ANNUAL CATALOGUE

OF THE

UNIVERSITY OF WASHINGTON

FOR 1928

SEATTLE, WASHINGTON

July, 1928

Seattle
University of Washington Press
1928
NOTICE

The University and its various colleges and schools reserve the right to change the rules regulating admission to, instruction in and graduation from the University and its various divisions, and any other regulations affecting the student body. Such regulations shall go into force whenever the proper authorities may determine, and shall apply not only to prospective students but also to those who may, at such time, be matriculated in the University. The University also reserves the right to withdraw courses at any time.
The University campus, comprising 562 acres, lies between Fifteenth Avenue Northeast and Lake Washington, and East Forty-fifth Street and Lake Union. Ravenna and Cowen Park cars run one block west of the campus. The offices of administration are located in Education Hall and are best reached by leaving the car at East Forty-second Street and University Way.
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Note.—See Index, page 526, for detailed information.
THE UNIVERSITY CALENDAR
1928-1929

AUTUMN QUARTER
Examination for admission.................. Wednesday, Thursday, Friday, September 19, 20, 21.
Latest day for securing reserved sections by payment of fees. Thursday, Sept. 18, 4:30 p.m.
Latest day for registration without penalty.................. Saturday, September 26, 4:30 p.m.
Freshman Week .................. Begins Thursday, September 27, 8:30 a.m.; ends Saturday, September 29, 10:30 p.m.
Instruction begins.......................... Monday, October 1, 8 a.m.
Regular meeting of faculty.................. Tuesday, October 22, 4 p.m.
Latest day for receiving W's without grade.................. Saturday, October 27, 12 m.
Thanksgiving recess begins.................. Wednesday, November 28, 6 p.m.
Thanksgiving recess ends.......................... Monday, December 3, 8 a.m.
Regular meeting of faculty.................... Tuesday, December 11, 4 p.m.
Examination for admission.................. Wednesday, Thursday, Friday, December 19, 20, 21.
Instruction ends.......................... Thursday, December 20, 6 p.m.

WINTER QUARTER
Latest day for securing reserved sections by payment of fees. Thursday, Dec. 20, 4:30 p.m.
Latest day for registration without penalty.................. Saturday, January 5, 12 m.
Instruction begins.......................... Monday, January 7, 8 a.m.
Regular meeting of faculty.................. Tuesday, January 29, 4 p.m.
Latest day for receiving W's without grade.................. Saturday, February 2, 12 m.
Washington's birthday (holiday).................. Friday, February 22.
Regular meeting of the faculty.................. Tuesday, March 12, 4 p.m.
Examination for admission.................. Monday, Tuesday, Wednesday, March 18, 19, 20.
Instruction ends.......................... Friday, March 22, 6 p.m.

SPRING QUARTER
Latest day for securing reserved sections by payment of fees. Friday, March 22, 4:30 p.m.
Latest day for registration without penalty.................. Saturday, March 30, 12 m.
Instruction begins.......................... Monday, April 1, 8 a.m.
Regular meeting of faculty.................. Tuesday, April 29, 4 p.m.
Latest day for receiving W's without grade.................. Saturday, April 27, 12 m.
Campus day.......................... Friday, April 26.
Regular meeting of faculty.................. Tuesday, June 4, 4 p.m.
Memorial day (holiday).......................... Thursday, May 30.
Instruction ends.......................... Friday, June 14, 6 p.m.
Class day and alumni day.......................... Saturday, June 15.
Baccalaureate Sunday.......................... Sunday, June 16.
Commencement.......................... Monday, June 17.
*College Entrance Board Examinations at Seattle, Tacoma, and Spokane. June 17 to 22 Inc.

SUMMER QUARTER
1929-30
Latest day for securing reserved sections by payment of fees. Saturday, June 15, 4:30 p.m.
Instruction begins.................. Tuesday, June 18, 8 a.m.
Latest day for receiving W's without grade (first term)............... Tuesday, July 2, 4:30 p.m.
Independence day (holiday).................. Thursday, July 4.
Latest day for receiving W's without grade (full quarter).................. Tuesday, July 16, 4:30 p.m.
First term ends.......................... Wednesday, July 24, 6 p.m.
Second term begins.......................... Thursday, July 25, 8 a.m.
Latest day for receiving W's without grade (second term)............... Thursday, August 8, 4:30 p.m.
Instruction ends.......................... Wednesday, August 28, 6 p.m.
*Note: Applicants for examination in June, 1929, should communicate before April 30 with the Secretary of the College Entrance Examination Board, 431 West 117 St., New York City.
THE BOARD OF REGENTS

A. H. B. JORDAN, President .................................................. Everett
Term ends March, 1934

J. D. FARRELL, Vice-President ........................................... Seattle
Term ends March, 1929

PAUL H. JOHNS, Secretary .................................................. Tacoma
Term ends March, 1932

JOSEPH EDWARD LEASE .................................................... Centralia
Term ends March, 1929

J. M. PERRY ................................................................. Yakima
Term ends March, 1932

ROSCOE A. BALCH ............................................................ Spokane
Term ends March, 1933

JAMES V. PATERSON .......................................................... Seattle
Term ends March, 1934

HERBERT THOMAS CONDON, Assistant Secretary to the Board

COMMITTEES OF THE BOARD OF REGENTS

BIOLOGICAL STATION ..................................................... Paterson, Chairman; Perry, Lease

COOPERATIONS ............................................................... Perry, Chairman; Lease, Paterson

STUDENT WELFARE ......................................................... Lease, Chairman; Balch, Perry

BUILDINGS AND GROUNDS ................................................ Johns, Chairman; Jordan, Farrell

FINANCE ................................................................. Johns, Chairman; Balch, Farrell

LANDS AND DEMONSTRATION FOREST ................................ Balch, Chairman; Paterson, Jordan

METROPOLITAN LEASE .................................................... Farrell, Chairman; Jordan, Johns
OFFICERS OF ADMINISTRATION

THE UNIVERSITY

MATTHEW LYLE SPENCER, Ph.D., LL.D. .................President of the University
Education Hall

DAVID THOMSON, B.A. ..................................Dean of Faculties
Education Hall

FREDERICK MORGAN PADELFORD, Ph.D. ................Assistant Dean of Faculties
Denny Hall

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

EDWARD BICKNELL STEVENS, A.M. .....................Registrar
Education Hall

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

THE FACULTIES

IRVING MACKEY GLEN, A.M. ..........................Dean of the Faculty of Fine Arts
Music Building

DAVID THOMSON, B.A. ..................................Dean of the Faculty of Letters
Denny Hall

HENRY LANDES, A.M. .................................Dean of the Faculty of Science
Science Hall

CHARLES EMANUEL MARTIN, Ph.D. .................Dean of the Faculty of Social Science
Philosophy Hall

CARL EDWARD MAGNUSSON, Ph.D., E.E. ..........Dean of the Faculty of Technology
Engineering Hall

THE COLLEGES AND SCHOOLS

DAVID THOMSON, B.A. ..................................Dean of the College of Liberal Arts
Denny Hall

HENRY LANDES, A.M. .................................Dean of the College of Science
Science Hall

WILLIAM EDWARD COX, A.M. .........................Dean of the College of Business Administration
Commerce Hall

WILLIS LEMON UHL, Ph.D. ............................Dean of the School of Education
Education Hall

FREDERICK ELMER BOLTON, Ph.D. .................Dean Emeritus of the School of Education
Education Hall

CARL EDWARD MAGNUSSON, Ph.D., E.E. ..........Dean of the College of Engineering
Engineering Hall

IRVING MACKEY GLEN, A.M. .........................Dean of the College of Fine Arts
Music Building

JOHN NATHAN COBB .................................Dean of the College of Fisheries
Fisheries Hall

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

VERNON MCKENZIE, A.M. ............................Dean of the School of Journalism
Commerce Hall

ALFRED JOHN SCHWEPPLE, A.M., LL.B. ..........Dean of the School of Law
Commerce Hall

WILLIAM ELMER HENRY, A.M. .........................Dean of the Library School
Library

MILNOR ROBERTS, A.B. ...............................Dean of the College of Mines
Mines Laboratory

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 SUMMER QUARTER

HENRY ALFRED BURD, Ph.D. .........................Director
Education Hall

THE EXTENSION SERVICE

HARRY EDWIN SMITH, Ph.D. .........................Acting Director
Education Hall
THE UNIVERSITY FACULTY

Spencer, Matthew Lyle ...................... President of the University
Thomson, David .............................. Dean of Faculties
Padelford, Frederick Morgan ............... Assistant Dean of Faculties
Stevens, Edwin Bicknell .................. Secretary to the Faculty

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

In this list the names of the faculty are arranged in six groups—professors, associate professors, assistant professors, lecturers, instructors, and associates—followed by the names of the assistants and teaching fellows.

Appointments and promotions are listed on page 14. Appointments made after June, 1928, do not appear in this list.

FACULTY IN THE ORDER OF ACADEMIC SENIORITY

For alphabetical list with academic histories, see page 16.

PROFESSORS

Landes, Henry
Meany, Edmond Stephen
Ober, Caroline Haven
Kincaid, Trevor
Padelford, Frederick Morgan
Roberts, Milnor
Savery, William
Osborn, Frederick Arthur
Thomson, David
Johnson, Charles Willis
Frein, Pierre Joseph
Frye, Theodore Christian
Moritz, Robert Edouard
Magnusson, Carl Edward
Lantz, Harvey
Eastwood, Everett Owen
Henry, William Elmer
Hall, David Connolly
Gowen, Herbert Henry
Richardson, Oliver H.
Goodner, Ivan Wilbur
Glen, Irving Mackay
More, Charles Church
Benson, Henry Kreitzer
Weinzirl, John

Winkenwerder, Hugo
Parrington, Vernon Louis
Bolton, Frederick Elmer
Vickner, Edwin John
Raitt, Effie Isabel
Smith, Stevenson
*Bissett, Clark Prescott
Benham, Allen Rogers
Ayer, Leslie James
Cobb, John Nathan
Dehn, William Maurice
Woolston, Howard
Smith, George McPhail
Kirkland, Burt Persons
Gould, James Edward
Weaver, Charles Edwin
Umphrey, George Wallace
Worcester, John Locke
*Preston, Howard Hall
Randolph, Edgar Dunnington
Loew, Edgar Allen
Daniels, Joseph
Kirsten, Friedrich Kurt
Haggett, Winnifred Sunderlin
Cox, William Edward

*Absent on leave.
University of Washington

Cory, Herbert Ellsworth
Dakan, Carl Spencer
Wilson, George Samuel
Harris, Charles William
Martin, Charles Emanuel
Eldred, Wilfred
Winger, Roy Martin
Smith, Charles Wesley
Carpenter, Allen Fuller
Cox, Edward Godfrey
McKenzie, Roderick Duncan
Schwepppe, Alfred John
Olding, James Perdue
Thomas; Harlan
Sidey, Thomas Kay
McMahon, Edward
Winslow, Arthur Melvin
Tartar, Herman Vance
Burd, Henry Alfred
George, William Henry
Griffith, Dudley David

O'Bryan, Joseph Grattan
Coon, S. J.
Frame, Hugh Campbell
Nottelman, R. H.
Harvey, E. L.
McKenzie, Vernon
Rigg, George Burton
Rosen, Moritz
Venino, Albert Franz
Wood, Carl Paige
Skinner, Macy Milmore
Lynn, Eldin V.
Langenhan, Henry August
Guthrie, Edwin R.
Wilson, Hewitt
Leib, Karl E.
Orr, Frederick W.
Stuart, Graham
Tibbetts, Charles S.
Uhl, Willis Lemon
Blake, Ralph M.

ASSOCIATE PROFESSORS

Milliman, Loren Douglas
Patzer, Otto
Brakel, Henry Louis
Smith, Harry Edwin
Goggio, Charles
Isaacs, Walter
Thompson, Thomas Gordon
Jones, Robert William
Atkinson, Charles Raymond
Denny, Grace Goldena
May, Charles Culbertson
Anderson, Samuel Herbert
Grondal, Bror Leonard
Gross, Mary Emma
Guberlet, John Earl
McMahon, Theresa Schmid
Newenham, Frances Dickey
Harrison, Joseph Barlow

Jessup, John
Gavett, George I.
Lucas, Henry S.
Esper, Edwin A.
Renner, George T.
Stone, Edward N.
McCurdy, W. H.
Eckelman, Ernest Otto
Smith, E. Victor
Densmore, Harvey
MacNair, Harley F.
Hotson, John W.
Goodspeed, George E.
Williams, Curtis T.
DeVries, Louis P.
Gregory, Homer E.
Wilcox, Elgin Roscoe
Price, Maurice T.
Arbuthnot, James George

ASSISTANT PROFESSORS

Corey, Clarence Raymond
Helmlinge, Charles Louis
Neikirk, Lewis Irving
Collier, Ira Leonard
Van Ogle, Louise
Shuck, Gordon Russell
Bliss, Addie Jeanette
Schaller, Gilbert Simon
Dvorak, August
Hoffstadt, Rachel Emilie
Hughes, Glenn Arthur

Muhlenberg, Henry Clinton
Miller, Robert Cunningham
Greene, Royal
Goodrich, Forest Jackson
McIntyre, Harry John
Beuschlein, Warren Lord
Herrman, Arthur Phillip
Gwen, Lancelot Edward
Hayner, Norman Sylvester
Meredith, Evan Kirkpatrick
Pratt, Dudley
Rowntree, Jesse Irene

1For the year 1928-1929.
2Resigned.
3Absent on leave.
4For Appointments and Promotions, see page 14.
### University Faculty

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Lecturers</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Williams, Laurin Lyman</td>
<td>'Rivers, Elizabeth</td>
<td>Whittlesey, Walter Bell</td>
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<td>Warner, Frank Melville</td>
<td>'Wait, Bernice</td>
<td>Gillette, Alletta</td>
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<tr>
<td>Powell, Sargent</td>
<td>Langford, Cooper H.</td>
<td>Adams, Albert Porter</td>
</tr>
<tr>
<td>McMinn, Bryan Towne</td>
<td>Foster, Henry M.</td>
<td>Kirchner, George</td>
</tr>
<tr>
<td>Edmonds, Robert Harold G.</td>
<td>'Brownell, Mary M.</td>
<td>Rhodes, Helen</td>
</tr>
<tr>
<td>Hoard, Lisle George</td>
<td>Utterback, Clinton L.</td>
<td>2Sergev, Sergius I.</td>
</tr>
<tr>
<td>Smith, George Sherman</td>
<td>Hatch, M. H.</td>
<td>Chittenden, Hiram Martin Jr.</td>
</tr>
<tr>
<td>Crawford, Donald Russell</td>
<td>Ashley, Paul</td>
<td>Quainton, Cecil Eden</td>
</tr>
<tr>
<td>Miller, Alfred Lawrence</td>
<td>Stern, Bernhard J.</td>
<td>Lindblom, Roy Eric</td>
</tr>
<tr>
<td>'Cole, Kenneth Carey</td>
<td>Small, George W.</td>
<td>Eastman, Austin</td>
</tr>
<tr>
<td>Lawrence, Charles Wilson</td>
<td>McKay, George</td>
<td>5Cramlet, Clyde Myron</td>
</tr>
<tr>
<td>Griffin, Eldon</td>
<td>Benson, Edna</td>
<td>Lofgren, Frederick Valentine</td>
</tr>
<tr>
<td>Ballantine, John Perry</td>
<td>Mander, Linden A.</td>
<td>Bostwick, Irene Neilson</td>
</tr>
<tr>
<td>Hildebrand, Christian</td>
<td>Norris, Earl R.</td>
<td>Dobie, Edith</td>
</tr>
<tr>
<td>Zanstra, Herman</td>
<td>Brandstrom, Axel</td>
<td></td>
</tr>
</tbody>
</table>
Hulse, Granville G.                         Graves, L. Wallis
Ingram, W. H.                               Thraillkill, W. L.
Miller, Charles J.                           'Purdy, Henry L.
Mentzer, Phoebe E.                          'Applegate, L. N.
Rhodes, Fred L.                             'Bird, Winfred
Sanchez, Frederico                          'Snidow, Harriett
Windesheim, Karl A.                         'Simpson, Lurline
Weir, John                                  'Pearce, Richard J.
Wilson, Francis G.                          'Schultz, Leonard P.
Wilson, William                             'Jerbert, Arthur Rudolph
Wilkinson, Madge                            'Gunn, Elizabeth
'Schumacher, Elizabeth                      'Terrell, Mararet E.
'Gundlach, Ralph                            'Moritz, Harold K.
'Calhoun, Charles E.                        'Rowlands, T. McKee

