, UD, LA.....Seattle
Wilson, Gretta, M UD, Educ..St Joseph, Mo
Wilson, Mabel P, LD, LA.....Seattle
Wilson, Marjorie F, Grad.....
Wilson, Ruth E, UD, Sci.....Ellensburg
Wilson, Otis Estee, Grad..Portland, Oregon
Wilson, William, Grad...Sand Coulee, Mont
Wing, Ada Ruth, Uncl, LA.....Toledo
Winn, Bertha, Grad.....Seattle
Winnard, Winifred, UD, LA.....Seattle
Wintermantle, Pearl, LD, FA.....Seattle
Wiseman, Orville R, UD, LA.....Seattle
Wolfe, Olive, Uncl, LA.....Bremerton
Wolfe, D H, Grad.....Bremerton
Wolter, Edward F, UD, Educ....Bellingham
Wong, Violet, LD, Sci.....Vancouver, BC
Wong, Wah Chin, LD, BA.....Canton
Wong, Wing Hong, LD, BA.....Canton
Wong, Yee, LD, BA.....Canton
Wood, Carl E, Grad.....Seattle
Wood, Irene B, LD, LA.....Bremerton
Wood, Muriel, Grad.....Seattle
Wood, Zilphia, LD, FA.....Tacoma
Woodmansee, Jack, LD, LA.....Mesa, Ida
Woodward, S A, UD LA.....Granite Falls
Worthington, Patricia, Uncl, LA....Spokane
Wray, Francis B, UD, For.....Seattle
Wright, Calvert C, LD, Eng..Victoria, BC
Wright, Parke A, UD, Educ.....Snohomish
Wright, Quintin B, Uncl, LA.....Seattle
Wu, Andres Y, LD, BA....Honkgong, China
Wyers, Marie, UD, Sci.....White Salmon
Wynstra, Walter S, UD, Educ.....Cheney
Wyse, Jeannette, Unmat.....Williams, Cal

Yager, Winifred, Unmat.....Portland, Ore
Yamaoka, George, UD, LA.....Seattle
Yancey, Della M, Grad.....Burkley
Yang, C C, Unmat.....Fukien
Yarnell, Guy U, Uncl, LA.....Vancouver
Young, Pak-Cheung, LD, BA.....Hongkong
York, Arthur F, Uncl, Law.....Tacoma
York, (Mrs) Hazel B, UD, Educ....Tacoma
Yorogi, Shozaburo, Grad.....Tokyo
Yost, Virginia C, UD, Sci.....Toppenish
Youlden, Charles S, UD, BA.....Seattle
Youle, Gretchen, LD, LA.....Seattle
Young, (Mrs) Alma K, Grad.....Seattle
Young, Amie O, UD, Educ.....Seattle
Young, Charlene, LD, BA....Sedro Woolley
Young, Harold D, Grad.....LaGrande, Ore
Young, Jeffie D, Unmat.....Mangunm, Okla
Young, Glendowin, LD, BA..Sedro Woolley
Young, Viva E, (Mrs) UD, LA.....Seattle
Young, Wesley G, Grad.....Seattle

Zahl, H M, LD, BA.....Seattle
Zehle, Emma, LD, Educ.....Lowell
Zener, Robert G, UD, Eng....White Salmon
Zill, Meta H, LD, LA.....Billings, Mont
Zimmerman, LD, LA.....Everett