ASSOCIATES

Worman, Eugenie                             Southwick, Charles
Radford, Ethel Sanderson                    'Fuller, Eugenie
Jones, Pamela Pearl                        'Adamson, Thelma
Kerrigan, Sylvia Finlay                     Ankele, Felice C.
Vickner, Bertha Almen                       Brodnax, Nancy Kate
Soule, Elizabeth                            Brown, Sara H.
Edmundson, Clarence                         Conway, John Ashley
Hamilton, Rachel Elizabeth                  Corbally, John E.
Bagshaw, Enoch                              Cappon, Alexander C.
Buchanan, Iva                               Cederstrom, Myole F.
Graves, Dorsett                             Foster, Frank K.
Lawson, Jane Sorrie                         Hathway, Marion
Bogardus, Alice Coloma                       Jacobs, Melville
Alfonso, Marie                               Jackson, Kirby
Putnam, Marguerite                          Leahy, Kathleen N.
Venino, Luella                              Lovejoy, Cecyl B.
Lynch, Clara Bell                            McConihe, Aimie
Sutton, Wayne Campbell                      Marick, Louis
Hall, Amy Violet                            Padelford, Morgan G.
Newberry, Kirsten Larsson                   Peterson, Sigurd H.
Wesner, Eleonora                            Phillips, Herbert
Mabon, Laura Edna                           Schertel, Max
Crawford, Margaret                          'Swingle, Ruth
Brown, Lois Eula                            Ulbrickson, Alvin
Jackson, Kirby                              Wood, Florence
'Lewis, Hunter Campbell                     Bauer, Hubert A.
Wagenknecht, Edward C.                      Blanchard, Fred
Spelman, Bart                               Cornu, Donald
Higgs, Paul                                 'Garcia, Eduardo C.
Hamack, Frank Hartmond                      'Gerdeman, Alice E.
Helich, Leone                               'Goodsell, Julia
Terzieff, Ottlie                            'Hansen, Bert B.
'Hall, Anne Elizabeth                       'Mark, Sara N.
Davies, Erma Nelson                         'Nix, Martha
'Schmid, Calvin                             'Pennington, Ruth
Martin, Marion Marguerite                   'Seeman, Albert L.
Ballaine, Genevieve Knight                  'Sheppard, Esther
'Lang, J. W.                                 'Sanderman, L. A.
Glover, Sheldon Latta

1For the year 1928-1929.
2Resigned.
3Absent on leave.
4For Appointments and Promotions, see page 14.
## ASSISTANTS FOR 1927-28

### Botany
- Angst, Ernest C., B.S.
- Wittrock, Gus L., M.A.
### Business Administration
- Calhoun, Charles E., B.A.
- Grant, Ruth A., B.B.A.
- Happ, Howell C., B.B.A.
- Johnson, Werner W., B.A.
- King, Robert, B.B.A.
- Mackenzie, Donald, M.B.A.
- Smitheram, Francis E., B.B.A.
- Swift, Helen, A.B.
- Wann, Arva, B.B.A.
### Dramatic Art
- Blanchard, Fred, B.A.
### English
- Atkinson, Dorothy F., B.A.
- Beal, Maud L., B.A.
- Burgess, Jennie Potgieter, B.A.
- Cooper, Isabel D., B.A.
- Mark, Sara Norris, B.A.
- Nix, Martha, M.A.
- Walters, Margaret C., M.A.
- Whickler, Harold W., B.A.
- Windhusen, Anne E., B.A.
### History
- Robe, Cecil L., B.A.
### Home Economics
- Davis, Martha, B.S.
- Jacobs, Winifred, B.S.
- McIntosh, Mildred, B.S.
### Music
- Bamford, Ruth, B.Mus.
- Burns, Nina, B.Mus.
### Physical Education for Men
- Jefferson, William
- Rickey, C. T.
### Physical Education for Women
- Cundiff, Velda, B.S.
- Duncan, Margaret, B.S.
### Psychology
- Hermans, Thomas, M.A.

## TEACHING FELLOWS FOR 1927-28

### Bacteriology
- Adams, Helen Elmira, B.A.
- Church, Ruth, B.S. in Ed.
- Gerdeman, Alice E., B.A.
- Stewart, Emma Jo, M.S.
- Thompson, Randall L., B.S.
- Reekie, Richard, B.S.
- Richards, Leon, B.S.
- Rising, Louis W., M.S.
### Business Administration
- Aitken, James, B.A.
- Hanson, Alice, B.A.
- Harward, Harold, B.S.
- Lewis, Russell, B.A.
- Lindahl, Martin, M.A.
- Purdy, Harry L., B.A.
- Wilson, Frank A., B.A.
### Chemistry
- Church, Anna E., M.S.
- Damrell, V. Richard, M.S.
- Danielson, Irvin, B.S.
- Evans, Lacey H., B.S.
- Ford, T. Foster, B.S.
- Hitchings, George H., B.S.
- Huffman, Eugene H., B.A.
- Kaufman, Gretchen, B.A.
- Marks, Graham W., M.A.
- Mitchell, Raymond L., B.A.
- Porter, Charles A., B.S.
- Salstrom, Edward John, B.S.
- Van Vleet, C. S., B.S.
- Walker, Margery K., B.S.
- Willson, Edward A., B.S.
### English
- Allen, Ralph K., B.A.
- Childs, Herbert E., B.A.
- Cornu, Elizabeth Weikel, B.A.
- Cutts, Cecelia, M.A.
- Ferrier, Gladys, B.A.
- Jaeger, Julius P., M.A.
- Jardine, Nan, B.A.
- Kirkham, Bernice, B.A.
- Kuhn, Bertha M., M.A.
- McClure, Willard, B.A.
- Norie, Mary Elizabeth, B.A.
- Pellegrini, Angelo, B.A.
- Richardson, Elizabeth, M.A.
- Robb, Marian S., B.A.
Robson, Wesley, B.A.
Stafford, John B., A.B.
Williams, Weldon, B.A.

Physics
Bleakney, William M., B.A.
Chapin, Daryl M., B.A.
Geer, C. Willard, B.S.
Larrick, Lewis, B.A.
Reinhart, Raymond, B.A.
Sanderman, L. A., B.S.

Physical Education for Men
Davis, Elwood, M.A.

Political Science
Brown, Mary C., B.A.
Dilley, Marjorie, B.A.
Warner, Kenneth, M.A.

Psychology
Barker, Gertrude, A.B.
Fricke, Gladys, B.A.
Morrill, Helen, B.A.

GRADUATE SCHOLARS FOR 1927-28

Bacteriology
Adams, Helen Elmira, B.A.
Church, Ruth, B.S. in Ed.
Gerdeman, Alice E., B.A.

Business Administration
Ballaine, Wesley C., B.A.
Bye, John, B.A.

Education
Belknap, Mae S., B.A.
Littlefield, Lena E., M.A.
Mahone, Lena, A.B.
Wolfe, Dall L., B.S.

History
Gowen, F. Joyce, B.A.
Ryan, Florence, B.A.
Tift, Lillian B., B.A.

Journalism
Frudenfeld, Mildred, B.A.

Oriental Studies
Thole, Marjorie, B.A.

English
Adams, Jane, A.B.
Christianson, Victor, M.A.
Norie, James L., B.A.
Ottenheimer, Albert, B.A.
Person, Henry A., B.A.
U'Renn, Dorothy, B.A.
Zillman, Lawrence, B.A.

Philosophy
Savery, Barnett, A.B.

Political Science
Newman, Wilbur R., B.S.

Psychology
Stevenson, Harold, B.A.
Wolfe, Dall, B.S.

Zoology
Meaker, Marian E., M.S.

APPOINTMENTS AND PROMOTIONS FOR 1928

Appointments

McKenzie, Vernon .................Dean of the School of Journalism
Uhl, Willis Lemon ..................Dean of the School of Education
Tibbetts, Charles S. ..............Visiting Professor of Business Administration
Chessex, Jean C. W. ..............Acting Assistant Professor of French
Groth, John H. ........................Assistant Professor of English
Rahskopf, Horace ..................Assistant Professor of English
Rivers, Elizabeth ..................Assistant Professor of Home Economics
Applegate, L. M. ..................Instructor in Electrical Engineering
Calhoun, Charles L. ..............Instructor in Business Administration
Graves, L. Wallis ..................Instructor in Business Administration
Pearce, Richard J ..................Instructor in Architecture
Purdy, Henry L ..................Instructor in Business Administration
Schultz, Leonard P ..................Instructor in Ichthyology
Promotions

Guthrie, Edwin R. .................................. Professor of Psychology
Langenhan, Henry A .................................. Professor of Pharmacy
Leib, Karl E .................................. Professor of Business Administration
Lynn, Eldon V .................................. Professor of Pharmacy
Orr, Frederick W .................................. Professor of English
Rigg, George B .................................. Professor of Botany
Rosen, Moritz .................................. Professor of Music
 Skinner, M. M .................................. Professor of Business Administration
Venino, A. F .................................. Professor of Music
Wilson, Hewitt .................................. Professor of Ceramics
Wood, Carl Paige .................................. Professor of Music
Densmore, Harvey .................................. Associate Professor of Greek
DeVries, Louis P .................................. Associate Professor of French
Goodspeed, George .................................. Professor of Music
Gregory, H. E .................................. Associate Professor of Business Administration
Hotson, John N .................................. Associate Professor of Botany
Leone, Maurice T .................................. Associate Professor of Sociology
Smith, E. Victor .................................. Associate Professor of Zoology
Wilcox, Elgin Roscoe .................................. Associate Professor of General Engineering
Williams, Curtis T .................................. Associate Professor of Education
DeVries, Mary Aid .................................. Assistant Professor of Physical Education
Foote, Hope Lucille .................................. Assistant Professor of Design
Garcia-Prada, Carlos .................................. Assistant Professor of Romanic Languages
Hawthorn, George E .................................. Assistant Professor of General Engineering
McGownd, Matilda Jane .................................. Assistant Professor of Physical Education
Mullemister, Hermance .................................. Assistant Professor of Mathematics
Van Horn, Robert B .................................. Assistant Professor of General Engineering
Winther, S. K .................................. Assistant Professor of English
Bird, Winfred .................................. Instructor in English
Gundlach, Ralph .................................. Instructor in Sociology
Simpson, Lurline .................................. Instructor in Romanic Languages
Snidow, Harriett .................................. Instructor in Pharmacy
Weir, John .................................. Instructor in General Engineering
Wilson, Francis Graham .................................. Instructor in Political Science
Adamson, Thelma .................................. Associate in Anthropology
Blanchard, Fred .................................. Associate in Dramatic Art
Clark, E. T .................................. Lecturer in Forestry
Cornu, Donald .................................. Associate in English
Gerdeman, Alice E .................................. Associate in Bacteriology
Goodsell, Julia .................................. Associate in Geology
Grant, Ruth .................................. Associate in Business Administration
Mark, Sara N .................................. Associate in English
Nix, Martha .................................. Associate in English
Pennington, Ruth .................................. Associate in Design

*First Appointment, Assistant Professor, 1927.
**First Appointment, Associate, 1927.
---Temporary Appointment.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer, Matthew Lyle</td>
<td>President of the University</td>
<td>A.B., Kentucky Wesleyan, 1908; A.M., 1904; Northwestern, 1905; Ph.D., Chicago, 1910; LL.D., Northwestern, 1928.</td>
</tr>
<tr>
<td>Adams, Albert Porter</td>
<td>Instructor in Music</td>
<td></td>
</tr>
<tr>
<td>Adamson, Thelma</td>
<td>Associate in Anthropology</td>
<td>B.A., Marietta College, 1923.</td>
</tr>
<tr>
<td>Alexander, James Lindsey</td>
<td>Assistant Professor of Forestry</td>
<td>B.Sc.F., Toronto, 1921.</td>
</tr>
<tr>
<td>Alden, Charles</td>
<td>Lecturer in Architecture</td>
<td>B.S., Massachusetts Institute of Technology, 1900.</td>
</tr>
<tr>
<td>Alfonso, Marie</td>
<td>Associate in Library Economy</td>
<td>A.B., Nebraska, 1913; B.L.S., Washington, 1921.</td>
</tr>
<tr>
<td>Ankele, Felice Charlotte</td>
<td>Associate in German</td>
<td>B.A., Washington, 1925; M.A., 1926.</td>
</tr>
<tr>
<td>Anderson, Samuel Herbert</td>
<td>Associate Professor of Physics</td>
<td>A.B., Park College, 1902; A.M., 1903; Ph.D., Illinois, 1912.</td>
</tr>
<tr>
<td>Arbuthnot, James George</td>
<td>Associate Professor and Director of Physical Education for Men</td>
<td>B.S., Kansas State College, 1904.</td>
</tr>
<tr>
<td>Ashley, Paul Pritchard</td>
<td>Assistant Professor of Business Administration</td>
<td>LL.B., Washington, 1925.</td>
</tr>
<tr>
<td>Atkinson, Charles Raymond</td>
<td>Associate Professor of Business Administration</td>
<td>A.B., George Washington, 1908; A.M., Columbia, 1910; Ph.D., 1911.</td>
</tr>
<tr>
<td>Ayer, Leslie James</td>
<td>Professor of Law</td>
<td>B.S., Upper Iowa, 1899; J.D., Chicago, 1906.</td>
</tr>
<tr>
<td>Ballantine, Genevieve Knight</td>
<td>Associate in Latin</td>
<td>A.B., Olivet College, 1897.</td>
</tr>
<tr>
<td>Ballantine, John Perry</td>
<td>Assistant Professor of Mathematics</td>
<td>A.B., Harvard, 1918; Ph.D., Chicago, 1928.</td>
</tr>
<tr>
<td>Bauer, Herbert A.</td>
<td>Associate in Geology</td>
<td>Graduate, Greifswald, Germany, 1921.</td>
</tr>
<tr>
<td>Beardsley, Arthur, Sydney</td>
<td>Lecturer on Law</td>
<td>LL.B., Washington, 1918; B.S., 1924; M.A., 1925; Ph.D., 1928.</td>
</tr>
<tr>
<td>Benham, Allen Rogers</td>
<td>Professor of English</td>
<td>A.B., Minnesota, 1900; A.M., 1901; Ph.D., Yale, 1905.</td>
</tr>
<tr>
<td>Benson, Edna</td>
<td>Assistant Professor of Design</td>
<td>B.A., Iowa, 1909; Diploma, Chicago Academy of Fine Arts, 1918; M.A., Columbia, 1923.</td>
</tr>
<tr>
<td>Benson, Henry Kreitzer</td>
<td>Professor of Chemical Engineering</td>
<td>A.B., Franklin and Marshall, 1890; A.M., 1902; D.Sc., 1926; Ph.D., Columbia, 1907.</td>
</tr>
</tbody>
</table>
Alphabetical List of the Faculty

Bergstrom, Theodore .................................. Instructor in Engineering
B.S. (E.E.), Washington, 1924.

Beuschlein, Warren Lord .................. Assistant Professor of Chemical Engineering
B.S. (Ch.E.), California Institute of Technology, 1920; M.S. (Ch.E.), Washington, 1926.

Bird, Winfred Wylam .............................. Instructor in English

Bishop, Omen .................................. Assistant Professor of Education
M.A., Iowa, 1922; Ph.D., 1924.

Bissell, Clark Prescott .......................... Professor of Law
A.B., Hobart College, 1896; LL.D., J ewitt College, 1898; LL.D., Minnesota, 1906; Litt.D., Lincoln Memorial University, 1926; LL.D., Knox, 1926.

Blake, Ralph Mason .................. Professor of Philosophy

Blanchard, Fred .................................. Associate in Dramatic Art

Bliss, Addie Jeanette .................. Assistant Professor of Home Economics

Bogardus, Alice Coleman .................. Associate in Music
B.B., Mills, 1913.

Bolton, Frederick Elmer .................. Professor of Education; Dean Emeritus
B.S., Wisconsin, 1883; M.S., 1896; Ph.D., Clark, 1898.

Bostwick, Irene Neilson .................. Instructor in Music

Brakel, Henry Louis .................. Associate Professor of Engineering Physics
A.B., Olivet, 1902; M.A., Washington, 1905; Ph.D., Cornell, 1912.

Brandstrom, Axel John Felix .................. Assistant Professor of Forestry
B.S.F., Washington, 1919.

Brodnax, Nancy Kate .................. Associate in Home Economics

Brown, Lois Eula .................. Associate in English

Brown, Sara Harriett .................. Associate in Philosophy

Brownell, Mary .................. Assistant Professor of Physical Education
B.A., Wisconsin, 1924; M.A., 1926.

Buchanan, Iva .................. Associate in History

Buck, Helen Marian .................. Instructor in Design
California (Southern Branch); California.

Burd, Henry Alfred .................. Professor of Business Administration; Director of Summer School

Burdon, Minnie Bell .................. Lecturer on Hygiene for Women
M.D., Oregon, 1903.

Calhoun, Charles E. .................. Instructor in Business Administration

Cappon, Alexander C. .................. Associate in English
P.L.B., Chicago, 1926; M.A., 1926.

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

Cederstrom, Moyle F .................. Associate in English
B.A., Minnesota, 1928; M.A., 1927.
University of Washington

Chessex, Jean Charles William......Acting Assistant Professor of Romanic Languages
B.A., Lausanne, 1923; M.A., 1925.

Chittenden, Hiram Martin................Instructor in Engineering
B.S. (C.E.), Washington, 1929.

Christian, Byron Hunter................Instructor in Journalism

Clark, Elias Treat..................Lecturer on Forestry
Ph.B., Yale, 1907; M.F., 1908.

Cobb, John Nathan...........Professor of Fisheries; Dean of the College of Fisheries

Cole, Kenneth Carey..................Assistant Professor of Political Science
B.Litt., St. John's College, Oxford, 1924.

Collier, Ira Leonard..................Assistant Professor of Civil Engineering
B.S. (C.E.), Washington, 1913; C.E., 1917.

Conway, John Ashby..............Associate in Dramatic Art
B.A., Carnegie Institute of Technology, 1927.

Coon, Shirley Jay................Professor of Business Administration
B.A., Beloit College, 1909; M.A., Ohio State, 1915; Ph.D., Chicago, 1926.

Corbally, John E...........Associate in Education

Corey, Clarence Raymond...........Assistant Professor of Mining and Metallurgy

Cornu, Donald................Associate in English
LL.B., Washington, 1922; M.A., 1926; Ph.D., 1928.

Cory, Herbert Ellsworth............Professor of Liberal Arts
A.B., Brown, 1908; Ph.D., Harvard, 1910.

Cox, Edward Godfrey...........Professor of English
A.B., Wabash, 1899; A.M., Cornell, 1901; Ph.D., 1906.

Cox, William Edward........Professor of Business Administration; Dean of the College of Business Administration

Cramlet, Clyde Myron.................Instructor in Mathematics
A.B., Walla Walla College, 1915; M.S., Washington, 1920; Ph.D., 1926.

Crawford, Donald Russell.........Assistant Professor of Fisheries
B.S., Washington, 1922; M.S., 1926.

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

Creer, Leland Hargrave...........Assistant Professor of History
A.B., Utah, 1916; A.M., 1928; Ph.D., California, 1929.

Dahlin, Ebba......................Instructor in History

Dakan, Carl Spencer...........Professor of Business Administration
B.S., Missouri, 1909.

Daniels, Joseph...............Professor of Mining Engineering and Metallurgy
B.S., Massachusetts Institute of Technology, 1909; M.S., Lehigh, 1909.

Davis, Erma Emmaline Nelson........Associate in History
B.A., University of Denver, 1918; M.A., Utah, 1924.

Davis, Pearce Crane...............Lecturer in Accounting
C.P.A., 1914
Dehn, William Maurice. Professor of Organic Chemistry
A.B., Hope, 1893; A.M., 1896; Ph.D., Illinois, 1903.

Denny, Grace Goldena. Associate Professor of Home Economics
A.B., Nebraska, 1907; A.M., Columbia, 1919.

Densmore, Harvey Bruce. Associate Professor of Greek
B.A., Oxford, 1907.

deRohan, Frederick J., Major Infantry. Assistant Professor of Military
Science and Tactics

De Vries, Louis Peter. Associate Professor of Romanic Languages
A.M., Wisconsin, 1911; Ph.D., 1913.

De Vries, Mary Aid. Assistant Professor of Physical Education

Dobie, Edith. Instructor in History
A.B., Syracuse, 1914; M.A., Chicago, 1922; Ph.D., Stanford, 1925.

Dodd, Joseph Paul. Instructor in Civil Engineering

Draper, Edgar Marion. Assistant Professor of Education

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

Dresslar, Martha Estella. Assistant Professor of Home Economics
B.A., Southern California, 1918; B.S., Washington, 1917; M.S., Columbia, 1918.

Dvorak, August. Assistant Professor of Education
A.B., Minnesota, 1920; Ph.D., 1923.

Eastman, Austin Vitruvius. Instructor in Electrical Engineering
B.S. (E.E.), Washington, 1922.

Eastman, Frederick Scoville. Instructor in General Engineering
B.S. (E.E.), Washington, 1925.

Eastwood, Everett Owen. Professor of Mechanical Engineering
C.E., Virginia, 1898; A.B., 1897; A.M., 1899; S.B., Massachusetts Institute
of Technology, 1902.

Eby, Edwin Harold. Instructor in English
Ph.B., Chicago, 1929; Ph.D., Washington, 1927.

Eckelman, Ernest Otto. Associate Professor of German
A.B., Northwestern (Watertown, Wis.), 1897; B.L., Wisconsin, 1898;
Ph.D., Heidelberg, 1898.

Edmonds, Robert Harold Gray. Assistant Professor of Mechanical
Engineering
B.S., Whitman, 1915; B.S. (M.E.), Washington, 1922; M.S. (M.E.), 1926.

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

Eldred, Wilfred. Professor of Business Administration

Esper, Erwin Allen. Associate Professor of Psychology
B.A., Ohio State, 1917; M.A., 1920; Ph.D., 1923.

Ethel, Garland Oral. Instructor in English

Farquharson, Frederick Burt. Assistant Professor of General Engineering
B.S., Washington, 1923.
Foisie, Frank P. .........................Lecturer in Business Administration
B.S., Harvard, 1912.

Foote, Ernest A., Lieutenant U.S. Navy ....Assistant Professor of Naval
Science and Tactics
Graduate, U.S. Naval Academy, 1918.

Foote, Hope Lucile. ..................Assistant Professor of Interior Design

Foster, Frank K. ......................Associate in Education

Foster, Henry Melville ............Assistant Professor and Director of Physical
Education for Men
B.S., Oregon, 1924; M.A., Columbia, 1926.

Frame, Hugh Campbell ................Professor of Business Administration

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

Frye, Theodore Christian ...............Professor of Botany
B.S., Illinois, 1904; Ph.D., Chicago, 1902.

Garcia-Prada, Carlos ..................Assistant Professor of Spanish
A.B., Colegio del Rosario, 1918; M.A., Michigan, 1924.

Garcia, Eduardo C. ...................Associate in Spanish

Gavett, George Irving ..................Associate Professor of Mathematics
B.S. (C.E.), Michigan, 1888.

George, William Henry .................Professor of Political Science

Gerdeman, Alice E. ..................Associate in Bacteriology
B.A., Central Wesleyan College, 1922.

Gillette, Alletta ......................Extension Instructor in English

Glen, Irving Mackey .. Professor of Music; Dean of the College of Fine Arts
A.B., Oregon, 1894; A.M., 1897.

Glover, Sheldon Latta ..................Associate in Geology
B.S., Washington, 1910; M.S., 1922.

Goggio, Charles ......................Associate Professor of Romanic Languages

Goodner, Ivan Wilbur ..................Professor of Law
LL.B., Nebraska, 1887.

Goodrich, Forest Jackson .........Assistant Professor of Pharmacy and Materia
Medica
Ph.C., Washington, 1913; B.S., 1914; M.S., 1917; Ph.D., 1928.

Goodsell, Julia ......................Associate in Geology
B.S., Washington, 1927.

Goodspeed, George Edward, Jr ..........Associate Professor of Geology
B.S. (Min.E.), Massachusetts Institute of Technology, 1810.

Gould, James Edward .................Professor of Maritime Commerce

Gowen, Herbert Henry ..................Professor of Oriental Studies
St. Augustine's College (Canterbury); D.D., Whitman College, 1912.
Alphabetical List of the Faculty

Gowen, Lancelot
Assistant Professor of Architecture
A.B., California, 1916; A.M. (Arch.), 1921.

Grant, Ruth
Instructor in Business Administration

Graves, Dorset
Associate in Physical Education
Missouri.

Graves, L. Wallis
Instructor in Business Administration

Greene, Royal Kemp, Major, C.A.C.
Assistant Professor of Military Science and Tactics
Graduate, U.S. Military Academy, 1907.

Gregory, Homer Ewart
Associate Professor of Business Administration

Griffin, Eldon
Assistant Professor of Oriental Studies

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

Gromer, James G. B.
Professor of Naval Science and Tactics
Graduate, U.S. Naval Academy, 1911.

Grondal, Bror Leonard
Associate Professor of Forestry
A.B., Bethany (Kansas), 1910; M.S.F., Washington, 1918.

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

Groth, John Henry
Assistant Professor of English

Guberlet, John Earl
Associate Professor of Zoology

Gundlach, Ralph
Instructor in Psychology

Gunn, Elizabeth
Assistant Physician and Instructor in Hygiene
B.S., Washington, 1923; M.D., Oregon, 1928.

Guthrie, Edwin Ray
Professor of Psychology
A.B., Nebraska, 1907; A.M., 1910; Ph.D., Pennsylvania, 1912.

Haggett, Winnifred Sunderland
Dean of Women
A.B., Olivet, 1897; A.M., Michigan, 1898.

Hall, Amy Violet
Associate in English

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

Hamack, Frank Hartmond
Associate in Business Administration
LL.B., Georgetown, 1916.

Hamilton, James Baker
Assistant Professor of Civil Engineering
B.S. (C.E.), Washington, 1924; C.E., 1927.

Hamilton, Rachel Elizabeth
Associate in French

Hansen, Bert B
Associate in Dramatic Art
A.B., South Dakota, 1920.
Harris, Charles William. Professor of Hydraulic Engineering B.S. (C.E.), Washington, 1903; C.E., Cornell, 1905.


Hatch, Melville H. Assistant Professor of Zoology B.A., Michigan, 1919; M.A., 1921; Ph.D., 1925.


Hauan, Merlin. Lecturer in Civil Engineering B.S. (E.B.), Washington, 1925.

Hawthorn, George Edward. Assistant Professor of General Engineering B.S. (C.E.), Washington, 1915; C.E., 1926.

Hayner, Norman Sylvester. Assistant Professor of Sociology B.A., Washington, 1920; M.A., Chicago, 1921; Ph.D., 1923.

Helmich, Leone. Associate in Physical Education for Women B.S., Washington, 1922.

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

Henry, William Elmer. Librarian; Dean of the Library School A.B., Indiana, 1801; A.M., 1802.


Hildebrand, Christian. First Lieutenant, Infantry. Assistant Professor of Military Science Graduate, U.S. Military Academy, 1919; Basic Course, Infantry School, 1920.

Hill, Raymond L. Assistant Professor of Fine Arts Rhode Island School of Design, 1918; California School of Fine Arts, 1915.

Hoard, George Lisle. Assistant Professor of Electrical Engineering B.S. (E.E.), Washington, 1917; M.S. (E.E.), 1926.

Hoffstadt, Rachel Emilie. Assistant Professor of Bacteriology B.S., Hanover, 1908; M.S., Chicago, 1913; Ph.D., 1915; D.Sc., Johns Hopkins, 1921.

Hotson, John William. Associate Professor of Botany A.B., McMaster, 1901; A.M., 1902; Ph.D., Harvard, 1913.


Hulse, Granvyl G. Instructor in Political Science B.A., California, 1925; M.A., Harvard, 1926.

Ingram, Wyatt H. Instructor in Mathematics B.S., Chicago, 1917; M.S., Massachusetts Institute of Technology, 1926.


Alphabetical List of the Faculty

Jarvis, Norman Donald. Instructor in Fisheries
B.S., Washington, 1924; M.S., 1926.

Jerbert, Arthur Rudolph. Instructor in Mathematics
B.S., Washington, 1916; M.S., 1923; Ph.D., 1928.

Jessup, John. Acting Associate Professor of Education
A.B., Earlham College, 1920; M.A., Iowa, 1924.

Johnson, Charles Willis. Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy
Ph.C., Michigan, 1896; B.S., 1900; Ph.D., 1908.

Jones, Pamela Pearl. Associate in English
A.B., Iowa, 1906; A.M., 1908.

Jones, Robert William. Associate Professor of Journalism
A.B., Missouri, 1906; LL.B., 1913; A.M., South Dakota, 1918.

Kennedy, Fred Washington. Director of the Journalism Laboratories

Kerrigan, Sylvia Finlay. Associate in English

Kincaid, Trevor. Professor of Zoology
B.S., Washington, 1899; M.A., 1901.

Kirchner, George. Instructor in Music
Leipzig.

Kirkland, Burt Persons. Professor of Forestry
A.B., Cornell, 1905.

Kirsten, Friedrich Kurt. Professor of Electrical Engineering
B.S., Washington, 1909; B.E., 1914.

Landes, Henry. Professor of Geology and Mineralogy; Dean of the College of Science
A.B., Indiana, 1892; A.B., Harvard, 1892; A.M., 1892.

Lang, J. W. Associate in Engineering
B.S. (Ch.E.), Washington, 1928.

Langenhan, Henry August. Professor of Pharmacy
Ph.G., Illinois, 1908; Ph.C., 1909; B.S., Wisconsin, 1913; M.S., 1916; Ph.D., 1918.

Langford, Cooper Harold. Assistant Professor of Philosophy
B.A., Clark, 1919; Ph.D., Harvard, 1924.

Lantz, Harvey. Professor of Law
Ph.B., DePauw, 1888; A.M., 1891; LL.B., Kent Law School, 1893.

Lawrence, Charles Wilson. Assistant Professor of Music
B.Mus., Oberlin, 1918.

Lawson, Jane Sorrie. Associate in English
A.M., St. Andrews (Scotland), 1908.

Leahy, Kathleen M. Associate in Nursing Education
B.A., Oregon, 1926.

Leib, Karl Elias. Professor of Business Administration
A.B., Stanford, 1918; J.D., 1923.

Lindblom, Roy Eric. Instructor in Electrical Engineering
B.S. (E.E.), Washington, 1922.

Loew, Edgar Allen. Professor of Electrical Engineering

Lofgren, Frederick Valentine. Instructor in Pharmacy
B.S., Washington, 1924; M.S., 1925.
Lovejoy, Albert. Acting Assistant Professor of Dramatic Art
B.A., Emerson College of Oratory, 1924.

Lovejoy, Cecyl B. Associate in Dramatic Art

Lucas, Henry Stephen. Associate Professor of History
A.B., Oliver, 1918; A.M., Indiana, 1919; Ph.D., Michigan, 1921.

Luce, Dean, First Lieutenant, C.A.C. Assistant Professor of Military Science and Tactics
Graduate, U.S. Military Academy, 1918.

Lynch, Clara Belle. Associate in Music

Lynn, Eldin Verne. Professor of Pharmacology and Chemistry

McConahey, James. Lecturer on Business Administration

McConihe, Aimee. Associate in Dramatic Art

McCurdy, William Harold. Associate Professor of Physics
B.A., Dalhousie, 1921; M.A., 1922; Ph.D., Princeton, 1925.

McGownd, Matilda Jane. Assistant Professor of Physical Education

McIntyre, Harry John. Assistant Professor of Mechanical Engineering

McKay, George F. Assistant Professor of Music
B.Mus., Rochester, 1928.

McKenzie, R. D. Professor of Sociology
B.A., Manitoba, 1912; Ph.D., Chicago, 1920.

McKenzie, Vernon. Professor of Journalism; Dean of the School of Journalism

McMahon, Edward. Professor of American History

McMahon, Theresa Schmid. Associate Professor of Economics

McMinn, Bryan Towne. Assistant Professor of Mechanical Engineering
B.S., Oregon Agricultural College, 1918; M.S. (M.E.), Washington, 1926.

Mabo, Laura Edna. Associate in Music
Graduate, Conservatory of Music, Carleton College, 1911.