PUGET SOUND BIOLOGICAL STUDENTS—1924

Angst, Laura .....Chehalis
Baldwin, John E.....Decatur, Ill
Barto, Grace M.....Bellingham
Bennett, Darwin E.....Walla Walla
Berg, Gunnar H.....Kelso
Blalock, Phoebe I.....Walla Walla
Blatherwick, Leonard N.....Quanah, Texas
Brennan, B Lenna.....Bellingham
Brooks, F Stanley.....Mound City, Kan
Brunner, Elma .....Seattle
Campbell, Maurine P.....Rosalia
Campbell, Robert A.....Rosalia
Canfield, Ruby .....Seattle
Case, Ethel .....Spokane
Chambers, Alva L.....Seattle
Church, C Corbly.....Portland, Ore
Conmey, Kathryn.....Sedro Woolley
Cooper, Zola K.....St Louis, Mo
Dale, Anga M.....Parkland
Dobbs, Charlotte M.....Seattle
Docherty, Mary.....Bellingham
Donworth, Mary .....Seattle
Doubt, Sarah L.....Topeka, Kans
Drake, Marguerite.....Portland, Ore
Dunkelberger, Inez.....Halstead, Kans
Durrant, Dorothy.....Seattle
Eaton, Lealdes M.....Decatur, Ill
Eddy, Samuel.....Decatur, Ill
Edwards, Thomas A.....Great Falls, Mont
Emery, Marianne.....Seattle
Eriksson, Archie.....Arlington
Essex, Hiram E.....Galesburg, Ill
Eestergreen, Grace.....Lynden
Feighner, Lena.....Kansas City, Kans
Felten, Earnest.....Decatur, Ill
Ferrell, Mary T.....Sunnyside
Ferry, Frances.....Seattle
Fisken, Ruth K.....Spokane
Francisco, Daisy.....Great Falls, Mont
Galbraith, Mary.....Seattle
Gillett, Agnes A.....Walla Walla
Gould, Bertha.....Tacoma
Graves, Lydia C.....Bellingham
Gray, Charles W.....Seattle
Gross, Mabel.....Walla Walla
Hagyard, Mrs May.....Seattle
Hale, Vernon W.....Decatur, Ill
Harper, Marguerite.....Decatur, Ill
Harris, Fred O.....Seattle
Hart, Ernestine C.....Vancouver
Hartge, Mrs Lena A.....Seattle
Hinckley, H Elizabeth.....Seattle
Hinckley, Kathryn.....Seattle
Hof, Anna C.....Washington, DC
Hortvet, Louise.....Minneapolis, Minn
Houston, Mary C.....Enumclaw
Johnson, Axella.....Redmond
Johnson, Elin E.....Redmond
Johnson, Mrs Martin.....Friday Harbor
Koester, Ruth G.....St Paul, Minn
LaPlante, Roger B.....Decatur, Ill
Lazier, Edgar Locke.....Portland, Ore
Lazier, Mrs Gratia M.....Portland, Ore
Limbach, Dorothy H.....Seattle
Logan, George A.....Washtucna
Mayes, Evelyn.....Seattle
Meserve, Frank G.....Grand Island, Nebr
Mielke, Helen E.....Spokane
Murphy, Mary E.....Seattle
Myers, Maragret E.....Everson
Nestor, Bernard D.....Seattle
Nielson, Clara E.....Ferndale
Olsen, Claude Sylvan.....Seattle
Osa, Lorents.....Friday Harbor
Parker, Mildred.....Lawrence, Kans
Pease, Mrs Amelia.....Bellingham
Phelps, Lillian.....Kansas City, Mo
Pierron, Richard P.....Bellingham
Pope, Jessie M.....Bellingham
Pritchett, Herman C.....Decatur, Ill
Putnum, Phillips G.....Hillsboro, Ore
Rankin, Estelle A.....Bellingham
Rapp, Louise.....Council Bluffs, Iowa
Rhoads, Leonore.....Vancouver
Richards, Bertha M.....Ada, Kans
Rowles, Emmett.....Athens, Ohio
Russell, Mae E.....Tacoma
Scott, Kathleen.....Portland, Ore
Searson, Wilma R.....Lincoln, Nebr
Shackleford, Martha.....Tacoma
Shafer, Olive M.....Shelton
Shumway, George A.....Creston, Ore
Shumway, Orpha.....Canton, Ill
Shumway, Ruth.....Bellingham
Smith, Mary Ellen.....Kansas City, Kans
Smith, Vera G.....Lawrence, Kans
Sonnemann, Dorothy M.....Chehalis
Southworth, Martha S.....Walla Walla
Speer, Minerva L.....Seattle
Steggerda, Morris.....Holland, Mich
Stevens, Belle A.....Maltby
Stillman, Frances.....Spokane
Storey, Guinevere.....Kirkland
Sumwalt, Margaret.....Baltimore, Md
Surbeck, Irma E.....Walla Walla
Tabor, Sydney C.....Decatur, Ill
Taylor, Kyle.....Seattle
Thostenson, Clarence.....Seattle
Tomlinson, Margaret.....Seattle
Turula, Sadie.....Winlock
Tyler, Geraldine.....Lawrence
von Scheele, Susanna.....Afognak, Alaska
Ward, Winifred.....Seattle
Weage, Esther A.....Seattle
Weinlein, Marion.....Nashville, Ill
Wells, Wayne W.....Marshfield, Ore
Wentworth, Margaret.....Seattle
White, Wilma.....Cottage Grove, Ore
Wilson, Paul T.....Yakima
Withycombe, Helen P.....Yamhill, Ore
Wolfe, Katherine A.....Lincoln, Nebr
Wood, Helen F.....Morton
Young, Dixie.....Mangum, Okla

SHORT COURSE IN FISHERIES—1925

Basse, E M.....Seattle
Brehm, Geo O.....Seattle
Buchholz, Raymond.....Beach
Canady, C L.....Portland, Ore
Douglas, Roy E.....Seattle
Drynan, William I.....Hamilton, Ont
Ellsworth, Arthur I.....Seattle
Firnstahl, G W.....Seattle
Head, J A.....Cathlamet
Hesse, Emar J.....Seattle
Hutchins, Malone.....Earlington
Kelly, Roy.....New Westminster, BC
McLean, Arthur.....Juneau, Alaska
Marvin, Harold S.....Olympia
Miller, Edwin L Jr.....Kansas City, Kans
Pratt, Randall S.....Seattle
Roth, Alexander.....Seattle
Tattersall, Percy T.....Seattle
Thompson, Edward.....Portland, Ore
Turnacliff, William.....Seattle
Williams, Bert A.....Seattle