Magnusson, Carl Edward. Professor of Electrical Engineering and Dean of the College of Engineering
B.E.E., Minnesota, 1896; M.S., 1897; E.E., 1905; Ph.D., Wisconsin, 1909.

Magnusson, Gustaf Alfred. Lecturer on Clinic Diagnosis
A.B., New Mexico, 1903; M.D., Minnesota, 1908.

Mander, Linden A. Assistant Professor of Political Science
M.A., Adelaide, 1921.

Marick, Louis. Associate in Physics
M.E., Montana School of Mines, 1925; M.S., Washington, 1927.

Mark, Sara Norris. Associate in English
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin, Charles Emanuel</td>
<td>Professor of Political Science</td>
<td>B.A., California, 1914; A.M., 1915; Ph.D., Columbia, 1917.</td>
</tr>
<tr>
<td>Martin, Marion Marguerite</td>
<td>Associate in Physical Education for Women</td>
<td>B.S., Columbia, 1928.</td>
</tr>
<tr>
<td>Matthews, Harry Thomas</td>
<td>Professor of Military Science and Tactics</td>
<td>LL.B., Washington University, 1888.</td>
</tr>
<tr>
<td>May, Charles Culbertson</td>
<td>Associate Professor of Civil Engineering and Architecture</td>
<td>B.S. (C.E.), Washington, 1910.</td>
</tr>
<tr>
<td>Meany, Edmond Stephen</td>
<td>Professor of History</td>
<td>B.S., Washington, 1888; M.S., 1899; M.L., Wisconsin, 1901; LL.D., College of Puget Sound, 1926.</td>
</tr>
<tr>
<td>Meisnest, Frederick William</td>
<td>Lecturer in German</td>
<td>B.S., Wisconsin, 1898; Ph.D., 1904.</td>
</tr>
<tr>
<td>Mentzer, Phoebe E.</td>
<td>Instructor in Zoology</td>
<td>B.S., Iowa State College, 1928; M.S., 1925.</td>
</tr>
<tr>
<td>Meredith, Evan Kirkpatrick</td>
<td>Assistant Professor of Military Science</td>
<td>Stanford; Washington.</td>
</tr>
<tr>
<td>Miller, Alfred Lawrence</td>
<td>Assistant Professor of Civil Engineering</td>
<td>B.S. (C.E.), Washington, 1920; C.E., 1926.</td>
</tr>
<tr>
<td>Miller, John William</td>
<td>Assistant Professor of Engineering</td>
<td>B.S. (C.E.), Nebraska, 1926; C.E., 1928.</td>
</tr>
<tr>
<td>Miller, Robert Cunningham</td>
<td>Assistant Professor of Zoology</td>
<td>A.B., Greenville, 1920; A.M., California, 1921; Ph.D., 1923.</td>
</tr>
<tr>
<td>Milliman, Loren Douglas</td>
<td>Associate Professor of English</td>
<td>A.B., Michigan, 1890.</td>
</tr>
<tr>
<td>More, Charles Church</td>
<td>Professor of Structural Engineering</td>
<td>C.E., Lafayette, 1898; M.C.E., Cornell, 1899; M.S., Lafayette, 1901.</td>
</tr>
<tr>
<td>Moritz, Harold Kennedy</td>
<td>Instructor in General Engineering</td>
<td>B.S., Mass. Institute of Technology, 1921.</td>
</tr>
<tr>
<td>Moritz, Robert Edouard</td>
<td>Professor of Mathematics</td>
<td>B.S., Hastings, 1892; Ph.M., Chicago, 1898; Ph.D., Nebraska, 1901; Ph.N.D., Strassburg, 1902.</td>
</tr>
<tr>
<td>Muhlenberg, Henry Clinton Kress</td>
<td>Assistant Professor of Military Science and Tactics</td>
<td>Graduate, U.S. Military Academy, 1908; Graduate, Command and General Staff School, Fort Leavenworth, 1924.</td>
</tr>
<tr>
<td>Mullemester, Hermance</td>
<td>Assistant Professor of Mathematics</td>
<td>Phl.Cand., Royal University of Utrecht, Holland, 1910; Ph.D., 1913.</td>
</tr>
<tr>
<td>Neikirk, Lewis Irving</td>
<td>Assistant Professor of Mathematics</td>
<td>B.S., Colorado, 1898; M.S., 1901; Ph.D., Pennsylvania, 1903.</td>
</tr>
<tr>
<td>Newberry, Kirsten Larssen</td>
<td>Associate in Physics</td>
<td>B.S., Washington, 1919; M.S., 1924.</td>
</tr>
<tr>
<td>Newenham, Frances Dickey</td>
<td>Associate Professor of Music</td>
<td>Graduate, Iowa State Teachers' College, 1901; B.S., Columbia, 1912; A.M., 1913.</td>
</tr>
</tbody>
</table>
University of Washington

Nix, Martha J ........................................ Associate in English

Nottelmann, R. H....................... Professor of Law
B.A., Monmouth College, 1912; M.A., Illinois, 1918; LL.B., Yale, 1922.

Norris, Earl R....................... Assistant Professor of Chemistry
B.A., Montana State College, 1919; Ph.D., Columbia, 1924.

Ober, Caroline Haven .................... Professor of Spanish
A.B., Jesuit College (Denver), 1888.

O'Bryan, Joseph Grattan .................... Professor of Law
A.B., Washington, 1922.

Odling, James Perdue, Commander, U.S.N........ Professor of Naval Science and Tactics
Graduate, U.S. Naval Academy, 1906.

Osborn, Frederick Arthur .................... Professor of Physics
Ph.B., Michigan, 1896; Ph.D., 1907.

Osseward, Cornelius ....................... Lecturer on Pharmacy
Ph.G., Columbia, 1892; Ph.C., Northwestern, 1896.

Padelford, Frederick Morgan ........ Professor of English; Dean of the Graduate School; Assistant Dean of Faculties
A.B., Colby, 1896; A.M., 1899; Ph.D., Yale, 1899.

Padelford, Morgan G........ Associate in Painting, Sculpture and Design

Parrington, Vernon Louis ........ Professor of English
A.B., Harvard, 1898; A.H., Emporia, 1895.

Parks, Clarence Thomas .................. Assistant Professor of Fisheries
B.S., Washington, 1924; M.S., 1925.

Patterson, Ambrose ..................... Assistant Professor of Fine Arts
Melbourne National Gallery, Victoria, Australia; Julien, Colorosi and Deloche Academies, Europe.

Patzer, Otto ......................... Associate Professor of French
B.A., Wisconsin, 1892; M.A., 1899; Ph.D., 1907.

Payne, Blanche ................ Assistant Professor of Home Economics

Pearce, Richard J .................... Instructor in Architecture

Pennington, Ruth .................. Associate in Painting, Sculpture and Design

Peterson, Sigurd H ........ Associate in English
B.A., Minnesota, 1910.

Phillips, Herbert ..................... Associate in Philosophy

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

Powell, Sargent ................... Assistant Professor of Chemistry

Pratt, Dudley ................ Assistant Professor of Fine Arts
A.B., Yale, 1910.
Alphabetical List of the Faculty

Preston, Howard Hall. Professor of Business Administration
B.S., Coe, 1911; A.M., Iowa, 1914; Ph.D., 1920.

Priest, Harold Ragan, Captain, Infantry. Assistant Professor of Military Science and Tactics
Washington.

Price, Maurice Thomas. Associate Professor of Sociology
B.A., Chicago, 1910; Diploma, Rochester Theological Seminary, 1913; M.A., Chicago, 1914; Ph.D., 1924.

Purdy, Harry L. Instructor in Business Administration

Putnam, Marguerite. Associate in Library Science

Quainton, Cecil Eden. Instructor in History
B.A., Manitoba, 1918; B.A., Cambridge, 1924.

Radford, Ethel Sanderson. Associate in Chemistry
A.M., McGill, 1895.

Rahskopf, Horace. Assistant Professor of English
M.A., Iowa, 1927.

Raitt, Effie Isabel. Professor of Home Economics
B.S., Columbia, 1912; A.M., 1919.

Randolph, Edgar Dunnington. Professor of Education
Graduate, Eastern Illinois State Normal School, 1905; A.B., Denver, 1911; A.M., Columbia, 1915; Ph.D., 1922.

Read, William Merritt. Assistant Professor of Classical Languages
B.A., DePauw, 1923; M.A., 1924; Ph.D., Michigan, 1926.

Renner, George Thomas, Jr. Associate Professor of Geography
B.A., Cornell, 1922; M.A., Columbia, 1924; Ph.D., 1927.

Rhodes, Fred Harold Jr. Instructor in Engineering
B.S. (M.E.), Washington, 1926; B.S. (C.E.), 1926.

Rhodes, Helen Nelson. Instructor in Design
National Academy of Design; Columbia; B.A., Washington, 1927.

Rice, Paul Hildreth. Lieutenant Commander U.S.N. Assistant Professor of Naval Science and Tactics
Graduate, U.S. Naval Academy, 1906.

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

Rigg, George Burton. Professor of Botany

Rivers, Elizabeth Anne. Assistant Professor of Home Economics
B.S., Minnesota, 1910; M.A., Columbia, 1927.

Roberts, Milnor. Professor of Mining Engineering and Metallurgy and Dean of the College of Mines
A.B., Stanford, 1890.

Robertson, James Postlewait. Lecturer on Accounting
C.P.A.

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

Rowlands, T. McKee. Instructor in General Engineering

Rowntree, Jessie Irene. Assistant Professor of Home Economics
B.S., Wisconsin, 1918; M.S., Chicago, 1920.
Sanchez, Frederic ........................................ Instructor in Spanish
                     B.A., Michigan, 1928; M.A., 1928.
 Sanderman, L. A. ........................................ Associate in Physics
                      B.S., Union College, 1928.
 Savery, William ......................................... Professor of Philosophy
 Schaller, Gilbert Simon ................................. Assistant Professor of Shop Engineering
 Schertel, Max ............................................ Associate in German
 Schumacher, Elizabeth ................................... Instructor in Music
                     B.M., Washington, 1891.
 Schwegge, Alfred John ................................... Professor of Law and Dean of the
                      School of Law
 Seeman, Albert L ........................................ Associate in Geology
                     A.B., Morningside, 1921; M.B.A., Northwestern, 1922.
 Sheppard, Esther ......................................... Associate in English
 Shuck, Gordon Russell .................................. Assistant Professor of Electrical Engineering
                      B.E., Minnesota, 1906.
 Sidey, Thomas Kay ........................................ Professor of Latin and Greek
                     B.A., Toronto, 1891; Ph.D., Chicago, 1900.
 Simpson, Lurline Violet .................................. Instructor in French
 Sivertz, Victorian ........................................ Instructor in Chemistry
                     B.S., Washington, 1922; M.S., West Virginia, 1924; Ph.D., McGill, 1926.
 Skinner, Macy Milmore ................................... Professor of Business Administration
 Small, George William .................................. Assistant Professor of English
                     B.A., Tennessee, 1915; M.A., Johns Hopkins, 1921; Ph.D., 1923; B.Litt.,
 Sergeyev, Sergius I ...................................... Instructor in Engineering
                     B.S. (M.E.), Washington, 1926.
 Smith, Charles Wesley .................................. Reference Librarian and Professor of
                      Library Science
                     A.B., Illinois, 1903; B.L.S., 1905.
 Smith, Eli Victor .......................................... Associate Professor of Zoology
 Smith, Frederick Chamley ................................ Instructor in Engineering
                     B.S. (C.E.), Washington, 1926.
 Smith, George McPhail .................................... Professor of Inorganic Chemistry
                     B.S., Vanderbilt, 1900; Ph.D., Freiburg, 1903.
 Smith, George Sherman ................................. Assistant Professor of Electrical Engineering
 Smith, Harry Edwin ...................................... Associate Professor of Business Administration;
                      Acting Director of the Extension Service
                     A.B., DePauw, 1906; Ph.D., Cornell, 1912.
Alphabetical List of the Faculty

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

Snidow, Harriet Vivian ............. *Instructor in Pharmacy*
Ph.G., B.S., Oregon Agricultural College, 1923; M.S., Washington, 1925.

Soule, Elizabeth .................. *Associate in Nursing and Public Health Graduate, Malden, Massachusetts, Hospital School of Nursing, 1907; B.A., Washington, 1926.*

Southwick, Charles Ulysses .......... *Associate in French*

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

Stone, Edward Noble .................. *Associate Professor of Classical Languages*
A.B., Olivet College, 1891; A.M., 1893.

Stern, Bernhard J .................. *Assistant Professor of Sociology*
B.A., Cincinnati, 1918; M.A., 1917; Ph.D., Columbia, 1927.

Stuart, Graham Henry .................. *Visiting Professor of Political Science*
B.A., Western Reserve, 1908; M.A., Wisconsin, 1918; Ph.D., 1919.

Sutton, Wayne Campbell ............. *Associate in Physical Education*

Swingle, Ruth .................. *Associate in Bacteriology*
B.S., Montana State College, 1926; M.S., Washington, 1927.

Tartar, Herman Vance .................. *Professor of Chemistry*
B.S., Oregon Agricultural College, 1902; Ph.D., Chicago, 1920.

Terzieff, Ottoline .................. *Associate in German*

Terrell, Margaret Elma .................. *Instructor in Home Economics; Director of Dining Halls and Dormitories*
A.B., Penn College, 1923; M.A., Chicago, 1921.

Thomas, Harlan .................. *Professor of Architecture*
B.S., State Agricultural College of Colorado, 1894.

Thompson, Chloe Stevens .................. *Circulation Librarian*

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

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

Thrailkill, William Lubrecht ............. *Instructor in Engineering*
B.S., Washington, 1927.

Tibbetts, Charles S .................. *Visiting Professor of Business Administration*

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

Uhl, Willis Lemon .................. *Professor of Education; Dean of the School of Education*
B.A., Northwestern, 1911; Ph.D., Chicago, 1921.

Ulbrickson, Alvin .................. *Associate in Physical Education for Men*

Umphrey, George Wallace .................. *Professor of Romanic Languages*
Utterback, Clinton Louis...............Assistant Professor of Physics
B.S., Purdue, 1908; M.S., Washington, 1918; Ph.D., Wisconsin, 1926.

Van de Walker, Frank Chester.....Instructor in Business Administration

Van Horn, Robert...............Assistant Professor of Civil Engineering
B.S. (C.E.), Washington, 1910; C.E., 1926.

Van Ogle, Louise..................Assistant Professor of Music
Theoretical Work, Dr. Bridge, Chester, England; Richter, Leipzig; Piano, Godowsky, Berlin; Lhevinne, Berlin; Harold Bauer, Paris.

Venino, Albert Franz................Professor of Music
New York Conservatory of Music; Pupil of Leschetizky.

Venino, Luella........................Associate in Music
Leschetizky.

Vickner, Bertha Almen...............Associate in English

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

Wade, Arthur E...............Lecturer in Home Economics
B.S., Cornell College, Iowa, 1902; M.D., Sioux City College of Medicine, 1906.

Wagenknecht, Edward Charles........Associate in English
B.T., Union Theological College, 1921; Ph.B., Chicago, 1923; M.A., 1924.

Wait, Bernice Cornelia..Substitute Assistant Professor of Home Economics
B.S., Mckendree College, 1914; M.S., Illinois, 1917.

Wait, Wallace Theodore............Associate in Education

Ware, James Roland..............Instructor in Classical Languages

Warner, Frank Melville..............Assistant Professor of Engineering
B.S. (M.E.), Wisconsin, 1907.

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

Weinzirl, John..................Professor of Bacteriology
B.S., Wisconsin, 1896; M.S., 1898; Ph.D., 1900; Dr.F.E., Harvard, 1918.

Weir, John..................Instructor in Engineering
B.S. (E.E.), Washington, 1925.

Wesner, Elenora..................Associate in German

Whittlesey, Walter Bell..............Instructor in French

Wilcox, Elgin Roscoe............Associate Professor of General Engineering
B.S., Washington, 1915; Met. E., 1919.

Wilkinson, Madge Watson...........Instructor in Psychology; Assistant Director of Gatsert Foundation
B.A., Washington, 1918; M.S., 1921; Ph.D., 1927.

Williams, Curtis Talmadge........Associate Professor of Education
A.B., Kansas State Normal, 1913; A.M., Clark, 1914; Ph.D., 1917.

Williams, Laurin Lyman, Captain, Infantry........Assistant Professor of Military Science
A.B., Yale, 1917; Graduate, Basic Course, Infantry School, 1921.
Wilson, Francis G..............................Instructor in Political Science
  B.A., Texas, 1923; M.A., 1924; Ph.D., 1928.