SHORT COURSE IN FISH CULTURE—1925

Hill, Harry.....Hoaglin, Ore
McCurdy, L E.....Vancouver
Winslow, John M.....Montesano

SUMMARY OF ENROLLMENT, 1924-1925

SUMMARY OF ENROLLMENT—1924-1925

BY SCHOOLS AND COLLEGES

SCHOOLS AND COLLEGES	SUMMER QUARTER			AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER	TOTAL
	1st T.	2nd T.	TOTAL				
	1	2	3	4	5	6	7
Grad. School.	550	417	642	282	285	299	357
Men.....	219	207	254	153	171	170	187
Women...	331	210	388	129	114	129	170
Liberal Arts.	590	453	642	1883	1920	1761	2151
Men.....	172	153	187	740	797	712	879
Women...	418	300	455	1143	1123	1049	1272
Science.....	159	134	239	557	529	491	628
Men.....	59	53	80	250	239	199	278
Women...	100	81	159	307	290	292	350
Bus. Admin..	198	192	214	1041	990	909	1209
Men.....	166	163	180	920	841	795	1056
Women...	32	29	34	121	149	114	153
Education...	354	255	383	138	150	148	157
Men.....	75	82	82	42	40	43	43
Women...	279	173	301	96	110	105	114
Engineering..	32	32	32	565	591	500	674
Men.....	32	32	32	565	590	500	673
Women...	..	..	..	..	1	..	1
Fine Arts....	110	77	141	474	472	462	534
Men.....	6	7	16	83	93	88	95
Women...	104	70	125	391	379	374	439
Fisheries....	1	..	1	36	64	26	64
Men.....	1	..	1	36	64	26	64
Women...	..	..	..	..	..	..	..
Forestry.....	7	7	7	137	154	108	170
Men.....	7	7	7	137	154	108	170
Women...	..	..	..	..	..	..	..
Journalism..	11	9	11	20	21	38	.. 23
Men.....	6	6	6	13	16	25	16
Women...	5	3	5	7	5	13	7
Law.....	25	22	28	113	122	120	121
Men.....	25	22	28	110	120	116	118
Women...	..	..	..	3	2	4	3
Library Sci...	..	..	..	29	27	22	29
Men.....	..	..	..	1	1	1	1
Women...	..	..	..	28	26	21	28
Mines.....	..	..	..	34	42	23	42
Men.....	..	..	..	34	42	22	41
Women...	..	..	..	..	..	1	1
Pharmacy...	16	16	16	141	141	128	151
Men.....	9	9	9	105	103	103	111
Women...	7	7	7	36	38	25	40
TOTAL.....	2053	1614	2356	5450	5508	5035	6310
Men.....	777	741	882	3189	3271	2908	3732
Women...	1276	873	1474	2261	2237	2127	2578

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; Column 3 the number registered during the summer quarter; Column 7 the number registered during the regular 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—1924-1925

BY CLASSES

SCHOOLS AND COLLEGES	SUMMER QUARTER			AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER	TOTAL
	1st Term	2nd Term	TOTAL				
	1	2	3	4	5	6	7
Graduates...	550	417	642	331	324	340	405
Men.....	219	207	254	186	196	197	219
Women.....	331	210	388	145	128	143	186
Seniors.....	401	329	452	643	723	784	703
Men.....	160	154	178	385	450	451	426
Women...	241	175	274	258	273	333	277
Juniors.....	554	429	636	778	775	956	884
Men.....	165	164	185	468	467	558	523
Women...	389	265	451	310	308	398	361
Sophomores..	284	250	329	1560	1683	1353	1805
Men.....	112	108	128	886	942	745	1049
Women...	172	142	201	674	741	608	756
Freshmen....	221	161	244	2086	1943	1573	2392
Men.....	90	84	100	1226	1169	945	1430
Women...	131	77	144	860	774	628	962
Special.....	43	28	53	52	60	29	121
Men.....	31	24	37	38	47	12	85
Women...	12	4	16	14	13	17	36
TOTAL	2053	1614	2356	5450	5508	5035	6310
Men.....	777	741	882	3189	3271	2908	3732
Women...	1276	873	1474	2261	2237	2127	2578

TOTAL STUDENTS IN RESIDENCE

During regular academic year	6,310
During summer quarter	2,356
	8,666
Deduct summer quarter duplicates	530
	8,136

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; Column 3 the number registered during the summer quarter; Column 7 the number registered during the regular academic year. For comparison with other institutions, the figures in Columns 3 and 7 should be used, as these are the customary catalogue figures.

EXTENSION STUDENTS

Correspondence		614
Men	332	
Women	282	
Extension Classes		1,686
Men	348	
Women	1,335	
Total Extension		2,300

NOTE.—The Extension Service enrolls students at any time during the twelve months. The figures given indicate the number actually studying correspondence, or in extension classes during some part of the year beginning May 15, 1924.

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