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

Wilson, Hewitt..................................Professor of Ceramics
  Cer.Eng., Ohio State University, 1913.

Wilson, William Charles Eade....................Instructor in Spanish

Windesheim, Karl A............................Professor in English

Winger, Roy Martin............................Professor of Mathematics
  A.B., Baker, 1906; Ph.D., Johns Hopkins, 1912.

Winkenwerder, Hugo............................Professor of Forestry and Dean of the
  College of Forestry
  B.S., Wisconsin, 1902; M.F., Yale, 1907.

Winslow, Arthur Melvin.......................Professor of Mechanical Engineering
  Ph.B., Brown, 1903; B.S., Massachusetts Institute of Technology, 1906.

Wither, Sophus Keith..........................Assistant Professor of English
  A.B., Oregon, 1918; A.M., 1919; Ph.D., Washington, 1926.

Wood, Carl Paige................................Professor of Music

Wood, Florence................................Associate in Painting, Sculpture and Design

Woolston, Howard...............................Professor of Sociology
  A.B., Yale, 1898; S.T.B., Chicago, 1901; M.A., Harvard, 1902; Ph.D., Columbia, 1906.

Worcester, John Locke.........................Professor of Anatomy
  M.D., Birmingham School of Medicine, Alabama, 1900.

Worden, Ruth.................................Assistant Professor of Library Science
  A.B., Wellesley, 1911.

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

Zanstra, Herman..................Assistant Professor of Astronomy and Mathematics
  Chemical Engineer, Technische Hoogeschool, Delft, Holland, 1917; Ph.D.,
  Minnesota, 1923.
Library Staff

Henry, William Elmer, A.M. .................................. Librarian
Smith, Charles Wesley, A.B., B.L.S. .......................... Associate Librarian
Beardsley, Arthur Sidney, LL.B., B.S. (Lib.Sci.), Ph.D. .... Law Librarian
Alfonso, Marie Smart, A.B., B.S. (Lib.Sci.) .................. Catalogue Librarian
Putnam, Margaret Eleanor, B.A., B.S. (Lib.Sci.) ... Acquisitions Librarian
Thompson, Chloe Stevens, A.B., B.S. (Lib.Sci.) ...... Circulation Librarian
Batcheller, Elva, B.A., B.S. (Lib.Sci.) ............ Assistant Reference Librarian
Tucker, Lena Lucile, B.S. (Lib.Sci.), M.A. ........ Senior Assistant, Catalogue Division
Hoard, Mary Gladys, B.A., B.S. (Lib.Sci.), LL.M .... Cataloguer, Law Library
Swain, Olive, B.S., B.S. (Lib.Sci.) .... Senior Assistant, Catalogue Division
Campbell, Freda, A.B., B.S. (Lib.Sci.) ....... Senior Assistant, Catalogue Division
McCutchen, Lydia May, A.B. ........ Senior Assistant, Acquisitions Division
Anderson, Margaret Jones, A.B., B.S. (Lib.Sci.) — Senior Assistant, Acquisitions Division
Mutch, Ida Paine, A.B., B.S. (Lib.Sci.) — Senior Assistant, Acquisitions Division
Christoffers, Ethel, Ph.B., B.S. (Lib.Sci.) — Senior Assistant, Reference Division
Jones, Winifred, B.S., B.S. (Lib.Sci.) ... Senior Assistant, Reference Division
Larson, Luella, A.B., B.S. (Lib.Sci.) ... Senior Assistant, Reference Division
Barton, Lorna, A.B., B.S. (Lib.Sci.) .... Senior Assistant, Circulation Division
Kittell, George, A.B., B.S. (Lib.Sci.) .... Senior Assistant, Circulation Division
Prichard, Louise Gilman, A.B., B.S. (Lib.Sci.) ........ Senior Assistant, Reference Division
Hale, Ruth Elinor, B.A. ................. Junior Assistant, Acquisitions Division
Edwards, Elizabeth M., B.A. ............ Junior Assistant, Circulation Division
Meeks, Anastasia, B.S. (Lib.Sci.) .... Junior Assistant, Circulation Division
Potter, Elsie, A.B. ...................... Assistant, Circulation Division
Robbins, Franc, B.S. (Lib.Sci.) .... Junior Assistant, Circulation Division
Connolly, Zoa, B.S. (Lib.Sci.) .......... Junior Assistant, Reference Division
Anderson, Edith, B.S. (Lib.Sci.) ........ Junior Assistant, Reference Division
Johns, Loeta Lois, B.S. (Lib.Sci.) ... Junior Assistant, Acquisitions Division
Anderson, Katherine, B.S. (Lib.Sci.) ........ Secretary to the Librarian

United States Army Reserve Officers Training Corps

Matthews, Harry Thomas ......................... Colonel, C.A.C.
Greene, Royal Kemp ......................... Major, C.A.C.
Muhlenberg, Henry Clinton Kress ... Major, Air Corps
de Rohan, Frederick J. ......................... Major, Infantry
Priest, Harold Ragan ..................... Captain, Infantry
Meredith, Evan Kirkpatrick .......... Captain, Infantry
Williams, Laurin Lyman .................... Captain, Infantry
Luce, Dean .................. First Lieutenant, C.A.C.
Hildebrand, Christian ................ First Lieutenant, Infantry
Administration

Moller, Otto ..............................................Warrant Officer, U.S.A.
White, Harry Barre .................................Warrant Officer, U.S.A.
Lang, Walter ...........................................Master Sergeant, U.S.A., Retired
Compton, William F. ............................Staff Sergeant, D.E.M.L.
Bailey, Ray A .....................................Staff Sergeant, D.E.M.L.
Collins, Floyd ......................................Sergeant, D.E.M.L.
Freeman, Charles E .................................Private First Class, D.E.M.L.
Whitchurch, Roy B .................................Private First Class, D.E.M.L.

UNITED STATES NAVAL RESERVE OFFICERS' TRAINING CORPS

Odling, James Perdue .................................Commander, U.S. Navy
Rice, Paul Hildreth .................................Commander, U.S. Navy
Gromer, James G. B ...............................Lieutenant Commander, U.S. Navy
Foote, Ernest A .......................................Lieutenant, U.S. Navy
Littell, Roland B ....................................Chief Yeoman, NR-F3C
Hamilton, Malcolm .................................Chief Gunner's Mate, NR-F4C
Wilson, Christian J .................................Chief Boatswain's Mate, NR-F4C

ASSISTANT ADMINISTRATIVE OFFICERS

Reinhard, Ethel Orvis, A.B ..........................Secretary to the President
Fawcett, John H., A.B .............................Director, Men's Personnel Office
Taylor, William D. Jr, A.B ......................Director, Men's Personnel Office
Ward, May, A.M .................................Assistant Dean of Women
Bash, Mary Lola, A.B .............................Assistant Dean of Women
Westmoreland, Harriett ............................Publications Editor
Wentworth, Lois J, B.A .................................Secretary to the Dean of the Graduate School
Limbach, Roberta W .................................Bureau of Appointments Secretary
Terrell, Margaret E, M.A ..........................Director of Dormitories and Dining Halls
Thorpe, Bernice DuRae, M.A ........................Assistant, President's Office

OFFICE OF THE COMPTROLLER

Condon, Herbert T, LL.B .............................Comptroller
Wilson, Aimée ......................................Secretary to the Comptroller
Butterbaugh, Grant, M.B.A .........................Auditor
Stuart, Charles K, LL.B .............................Cashier
Hipkoe, Max ..................................Assistant Purchasing Agent
Elwell, Frederick .................................Superintendent of Buildings and Grounds

OFFICE OF THE REGISTRAR

Stevens, Edwin Bicknell, A.M ........................Registrar
Ollis, Alice M ..................................Assistant to the Registrar
Ewell, Frances M ..........................Assistant for Schedules and Secretary to the Registrar
University of Washington

Willard, Frances, A.B. .................................. Credentials Assistant
Whicker, Meta, A.B. .................................. Registration Assistant
Brugger, Minnie Kraus, A.B. .......................... Graduation Assistant
Pepper, Leah H. .................................... Recording Assistant

THE MUSEUM

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

ENGINEERING EXPERIMENT STATION

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

PUGET SOUND BIOLOGICAL STATION

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

STATE CHEMIST

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

NORTHWEST EXPERIMENT STATION UNITED STATES BUREAU OF MINES

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

UNIVERSITY HEALTH SERVICE

Hall, David Connolly, M.D. ......................... University Health Officer
Johnson, Hannah, M.D. ............................. Medical Examiner for Women
Gunn, Elizabeth, M.D. ............................... Assistant Physician
Reeder, Maude, R.N. ................................ Resident Nurse
Price, Pauline, R.N. ................................. Public Health Nurse
BOARDS AND COMMITTEES
1928-1929

ADMINISTRATIVE BOARDS

Admissions.............................The Board of College Deans


Schedule and Registration—Stevens, George Wilson, Cory, Tartar, Sidey, O. E. Draper, Wood, Carpenter, Brakel, DeVries, Corey, Dakan, Butterbaugh.

Student Discipline.............Lantz, Burd, Thompson, Guthrie, McIntyre

Summer Quarter..............Burd, Thomson, Padelford, Landes, Condon

COMMITTEES OF THE FACULTY

Art.............................Thomas, Rhodes, Pratt

Athletics.............May, Ayer, Hall, Moritz, Dehn, Campbell, secretary

Curriculum—Benson, Cobb, Ayer, Corey, Patzer, Dakan, Randolph, Lynn, Herrman, George S. Smith, Stevens, Alfonso, R. W. Jones.

Graduation—Preston, Magnusson, Glen, Lantz, Kirkland, Williams, Griffith, Goodspeed, Hoard, Stevens.

Honors......Gavett, Carpenter, T. S. McMahon, Wood, Dahlin, Gould


Military and Naval Affairs........Osborn, Carpenter, McIntyre.


Public Exercises...Daniels, R. D. McKenzie, Lovejoy, L. Gowen, Lawrence.


Rhodes Scholarships..............Densmore, Harrison, Small, Quainton.


Student Welfare and Loans—Wilcox, Fawcett, Haggett, Raitt, Hall, Densmore, Condon.
THE UNIVERSITY

HISTORY

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

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

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

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

GOVERNMENT

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

ENDOWMENT AND SUPPORT

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

The legislature of 1925 increased the millage rate for operation from 1.10 of a mill to 1.47, but based this rate on the then assessed valuation of $1,158,026,676.00. This will yield annually $1,702,300.00, which augmented by sundry property receipts and tuitions should yield approximately $1,860,000 for 1928-1929 and annually thereafter until modified by law.

The property of the University includes:

The two townships of land granted by Congress in 1854. There remains of this old grant 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.
The Board of Regents of the University of Washington is authorized by law to receive such bequests or gratuities as may be given or granted to the University, and to invest or expend the same according to the terms of such bequests or gratuities. The Board of Regents has adopted rules to govern and protect the principal of such gifts and the income therefrom so that the same will be forever applied to the purposes designated by the donors of the gifts.

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

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

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

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

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.

PLAN OF THE CAMPUS

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

The plan provides for foot traffic only within the quadrangles. Automobile and service roads are provided to give access to the various groups, and scenic driveways encircle the campus. The ground to the west of Montlake Boulevard is reserved for athletics and the Stadium seating 30,000 persons has been built in this section of the campus by the Associated Students of the University of Washington.

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

The northwest section of the campus is reserved for men's dormitories.

Between these two proposed groups Memorial Way enters from the north as the continuation of University Boulevard.

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

The men's gymnasium and pavilion and the women's gymnasium have been completed during the past year, and these buildings make ample provision for the physical education requirements of the University.

Physics Hall, the first unit of the Science group, is now building and will be ready for occupancy by the fall quarter. The four buildings adjacent to the Science group are Hydraulics, Forest Products, Mines Laboratories and Anderson Hall.

BUILDINGS

The buildings now in use on the University campus include the Aerodynamical Laboratory, Anderson Hall, Anatomical Laboratory, Bagley Hall and Annex, Commerce Hall, Denny Hall, Dormitories, (Lewis, Clark, Landers and Terry), Education Hall, Engineering Hall, Fisheries Buildings, Forest Products Laboratory (Dry Kiln, Wood Preserving Plant, Dry Shed), Foundry and Shop Building, Good Roads Building, Men's and Women's Gymnasiums, Health Service Building, Henry Art Gallery, Home Economics Hall, Hydraulics Laboratory, Library, Meany Hall, Mines Laboratory, Music Building, Observatory, Pharmacy Building, Philosophy Hall, Power House, Practice Cottage, R.O.T.C. Armory and Headquarters Buildings, Science Hall, United States Bureau of Mines, United States Mine Safety Station. (38)
LIBRARY FACILITIES

The general library is housed in a beautiful new building containing comfortable and adequate provision for readers. The book collection has been built to meet the needs of students in all lines of undergraduate instruction. A stock of the more fundamental publications needed for advanced research is quite rapidly accumulating and special collections are being formed in a few limited fields. The number of bound volumes is 190,414.

The library of the Law School contains 53,563 volumes. Both libraries are freely accessible to all who care to use them.

In addition to the libraries on the campus, the Seattle Public Library, containing 412,882 volumes, is open to the University.

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, which was formerly housed in the old Forestry Building of the Alaska-Yukon-Pacific Exposition, has been transferred to the building previously occupied by the University Library. The collections are in process of re-installation and it is expected that the museum will be opened formally with the beginning of the autumn quarter, 1928. The collections on the main floor, however, will be available for public inspection during the summer months.

The collections, which have not been available to the public since May 26, 1923, now number approximately 125,000 specimens, with an estimated value of $300,000. The main entrance hall on the first floor will be devoted to ethnological material of the State of Washington. Adjoining this hall are rooms devoted to collections of minerals and paleontological material, and marine fauna which is represented by a series of mounted fishes of the northwest coast, corals, sponges, starfish, shells, crustacea, etc. On the north side of the main hall one room contains a systematic series of local birds. The mammal hall contains habitat groups of mountain goats, bear, deer, elk, wolf, etc., adjoining which is a room containing small habitat groups of local birds, and a room with a display of insects.

Ethnology.—Beginning on the right in the main hall the collections illustrative of the life, arts and industries of the Indians will start with the Coast Salish tribes and continue in geographical sequence through the northwest coast and British Columbia, into the annex, where the Alaskan Indian and Eskimo collections will be displayed. There is also a choice collection of articles from the Copper Eskimos of Coronation Gulf, Northwest Territories, Canada, and from the Eskimo and Chukchee of the Siberian coast. The rest of the main hall will be devoted to the archaeology of Eastern Washington and the Columbia river region, with material illustrating the culture of the Interior Salish.

The gallery will contain articles from the aborigines of the Philippine Islands, Oceania and Australia, as well as a collection of ancient firearms, relics of the World War, and historical materials representing pioneer days in the Pacific Northwest and elsewhere.

Fine Arts.—The fine arts section will be placed in a series of rooms on the north side of the gallery. This will include porcelains, embroideries,
paintings and other art objects from China; a fine collection of Buddhas from northern China and Siam; and European textiles, porcelains, engravings and sculpture. One room will be devoted to Scandinavian handicrafts, and the collection of early American objects will include, among other things, a replica of a "Colonial" room.

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

The herbarium of over 35,000 specimens contains a characteristic series of northwest flora, and the Frye collection of mosses of this region and Alaska, which is one of the most complete in the United States.

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

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

HORACE C. HENRY GALLERY OF THE FINE ARTS

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

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

LABORATORIES

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

ENGINEERING LABORATORIES

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

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

Civil Engineering.—The hydraulic laboratory is on the shore of Lake Union, where facilities are available for both medium and high head ex-
Equipment

Experiments. For medium head, a free water surface, one acre in extent, is provided at an elevation of 100 feet above the laboratory floor. High head supply is furnished by centrifugal pumps having a combined capacity of 2,500 gallons per minute under heads of 0 to 400 feet.

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

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

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

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

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

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

Engineering Shops.—The shops are organized into three major divisions, viz., foundry, forge and machine. The foundry division is equipped with cupola, electric and crucible melting furnaces together with five types of molding machines and sand conditioning and casting cleaning equipment. Equipment is also available for pattern making and flask repair. The forge division contains, in addition to the regular forging equipment, three heat treating furnaces, Brinell hardness testing machine, oxy-acetylene welding and cutting equipment and an electric arc welder. The machine division contains a complete range of basic machine tools in which engine lathes predominate. This division maintains a complete tool crib including two sets of standard gages.

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

FISHERIES LABORATORIES

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

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

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

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

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

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

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

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

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

Aquarium.—The aquarium is equipped with a number of tanks for live fishes, and with balanced and other aquaria for study of aquarium management.

FORESTRY AND LUMBERING LABORATORIES

Dendrology.—Individual lockers. A large herbarium and extensive collections of tree seeds, cones, bark specimens. An arboretum of 200 acres is under way.

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

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

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

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

Timber Physics.—The tract contains approximately twenty-five million feet of timber. In addition to this there are areas of second growth forests of varying ages, some logged-off lands, and some burned over areas, making the tract well adapted for experimental and demonstration purposes. The laboratory is magnificently equipped with seven large testing machines for static and impact loading, circular and band saws, planer and other shop equipment for wood-working, and forms the first completely equipped unit of the Forest Products laboratory.

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

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

1. General Laboratory.—Equipped with special wood sectioning and plain sliding microtomes, binocular research microscopes 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, en-
larging 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, hygrometric recording hygrometer and a recording thermometer is conveniently located on the University spur of the Northern Pacific Railway. Arrangements have also been completed at one of the local commercial plants whereby the College of Forestry is given complete control of an experimental kiln at the plant.

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

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

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

The Charles Lathrop Pack Forest.—This is a tract of approximately 2000 acres located at LaGrande, Washington, adjoining the Rainier National Park Highway. The tract is used as an experiment station and as a public demonstration forest, the idea being to place forestry on display in show window fashion so the public may learn of the various methods of scientific forestry. It is admirably adapted for this purpose, having a frontage of about two miles on the highway and presenting a wide range of conditions. The money for the purchase of the forest and for putting it in shape was provided from the Charles Lathrop Pack Forestry Trust and by Doctor Pack himself.

The Lee Field Laboratory.—This is a tract of 80 acres containing a second growth stand of approximately 40 year old timber located at Maltby. The tract was donated to the College of Forestry by Ingie Marie Lee Hodgins, Edna Mae Lee Engle and George O. Lee, in memory of their parents, the late Mr. and Mrs. O. H. Lee. As the tract can be reached by auto in less than one-half hour from the University campus it will be especially valuable in connection with the regular laboratory instruction in the courses in silviculture and mensuration, and will also lend itself to some experimental work.

JOURNALISM LABORATORY

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

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

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

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

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

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

For testing magnetic ores and sands a Dings magnetic separator of Rowland-Wetherill type with both high and low intensity, a Davis tube-tester, and an electro-magnet are provided. A 3-stamp battery fed by a challenge feeder delivers pulp to silvered copper plates and a Pierce amalgamator, thence to the concentrating tables. The flotation laboratory contains ten different cells of the most recent types. The screening equipment includes Hummer, Leahy, Newaygo, Ro-Tap, and other makes. A Dorrisco pump and a Wilfley sand-pump can be used to elevate pulp. Among the items of special equipment are a Chance sand-flotation apparatus, an Oliver filter, and a form of Leitz microscope recently designed for studying mill products. The accessory equipment such as feeders, launders, samplers, settlers, dryers, scales, and trucks is very complete. Abundant water is available in the mill under both high and low heads.
Metallurgy.—The fourth floor of the new building is devoted to metallurgy proper. Separate laboratories are provided for general metallurgy, fire assaying, wet analysis, fuels, electrolytic work, research, and metallography, besides the balance rooms, dark room and stock room. The furnaces consist of two standard-size, double-muffle Denver oil burners, also gas and gasoline-fired and electric muffle furnaces, and a Hoskins 12.5 KW electric melting furnace. Pyrometers and three types of calorimeters are provided. Among the new pieces of special apparatus may be noted a Leitz complete photo-micrographic apparatus, a set of microscopes for metallography, an Orsat gas-analysis apparatus, Parr's total-carbon apparatus for coal, Brinnell and scleroscope machines for testing hardness.

Coal Washing.—The coal section of Mines Laboratory occupies an area of 54x57 feet and a height of 58 feet, including four stories and a sub-basement, connected by electric elevator. 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 a bucket elevator for transportation to screens on the fourth floor, the screened products falling into bins on the third floor. From the bins, gravity flow delivers the screened sizes to the second floor, where classifiers, jigs, tables, and other forms of washing equipment are located. Products from these machines may flow to a sludge tank on the lower floor for settling and dewatering.

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

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

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

PHARMACY, MATERIA MEDICA AND CHEMISTRY LABORATORIES

Rooms devoted to pharmacy, materia medica and chemistry are located in Bagley Hall, a three-story fireproof building, and in the Pharmacy Annex. Special sections are provided for pharmacy students in general, organic and qualitative chemistry. Work in prescription practice receives special attention in the Pharmacy Annex. This building contains one large room arranged and equipped as a model prescription pharmacy; a second but smaller room equipped with optimus fixtures donated by Stewart and Holmes Drug Company, arranged and equipped as a sales room. The prescription room contains displays of pharmaceuticals from many of the leading pharmaceutical houses.
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.

UNITED STATES BUREAU OF MINES NORTHWEST EXPERIMENT STATION

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

Mine Safety Station.—The Mine Safety Station of the United States Bureau of Mines occupies a separate building located near Laurelhurst boulevard. Various types of oxygen rescue and resuscitation apparatus are kept on hand for practice and use in mine rescue work. The purposes of the station are to give emergency aid in cases of fires or explosions at mines or elsewhere, and also to train miners, firemen, and mining students in the use of oxygen helmets and other forms of rescue apparatus. 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 track, overcast, timbers and brick. First-aid instruction is also given. Applicants who have completed the course of training receive a certificate from the United States Bureau of Mines.

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

ENGINEERING EXPERIMENT STATION

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

The scope of the work is two-fold:

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

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

The purpose of the station is to aid in the industrial development of the state and nation by scientific research and by furnishing information for solution of engineering problems. Every effort will be made to cooperate effectively with professional engineers and the industrial organization in the state. Investigations of primary interest to the individual or corporation proposing them, as well as those of general interest, will be undertaken through the establishment of fellowships.
The control of the Engineering Experiment Station is vested in an administrative staff consisting of the president of the University, the dean of the College of Engineering, ex-officio director, and eight members of the faculty.

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

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

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

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

THE UNIVERSITY ORGANIZATION

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

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

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

(A) The Colleges of Liberal Arts and Science, which provide a liberal education in arts and pure science, in a course normally requiring twelve quarters of residence, leading to the degrees of bachelor of arts and bachelor of science.

(B) The professional and technical schools and colleges including:

(1) The College of Business Administration, covering the fundamental scientific training in industry and commerce in a course of twelve quarters leading to the degree of bachelor of business administration.

(2) The School of Education requires for admission six quarters of approved work in any college of the University, and offers an advanced course of six quarters preparing students for careers as high school teachers and school administrators. The degrees are bachelor of arts or bachelor of science, in education. Students in the College of Liberal Arts may major in the department of education and receive the degree of bachelor of arts.

(3) The College of Engineering has four departments: chemical, civil, electrical and mechanical engineering, (including aeronautical and marine), with curricula of twelve quarters leading to the degree of bachelor of science in the special field chosen by the student. The degree of master of science in each field is open to graduate students.

(4) The College of Fine Arts offers curricula of twelve quarters in architecture, vocal, instrumental, or public school music, or musical theory, painting and design, public school drawing, music and drawing, and dramatic art, leading to the degrees of bachelor of architecture, bachelor of music and bachelor of fine arts, or bachelor of arts with a major in one of the subjects named.

(5) The College of Fisheries lays a scientific foundation for work connected with the fisheries industry, one of the chief resources of the Pacific Coast. Bachelor of science in fisheries is the degree offered.

(6) The College of Forestry offers a curriculum of twelve quarters preparing for work in scientific forestry or in the lumber industry, leading to the degree of bachelor of science in for-
University of Washington

estry. The full professional course is fifteen quarters, with a liberal allowance of electives, giving opportunity for specialization in forest service and state work, logging engineering, forest products, or the lumber business. For this course the degree of master of science is given in the Graduate School.

(7) The School of Journalism requires for entrance junior standing, that is, completion of two years of college work in liberal arts or science. The curriculum leads to the degree of bachelor of arts in journalism and prepares its students for practical newspaper work.

(8) The School of Law is the standard of approved law schools for admission to the bar of this state. For admission the student must have junior standing from the College of Liberal Arts or the College of Science, or its equivalent. The curriculum of the school covers nine quarters, leading to the degree of bachelor of laws. The degree of master of arts also is given. Students may carry on work in liberal arts or science and law concurrently, taking both bachelors' degrees in six years, or eighteen quarters.

(9) The Library School prepares students for librarianship in a technical curriculum extending through three quarters following either three or four years of academic study. On completion of the library school curriculum (45 credits), the degree of bachelor of science in library science is given.

(10) The College of Mines offers curricula of twelve quarters leading to the degree of bachelor of science in mining engineering, geology and mining, metallurgical engineering, or coal mining engineering. The fields open to graduates of this college are indicated by these divisions. The college also offers a curriculum in ceramics (clay, glass and cement products). The degree of master of science, with a major in one of these lines, may be obtained in the Graduate School.

(11) The College of Pharmacy offers three-year and four-year courses, the first giving preparation in technical and commercial pharmacy, and the second providing a well-rounded scientific training in this field. The three-year course leads to the degree of pharmaceutical chemist, and the four-year course to the degree of bachelor of science in pharmacy. A fifth year in the Graduate School offers an opportunity for graduate research work leading to the degree of master of science in pharmacy.

(C) The Graduate School offers work leading to the degrees of master of arts, master of science, master of arts or master of science in technical subjects, certain technical or professional master's degrees (as, for example, master of business administration), and doctor of philosophy. A master's degree presupposes at least one year of resident work of high grade and special character, and a doctor's degree at least three years of such work. The University is placing increased emphasis upon its graduate work.

Definitions and Explanations.—In all statements relating to the University the word course refers to a single study pursued for a definite period, for which credit may be given toward University requirements for graduation in accordance with the number of hours taken. A curriculum is a group of courses arranged to be followed consecutively or concurrently. A department is the unit of instructional organization in a particular set-
ence or art, as the department of geology. A college gives full curricula, beginning with the work of the freshman year and covering twelve quarters. The work of a school is preceded by two or more years of college work.

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

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

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

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

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

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

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

ADMISSION TO THE UNIVERSITY

GENERAL STATEMENT

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

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

ADMISSION BY CERTIFICATE

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

Credentials for students expecting to enter the University in the autumn quarter, 1928, should be filed in the registrar's office not later than August 15. It is obligatory to submit at entrance, records from all schools previously attended, together with all credentials showing present membership, or past service, in the army, navy, marine corps, National Guard, naval militia, or the United States Coast Guard.

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

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

ENTRANCE REQUIREMENTS

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

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

(a) Not more than three units in technical or vocational subjects (except for the College of Business Administration, as noted below).

(b) At least eight units from academic groups (English, Mathematics, Natural Science, Social Science, Foreign Language,) so chosen as to include two units of English, but nine academic units are required for all students who do not present a unit of fractional credits in other subjects accepted by the high school for graduation.

(c) The specific requirements of the college to which admission is sought, must be met. These are as follows:

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

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

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

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

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

FISHERIES: No specific requirements.

FORESTRY: Advanced algebra, one unit of plane geometry.

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

PHARMACY: No specific requirements.

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

2. Scholarship Required.—For the year 1928-29, a minimum of eight units must be represented by grades which are at least one step above the passing mark when letters are used to designate grades, or above the passing percentile grade at least one-fourth of the difference between the passing grade and 100 per cent. Such grades shall be known as recommending grades. Beginning with the autumn quarter of 1929-30, and thereafter, nine such units will be required.

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

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

When a student repeats or reviews subjects for the purpose of earning recommending grades, he should choose, when choice is possible, subjects which will be of greatest value to him in college work. The advice of the high school principal should be sought in deciding upon approved subjects. Applicants for admission whose scholarship is open to question should return to the high school from which they were graduated, and if from other states than Washington should take College Board Entrance Examinations, including the Scholastic Aptitude Test, the following year. Information regarding these examinations may be obtained from

†Commercial arithmetic and elementary algebra do not satisfy this requirement.
the College Entrance Examination Board, 431 West 117 St., New York, N. Y.

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

(a) A satisfactory score in a psychological examination.

(b) A rating upon (1) Working traits and (2) Special ability.

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

**ACCREDITED SCHOOLS**

Secondary schools mentioned in the 1926-27 catalog as accredited may use their accreditation privileges for their graduates of June 1928. The University of Washington will in the future depend on the State Board of Education for lists of accredited public and private high schools for the State of Washington.

**SCHOOLS OUTSIDE OF WASHINGTON**

Graduates of other 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.

**ADMISSION TO ADVANCED STANDING**

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

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

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

Library School.—1. Graduate students are admitted who hold the baccalaureate degree from any college or university of good standing, whose undergraduate work in either or both high school and college has included at least twenty college credits each in German and French.

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

Advanced Undergraduate Standing.—Students who present complete transcripts and 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, provided their scholarship meets the standards required of resident students of the University of Washington. No advanced credit will be given for work done in institutions whose standing is unknown, except upon examination. Definite advanced standing will not be given until the student has been in residence at least one quarter.

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

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.

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.

Extension Service.—Following are certain rules of the faculty and administrative decisions which should be noted by those who wish to obtain credit toward a university degree for their home study work:

(1) "Correspondence students in the Extension Service who have had the required preparation for admission to the University, and whose program has been approved, will upon satisfactory completion of their correspondence work receive a certificate of credit in the University, but the maximum credit for work done by correspondence may not exceed one-half of the hours required of resident students for graduation. Records of credit for correspondence study are filed separately until the student has satisfactorily completed one year in residence, when they become part of the University record."
A "The work of the senior year (a maximum of 36 credits earned in 36 weeks, must be done in residence." Rule 9.

(3) No student may take an extension course, either correspondence or class, while enrolled as a resident student in the University, without the consent of his dean, approved by the registrar and by the director of the Extension Service. This permission, on forms furnished for the purpose, must be filed in duplicate in the registrar's office and in the extension service office.

ADMISSION TO GRADUATE STANDING

A bachelor's degree from a college or university of good standing is required for admission to the Graduate School. For further details, see Graduate School section, page 220.

ADMISSION BY EXAMINATION

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

ENTRANCE EXAMINATIONS

Entrance examinations are held at the registrar's office on the following dates: July 18, 19, 20, 1928; September 19, 20, 21, 1928; and December 19, 20, 21, 1928; and March 18, 19, 20, 1929. On these days the following schedule will be adhered to:

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<td>9-11 English</td>
<td>U. S. History</td>
<td>Physics</td>
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<td>11-1 Algebra</td>
<td>Civics</td>
<td>German</td>
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<td>2-4 Greek and Latin</td>
<td>Economics</td>
<td>Solid Geometry</td>
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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.

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.

The College Entrance Examination Board will give their examinations in Seattle, Tacoma, and Spokane in 1929 from June 17 to 22 and in 1930 from June 16 to 21. Applicants for examination should communicate, before April 30, with the Secretary of the College Entrance Examination Board, 431 West 117 Street, New York, N.Y.

FOREIGN STUDENTS

Students from schools in foreign countries and non-English speaking communities will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge.

*Three-fourths after September, 1929.
of English, acquaintance with American methods of instruction, and plans of study, to enable them to carry regular college work successfully. An examination will be required by the registrar on these supplementary points.

Students from foreign schools whose standing is not known to be the equivalent of accredited American schools may be required to pass examinations in designated subjects.

**ORIENTATION COURSE**

*Introduction to College Study.* Section I.—A special orientation course is offered for non-English speaking students who are found to need special training before continuing with a full student load in the University. To a great extent those who are to enroll in this course are chosen on the basis of the results of the entrance examinations required by the registrar. However, the course is open to all students that feel the need of special training.

The course includes such drills as pronunciation, writing, reading, lecturing, methods of study, etc. Special emphasis is laid upon the importance of orientation of the individual to fit properly into American college life. In this course a complete diagnosis is undertaken to determine each student's particular difficulty.

This is a five hour course not counting toward graduation but which is equivalent to a five credit course in the student's schedule.

*Introduction to College Study.* Section II.—This course is given for students who feel that they do not have a sufficient knowledge of the proper methods of studying in college. Section II is a five hour course, not counting toward graduation, but which is recorded as a matter of determining schedule and for showing work done in case a student transfers to other universities or colleges.

For students who have been dropped from the University because of scholastic difficulties, this course is an avenue of approach for reinstatement at the discretion of the Board of Deans, if a satisfactory record has been established therein. It has been so arranged as to give the student methods of reading and study, preliminary survey of assignments, taking notes, briefing surveys for reviews and examinations, analysis of discussion, definite plans for meeting examination, etc.

Details concerning these courses and registration for them should be made through the Mens' Personnel office. Since they must be self-supporting, a fee of $20 is required for each.

**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.

Advanced credit by course examination may not cover more than half of the requirement for graduation. At least one-half of the student's work for a degree must be under the supervision of this or some accredited university. Work under supervision here includes residence class work, extension class work and home study work.

A fee of $1 per course number will be charged for all examinations outside the regular schedule.
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.

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 or to be initiated into a fraternity or a sorority.

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

AUDITORS

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

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

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

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

Registration

Registration for all students for the autumn quarter will take place prior to Monday, October 1; for the winter quarter prior to Monday, January 7, 1929, for the spring quarter, prior to Monday, April 1, 1929, and for the summer quarter, prior to Tuesday, June 18, 1929.

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.—All students are expected to complete their registration (including payment of all required fees) prior to the dates noted above. 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 change of registration is the addition to or the withdrawal from any course that appears on the election blank.

A student desiring to change his registration shall secure a change of registration card from his registering office.

He shall satisfy his dean as to the reasons for the change.

He shall secure the signature of the instructor from whose class he wishes to withdraw and from the instructor whose class he wishes to enter.

He shall present the change of registration card at the sections' window in the registrar's office for approval.

He shall pay a fee of $1 at the comptroller's office for each change made and get a receipt for same. One change may be considered the withdrawal from or addition of one course at one time. No fee is charged when the change is made on the initiative of the University authorities.

No change in registration involving entrance into a new course shall be permitted after one week (seven days) following the beginning of instruction. No withdrawal from a course will be accepted during the last two weeks of the quarter.

Rule 2. Unsatisfied prerequisites take precedence over other subjects. Any student having any unsatisfied entrance prerequisite must register for the work each quarter until the deficiency is removed. In special cases, permission to postpone the removal may be granted by the dean of the proper college.

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 military science or physical training), or the number for the respective quarters in the prescribed curricula.

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

Rule 5. No student may be registered for more than 20 hours (exclusive of military science or physical education.)
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 pass a medical examination as a part of their registration requirements. Men will report to the infirmary and women to the gymnasium on the date and hour designated when registering. This appointment takes precedence over all others scheduled for that hour. Students failing to keep the appointment will not be allowed to reregister for another quarter until the examination is passed on the day before the final registration date for that quarter.

EXPENSES

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

**GENERAL TUITION FEES**

*Resident Tuition.*—Fifteen dollars ($15) general tuition per regular academic quarter from each student who has been domiciled within the state of Washington or the territory of Alaska for a period of one year prior to the date of registration.

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

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

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

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

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

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

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

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

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

PAYMENT OF FEES

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

Refunding Fees.—Tuition and other general fees are not returnable, except in case of sickness or causes entirely beyond the control of the student. No portion of the returnable fees shall be returned for voluntary or enforced withdrawal after thirty (30) days from the first day of the quarter. In no case shall more than one-half of the fees be refunded. Students withdrawing under discipline forfeit all rights to the return of any portion of the fee.

OTHER CHARGES

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

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

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

Law Library Fee.—Ten dollars ($10) per quarter special law library fee from each student registering in law will be charged in addition to the general tuition fee. Students other than majors in law taking work in the School of Law will pay at the rate of one dollar ($1) for each credit hour of law work elected up to a maximum of $10 per quarter.
Short Course Tuition.—Twenty dollars ($20) from each student registering in any short course—mining, forestry, fisheries, etc.

Summer Quarter Tuition.—Twenty-five dollars ($25) is collected from each summer quarter student. In addition to this tuition one dollar is charged for A.S.U.W. fee.

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

Military Uniform Deposits.—Each student registered for military or naval science is required to make a uniform deposit.

In the army units the basic uniform costs $30 and becomes the property of the student. Upon the completion of each year of satisfactory service the wearer is refunded $7.15 less any shortages of equipment for which he is responsible.

In the naval unit the deposit is $25 which is returned at the end of his service. The naval uniform is not the property of the student.

In the navy unit a $2 fee is retained as a breakage and loss charge.

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

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

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

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

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

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

Health Service Fee.—A fee of $1 per quarter will be collected by the University for the maintenance of the health service.

Laboratory Fees and Deposits

The following laboratory fees and deposits will be collected quarterly during the ensuing year 1928-1929. With few exceptions, these fees are not returnable in whole or in part, and in no case can any rebate be allowed after 30 days from the first day of the quarter: (Fees and deposits listed below apply individually to each numbered course as segregated under the various subjects.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Anatomy-110, 111, 112</td>
<td>$1.00</td>
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<td>101, 102, 103, 104, 105, 106, 107, 108</td>
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<td>Architecture-112, 113, 40, 41, 42</td>
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<td>54, 55, 56, 104, 105, 106, 107, 154, 155, 156, 157, 160, 161, 162</td>
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<td>for the year</td>
<td>5.00</td>
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<td>Course Area</td>
<td>Courses</td>
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<td>Bacteriology-103</td>
<td>101, 102</td>
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<td>104, 105, 106, 107, 108, 110, 111, 112</td>
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<td>181, 182, 199, 220, 233, 247, 250, 251, 271, 272, 273</td>
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<td>Botany-1, 2, 3, 11, 12, 13, 14, 53, 54, 90, 101, 111, 140, 141, 142, 180, 181, 182, 199, 220, 233, 247, 250, 251, 271, 272, 273</td>
<td>2.00</td>
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<td>105, 106, 107, 119, 143, 144, 145, 279, 280</td>
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<td>Ceramics-110</td>
<td>121, 122, 123</td>
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<tr>
<td>Chemistry-All courses except 52, 152, 173, 200, 201, 202, 203, 215, 216, 221, 222, 223, 231, 232, 233, 249, 176, 177, 178, 210, 211, 212, 230, 235, 250</td>
<td>6.50</td>
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<td></td>
<td>Breakage ticket</td>
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<td>Civil Engineering-53, 54, 55, 56, 57, 59, 142, 143, 150, 155, 158, 162, 163, 171</td>
<td>2.00</td>
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<tr>
<td>Dramatic Art-101, 102, 103</td>
<td>104, 105, 106, 114, 115, 116</td>
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<tr>
<td>Economics and Business Administration. All courses except those listed below</td>
<td>15, 16 Typewriting, and 18, 19 Shorthand</td>
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<td>81, 82, 83</td>
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<tr>
<td>Education—All courses except those listed below</td>
<td>160D, 160DD, 160Z</td>
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<tr>
<td></td>
<td>150</td>
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<td></td>
<td>196, 197, 198</td>
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<tr>
<td>Electrical Engineering—132, 141, 181, 183, 196, 198</td>
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<td>102, 110, 112, 122, 162, 164</td>
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<td>Engineering Shops—115, 120</td>
<td>52, 54, 55, 105, 106, 107</td>
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<td></td>
<td>53</td>
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<td>Fisheries—53, 54, 60, 101, 102, 103, 104, 105, 112, 140</td>
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<td>110, 111, 120, 121, 122, 154</td>
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<td>150, 151, 152</td>
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<td>201, 202, 203</td>
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<td>Forestry—1, 5, 51, 52, 53, 58, 59, 101, 104, 152, 190</td>
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<td>160, 161, 162, 187, 188, 189, 196, 213, 214, 215</td>
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<td>General Engineering—1, 7, 21</td>
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<td>Geography—1, 11</td>
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<td>Geology—1a, 1b</td>
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<td>2, 21, 105, 120, 123, 124, 131, 132</td>
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<td>Home Economics 8, 43, 101, 102, 190</td>
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<td>25, 111, 112, 113, 121, 127, 130, 131, 133, 135, 143, 183, 188</td>
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<td>1, 4, 5, 9, 105, 106, 107, 108, 116, 120</td>
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<td></td>
<td>200, 204, 205, 206</td>
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<td>207, 208, 209</td>
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### University of Washington

<table>
<thead>
<tr>
<th>Department</th>
<th>Courses</th>
<th>Fee</th>
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<tr>
<td></td>
<td>(Maximum fee for any one student $2.50 per quarter).</td>
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<tr>
<td>Law</td>
<td>Students registered in Law School, maximum of $10.00. Students in other colleges $1. per credit hour.</td>
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<tr>
<td>Library Science</td>
<td>Text book fee, one or more courses per quarter.</td>
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<tr>
<td>Mathematics</td>
<td>13</td>
<td>1.00</td>
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<tr>
<td>Mechanical Engineering</td>
<td>83, 151, 152, 153, 167</td>
<td>2.00</td>
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<tr>
<td>Metallurgy</td>
<td>103, 163</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>102</td>
<td>10.00</td>
</tr>
<tr>
<td></td>
<td>153, 160</td>
<td>12.00</td>
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<tr>
<td></td>
<td>101</td>
<td>20.00</td>
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<tr>
<td>Mining</td>
<td>101, 151, 191, 192, 193, 194</td>
<td>5.00</td>
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<tr>
<td></td>
<td>152, 176</td>
<td>10.00</td>
</tr>
<tr>
<td>Music</td>
<td>18, 19, 20, 68, 69, 70, 118, 119, 120, 168, 169, 170 as listed below:</td>
<td>1.00</td>
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<tr>
<td></td>
<td>Allen, Oliver, Canfield (One lesson a week)</td>
<td>18.00</td>
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<tr>
<td></td>
<td>Venino, Van Ogle, Mahon, Bogardus, Lawrence, Rosen, Lynch,</td>
<td>18.00</td>
</tr>
<tr>
<td></td>
<td>Wood, Kirchner (one lesson a week)</td>
<td>25.00</td>
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<tr>
<td></td>
<td>Glen (One lesson a week)</td>
<td>27.00</td>
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<tr>
<td></td>
<td>Adams (One lesson a week)</td>
<td>20.00</td>
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<tr>
<td></td>
<td>Piano practice room. An hour a day for a quarter.</td>
<td>3.00</td>
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<td></td>
<td>Key deposit</td>
<td>1.00</td>
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<tr>
<td></td>
<td>Organ Practice room an hour a day for a quarter.</td>
<td>12.50</td>
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<td></td>
<td>Key deposit</td>
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<tr>
<td></td>
<td>Violin Practice room</td>
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<td>Nursing</td>
<td>5</td>
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<td></td>
<td>50</td>
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<tr>
<td>Painting, Sculpture and Design</td>
<td>5, 6, 7, 9, 10, 11, 56, 57, 58, 65, 66, 67, 80, 81, 82, 102, 110, 111, 151, 152, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 263, 264, 265</td>
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<td>53, 54, 55, 103, 104, 130, 157</td>
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<tr>
<td></td>
<td>116</td>
<td>.50</td>
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<td>72, 73, 74, 107, 108, 109, 122, 123, 124, 132, 133, 134, 160, 161, 162, 175, 176, 177, 207, 208, 209, 260, 261, 262</td>
<td>3.00</td>
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<tr>
<td></td>
<td>158, 159</td>
<td>5.00</td>
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<tr>
<td>Pharmacy</td>
<td>15</td>
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<td></td>
<td>9, 10, 11</td>
<td>3.00</td>
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<td>7</td>
<td>4.50</td>
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<tr>
<td></td>
<td>1, 2, 3, 5, 6, 113, 114, 115, 195, 196, 197</td>
<td>6.50</td>
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<tr>
<td></td>
<td>191, 192, 193, 201, 202, 203—$1. per credit hour.</td>
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<tr>
<td>Physical Education for Men</td>
<td>per quarter</td>
<td>1.00</td>
</tr>
<tr>
<td>Physical Education for Women</td>
<td>All P.E. classes, or combination of P.E. classes other than those listed below.</td>
<td>1.50</td>
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<tr>
<td></td>
<td>4, 5, 6, 7, 8, 9, 10</td>
<td>.50</td>
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<td></td>
<td>95, 96, 97</td>
<td>1.00</td>
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<td></td>
<td>87, 88</td>
<td>3.50</td>
</tr>
<tr>
<td></td>
<td>94</td>
<td>6.00</td>
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<tr>
<td></td>
<td>All other P.E. courses or combination of P.E. courses combined</td>
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<tr>
<td></td>
<td>with 87, 88, or 94, 95, 96, 97—Special fee plus the regular fee of $1.50.</td>
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</table>
General Information

Physics—1, 2, 3, 4, 5, 6, 50, 51, 54, 89, 90, 97, 98, 99, 101, 105, 113, 115, 156, 170 ........................................ 2.00
154 ........................................................................... 4.00
Psychology—1 ................................................................ 1.50

Sociology—1 .................................................................. 1.50
56, 62, 158 .................................................................. 2.00
55, 142 ...................................................................... 2.50

Zoology and Physiology—1, 2, 3, 4, 5, 101, 102, 106, 107, 108, 111, 112, 121, 155, 156, 157 ..................................... 2.00
6, 7, 115 .................................................................... 3.00
125, 126, 127, 128 .......................................................... 3.50
53, 54, 55 .................................................................... 4.00
151, 152, 153 ................................................................ 5.00
201, 202, 203—$ .50 per credit hour.

BOARD AND ROOM

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

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

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

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

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

UNIVERSITY HEALTH SERVICE

The University maintains a health service which functions primarily in guarding against contagious and infectious diseases. Medical advice and emergency office treatment are available during school hours at the health service building; this building contains medical offices for both men and women, nurses offices and quarters, and a forty-bed infirmary. The University provides a corps of two physicians, one man and one woman, and several nurses who are at the service of the students. As a result of the entrance medical examinations, the students are classified; those found below par are followed up in an effort to apply remedial measures. Close cooperation is maintained with the family physician when possible, rather than in any way supplanting or taking the place of the private doctor.

If a student is taken ill and is unable to call at the medical office he should notify the infirmary clerk before the first class is missed, and the public health nurse will call upon the patient. Disposition of the case is determined on report of this visit. If the patient is a contagious suspect or in unsatisfactory quarters, he is taken to the infirmary and cared for free of cost, except for board at the rate of $1.50 per day. Scarlet fever and smallpox patients are sent to Firlands Sanitarium and cared for by the city. A local physician may be called in at any time at the patient's expense while he is in the infirmary.
Students absent from classes on account of sickness are not readmitted until they secure cards from the health service office. Record is thus kept of all illness and used as a guide for health supervision. (See Rule 22, page 77).

DEGREES

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

GENERAL RULES

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

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

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

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

Rule 12. The degrees of B.A. and M.A., 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 department as he thinks eligible for honors. Honors are not awarded to any student in more than one subject.

NORMAL DIPLOMAS

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

FELLOWSHIPS, SCHOLARSHIPS, PRIZES

FELLOWSHIPS

_Loretta Denny Fellowships._—Three fellowships, of $500 each, open to graduate students in any department of the University. Awarded by the faculty on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Application 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 which is acceptable to the appointing board. The salary will ordinarily be $1800 for the first year. Fellows are eligible for successive reappointments ordinarily with increase in salary. For details address the dean of the Graduate School or the heads of the departments.

_University Honorary Fellowships._—Three honorary fellowships have been established by the University. These, like the Loretta Denny fellowships, are open to students in any department of the University. They carry no stipend, and are designed to furnish recognition of exceptional scholastic excellence in the case of graduate students who are not eligible for the Loretta Denny or the Arthur A. Denny fellowships, either because they do not need financial assistance or because they are not giving their entire time to their work in the University.

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

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

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

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

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

**The Skagit Valley Goldenseal Farm Fellowship in Pharmacy.**—A research fellowship of $500 is offered annually to a graduate student in drug plant cultivation.

**Nakata Fellowship in Oriental Studies.**—Through the generosity of a public-spirited resident of Seattle, Mr. M. Nakata, an annual fellowship of $300 is available for a graduate student in the department of oriental studies who is a candidate for an advanced degree and is preparing for teaching or research on the Orient or for other professional activity in which knowledge of that field is useful. Graduates of recognized colleges or universities are eligible. For further information application should be made to the Dean of the Graduate School.

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

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

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

**Scholarships**

**Graduate Scholarships.**—A number of graduate scholarships are open to students who perform service as laboratory assistants, assistants in
General Information

charge of quiz sections, or readers. The remuneration is proportioned
to the service, and ranges from $180 to $360.

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

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

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

*The Frederick and Nelson Scholarship.*—Frederick and Nelson of Se­
attle 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 an­
nual 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 registra­
tion day.

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

*Mu Phi Epsilon Scholarship.*—Mu Phi Epsilon, national honorary
musical sorority, offers to a woman student a scholarship of one lesson
a week for a school year, in either voice, piano, violin, cello or organ.
(See College of Fine Arts section, page 174.)

*The Seattle Times Scholarship.*—A scholarship of $1000, offered by
the Seattle Times. This is to be awarded to a person who shall prepare
himself for clear entrance to the School of Journalism, and who, during
the enjoyment of the scholarship, will maintain scholastic requirements of
both the University and the School of Journalism.

*The Walker Cut Stone Company Scholarship.*—From the Walker Cut
Stone Company of Tacoma, a traveling scholarship in the amount of
$500, for use in the department of architecture. The student receiving
the scholarship must furnish an additional $500, making a total of $1000;
and must attend the School of Fine Arts at Fontainebleau, France, dur­
ing the three months' summer session, preparing a series of measured
detail drawings of Romanesque architectural stone mouldings and orna-
ments, the same to be published by the Walker Cut Stone Company for the use of architects.

The West Coast Lumber Bureau Scholarship.—From the West Coast Lumber Bureau, a traveling scholarship in wood architecture, in the amount of $1000, for use in the department of architecture. The junior student selected must familiarize himself with the lumber industry here, with different woods, mill methods, etc.; he must spend two months at the Fontainebleau School of Fine Arts in France; he must continue his studies of wood construction in Switzerland, completing two or three drawings; and upon his return, his work in pamphlet form must be distributed to architects in coast cities and elsewhere.

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

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

**SENIOR SCHOLARS**

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

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

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

**PRIZES**

The Judge Alfred Battle Prize in Public Speaking and Debate.—Judge Alfred Battle offers an annual cash prize of $50 to the Washington debating team chosen to meet representative debaters from the University of Oregon.
Judge Kenneth Mackintosh Prize in Debate.—Judge Kenneth Mackintosh offers an annual prize of $75 to the University of Washington debating team, consisting of two men, who compete with Stanford University in debate.

Fraternal Order of Eagles Prize.—Seattle Aerie No. 1 of the Fraternal Order of Eagles offers an annual prize of $100 for the best essay or oration on a selected topic by a student of the University of Washington.

Philoor Sherman Bennett Prize.—The Philo Sherman Bennett prize of $25 annually is “for the best essay discussing the principles of free government.”

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

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

The Charles H. Bebb Prize in Architecture.—Mr. Charles H. Bebb offers a prize of $50 in the department of architecture to the sophomore, junior or senior student who submits the best design in the terra cotta treatment.

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

The Frank Buty Prize.—The Frank Buty prize of $20 is offered 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 gold medal to the student in the University who attains distinction in Italian.

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

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

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

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 Helen Boetzkes Prize in German.—In memory of her mother, Miss Ottilie G. Boetzkes offers an annual prize of $50 to the student in the department of Germanic Languages and Literature who writes the best essay in German on some phase of the German novel.
The Washington Mutual Savings Bank Prizes.—The Washington Mutual Savings Bank offers three prizes, of $100, $50 and $25 respectively, to undergraduate students in the University for the best essays on selected topics in business finance.

The Northwest Concrete Products Association Prize.—A prize of $200 given by the Northwest Concrete Products Association, to be awarded to one or several students in the department of civil engineering for investigation and study in concrete, especially along lines that will be beneficial to the concrete products industry.

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.

The American Pharmaceutical Association Medal.—The American Pharmaceutical Association offers a gold medal each year to a student who attains distinction in pharmacy.

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

STUDENT WELFARE AND VOCATIONAL GUIDANCE

MEN'S PERSONNEL OFFICE
The directors of the Men's Personnel Office are concerned with the welfare of the men students of the University. They confer with them on all questions affecting their personal or group interests. Among other duties they hold consultation with students concerning scholastic work, vocational guidance and schedules.

Help is given students seeking part time employment. General housing conditions are under the direction of the Faculty Committee on Student Welfare.

A list of boarding places for men, however, is kept in the personnel office. This office is represented on the faculty committee on Student Welfare and the Committee on Student Loans.

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

STUDENT EMPLOYMENT
Many students who find it necessary to support themselves in part or wholly at the University have been enabled to do so through an employment bureau for men conducted by the Y. M. C. A. and by aid of the men's personnel directors. 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 stu-
dents. During periods of business depression it is especially difficult to obtain part-time work. It is not advisable that anyone should enroll unless provided with sufficient funds to maintain himself for a quarter. A suggested amount for this purpose is $200. Students expecting to earn a portion of their support should not register for a full schedule.

BUREAU OF APPOINTMENTS

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

ASSOCIATIONS AND CLUBS

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

Associated Students.—The Associated Students of the University of Washington (A.S.U.W.) is the central organization which conducts the activities of the student body. Membership is required of all regularly enrolled undergraduate students. The annual fee is $10. ($1 for summer quarter.) This fee gives each student a membership in the corporation, including a free subscription to the University of Washington Daily and free or reduced admission to such football, basketball, baseball games, tennis, track and wrestling meets, crew regattas, debates, oratorical contests, musical concerts as may be designated by the Board of Control.

The management of the Associated Students is vested in an annually elected Board of Control, composed of nine students, three faculty and three alumni. The Board meets bi-weekly and has all the usual powers vested in the directorate of any corporation. The Board employs a graduate manager as its executive agent. He is assisted by student managers, and in 1927 the business transacted amounted to $910,000. The office of the graduate manager is in room 101 Education Hall. The department has twenty-five employees.

The Board employs a manager of the A.S.U.W. bookstore. In 1927 the sales amounted to $302,000.

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

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

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

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

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

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


**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.
General Information

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

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

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


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

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

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

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

GENERAL SCHOLASTIC REGULATIONS

Studies

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

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

Requirements in Military Science and Physical Education

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

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

Each student registering in this department will be required to provide himself with the uniform adopted by the University in lieu of the government uniform formerly worn. For particulars, see Military Science and Tactics, page 304.

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

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

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

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

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

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

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

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

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

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

REGULATIONS FOR WITHDRAWAL

Withdrawal is the voluntary severance by a student of his connection with a course or with the University and is indicated on the registrar's books by a "W." During the first four weeks of a quarter a student may withdraw from a course and be given a "W" with the written consent of his dean and his instructor. If he desires to withdraw from a course at a later period, he may do so at any time prior to the last two weeks of the quarter, 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

Rule 22. A leave of absence from the University, involving excuses from classes, may be granted by the dean concerned except as hereinafter provided.

(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 (a) may be granted by instructors.

(c) Leave of absence from the University for recognized student activities (music, debate, etc.), for student conferences, elections and athletic meets on the campus, shall be passed on by the men's personnel directors and the dean of women, respectively.
For the purpose of applying rules concerning scholarship, students of the University will be divided into two groups; lower division students, (i.e., those with not more than 100 credits) and upper division students, (i.e., those with more than 100 credits).

Lower Division Rules:—

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

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

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

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

Upper Division Rules:—

(e) Any student who, at the end of any quarter fails to make grades of A, B, or C in at least two-thirds of his registered hours shall be dropped.

All Students:—

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

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

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

Examinations

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

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

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

Under "Departments of Instruction" 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 ............................................. Intermediate  
   D .............................................. Low Pass  
   E .............................................. Failed  
   I ............................................. Incomplete  
   W ........................................... Withdrawn  

   Although D is a low passing grade, it represents such a poor quality of scholarship that only a limited number of such grades will be allowed. See Rule 23 Sec. D and E.

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

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

*These grades correspond approximately to the old marking scheme as follows: A, 100-96; B, 95-88; C, 85-78; D, 75-70; E, 70-0.
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:

<table>
<thead>
<tr>
<th>No. in Class</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$2.00 per student</td>
</tr>
<tr>
<td>2</td>
<td>1.20 per student</td>
</tr>
<tr>
<td>3</td>
<td>1.00 per student</td>
</tr>
<tr>
<td>4</td>
<td>.90 per student</td>
</tr>
<tr>
<td>5</td>
<td>.80 per student</td>
</tr>
<tr>
<td>6</td>
<td>.70 per student</td>
</tr>
<tr>
<td>7-15</td>
<td>5.00 per class</td>
</tr>
</tbody>
</table>

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 the 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
General Information

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.

(e) The editorship and business managership of all authorized student publications.


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.

3. Be registered for at least twelve hours' work in a regular or special course as defined in the curriculum of his school or college.

4. Have passed ten credits of the curriculum in which he is enrolled for the quarter of residence previous to participation. Fractional hours are to be disregarded in favor of the participant.

5. Not have a total of failures on his previous record, in this or any other institution, exceeding one-fifth of his total hours earned.

6. Keep off probation.

7. Secure a written leave of absence, if his absence from classes is required by participation.

(b) An incomplete shall not be counted as failure or passed until adjusted.
(c) The foregoing general rules shall apply to the editors-in-chief and business managers of all authorized student publications. Eligibility in those cases listed under Rule 38(e) shall be ascertained and enforced by the Dean of the School of Journalism.

(d) All elective officers of the A.S.U.W., head student managers, members of the executive committee and council of the Women's Federation, Y.M.C.A. and Y.W.C.A. presidents, and class officers, must comply with these general eligibility rules. Eligibility in the cases listed under 38(f) shall be ascertained and enforced by the committee on Student Welfare.

(e) The current records of all students engaged in student activities as defined in Rule 38, shall be checked at the beginning of each quarter and at the end of the first six weeks of each quarter. Students not having passed successfully in ten units the preceding quarter or not carrying successfully ten units at the end of the first six weeks of the current quarter shall be denied participation for the quarter or for such portion of the quarter as remains.

(f) A student, to be eligible to take part in any intramural meet or game under the control of the department of physical education, must pass any physical tests set by the department of physical education, and practice at least one month before any intramural meet or game. Eligibility in these cases shall be determined by the heads of the department of physical education for men and women respectively.

SPECIAL

Group I

Athletics.

(a) In order to be eligible to represent the University in any intercollegiate 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. A student, all of whose college work has been done in a Junior College, who transfers to a conference institution with a minimum of 36 quarter hours' credit, shall be eligible immediately to two years varsity competition, but such transfer shall not be eligible to freshman competition.
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 participation. All members of the squad found eligible one week before the first conference game shall be declared scholastically eligible for the season in question; provided, that in cases of moral delinquency no previous notice shall be required to disqualify.
5. Pass any physical tests set by the department of physical education.
6. Have registered not later than three weeks after the first day of registration in the quarter in which he desires to compete.

(a) 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.

(b) 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.

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

Group II

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

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

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

Group III

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

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

Miscellaneous

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

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

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

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

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

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

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

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

(d) During the college year, picnics may be held only on 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 shall have earned 18 credits in two quarters, or 15 in one quarter, at this University; provided the required credits in physical education or military science shall not be counted.

(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

ADMINISTRATIVE OFFICERS

Spence, Matthew Lyte, Ph.D. (Chicago); LL.D. (Northwestern). President of the University
Thomson, David, B.A. (Toronto) ..................................................Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ..................................Assistant Dean of Faculties

THE FACULTY, 1928-29

PROFESSORS

Thomson, David, B.A. (Toronto) ..................................................Professor of Latin; Dean of the College of Liberal Arts
Benham, Allen Rogers, Ph.D. (Yale) ...........................................Professor of English
Blake, Ralph Mason, Ph.D. (Harvard) ..........................................Professor of Philosophy
Bolton, Frederick Elmer, Ph.D. (Clark) ......................................Professor of Education; Dean Emeritus of the School of Education
Carpenter, Allen Fuller, Ph.D. (Chicago) .....................................Professor of Mathematics
Coon, Shirley Jay, Ph.D. (Chicago) ............................................Professor of Economics and Business Administration
Cory, Herbert E., Ph.D. (Harvard) ..............................................Professor of Liberal Arts
Cox, Edward Godfrey, Ph.D. (Cornell) .......................................Professor of English
Frein, Pierre Joseph, Ph.D. (Johns Hopkins) ...............................Professor of Romance Languages
George, William H., Ph.D. (Harvard) .........................................Professor of Political Science
Griffith, Dudley David, Ph.D. (Chicago) ......................................Professor of English
Guthrie, Edwin Ray, Ph.D. (Pennsylvania) .................................Professor of Psychology
Harvey, Edward Leon, A.M. (Oxford) .......................................Visiting Professor of History
McKenzie, Roderick Duncan, Ph.D. (Chicago) ............................Professor of Sociology
McMahon, Edward, A.M. (Wisconsin) ........................................Professor of American History
Martin, Charles E., Ph.D. (Columbia) ........................................Professor of Political Science
Meaney, Edmond E., M.L. (Wisconsin), LL.D. (College of Puget Sound) Professor of History
Moritz, Robert Edouard, Ph.D. (Strasbourg) ..............................Professor of Mathematics
Ober, Caroline Haven, Normal (Mass. Normal) ...........................Professor of Spanish
Orr, Frederick Wesley, A.M. (Lawrence) ....................................Professor of English
Padelford, Frederick Morgan, Ph.D. (Yale) .................................Professor of English; Dean of the Graduate School
Parrington, Vernon Louis, A.B. (Harvard), A.M. (Emporia) ..........Professor of English
Preston, Howard Hall, Ph.D. (Iowa) ...........................................Professor of Economics and Business Administration
Raitt, Effie Isabel, A.M. (Columbia) ..........................................Professor of Home Economics
Randolph, Edgar Dunnington, Ph.D. (Columbia) ........................Professor of Education
Richardson, Oliver Huntington, Ph.D. (Heidelberg) ....................Professor of European History
Savery, William, Ph.D. (Harvard) .............................................Professor of Philosophy
Sidler, Thomas Kay, Ph.D. (Chicago) ........................................Professor of Latin and Greek
Skinner, Macy Milmore, Ph.D. (Harvard) ..................................Professor of Economics and Business Administration
Smith, Stevenson, Ph.D. (Pennsylvania) .....................................Professor of Psychology
Stuart, Graham, Ph.D. (Wisconsin) ..........................................Visiting Professor of Political Science
Umphrey, George Wallace, Ph.D. (Harvard) ...............................Professor of Romance Languages
Vickner, Edwin John, Ph.D. (Minnesota) .................................Professor of Scandinavian Languages
Winger, Roy M., Ph.D. (Johns Hopkins) ....................................Professor of Mathematics
Woolston, Howard B., Ph.D. (Columbia) ....................................Professor of Sociology

ASSOCIATE PROFESSORS

Denny, Grace Goldena, A.M. (Columbia) .................................Associate Professor of Home Economics
Densmore, Harvey Bruce, B.A. (Oxford) ....................................Associate Professor of Greek
DeVries, Louis Peter, Ph.D. (Wisconsin) ...................................Associate Professor of Romance Languages
Esper, Erwin A., Ph.D. (Ohio State) ........................................Associate Professor of Psychology
Goggie, Charles, Ph.D. (Wisconsin) .........................................Associate Professor of Romance Languages
Harrison, Joseph Barlow, B.A. (Oxford) ..................................Associate Professor of English
McMahon, Theresa Schmid, Ph.D. (Wisconsin) .............................Associate Professor of Economics
MacNair, Harley F., Ph.D. (California) .....................................Associate Professor of Political Science
Millman, Loren Douglas, A.B. (Michigan) .................................Associate Professor of English
Patzer, Otto, Ph.D. (Wisconsin) ................................................Associate Professor of French
Price, Morris T., Ph.D. (Chicago) ............................................Associate Professor of Sociology
Stone, Edward Noble, A.M. (Olivet) .........................................Associate Professor of Classical Languages
Assistant Professors

Ballantine, John Perry, Ph.D. (Chicago) Assistant Professor of Mathematics
Bliss, Addie Jeannette, A.M. (Columbia) Assistant Professor of Home Economics
Chessex, Jean C. W., M.A. (Lausanne) Acting Assistant Professor of French
Cole, Kenneth, B.Lit. (Oxford) Assistant Professor of Political Science
Creer, Leland Hargrave, Ph.D. (California) Assistant Professor of History
Draper, Edgar Marion, Ph.D. (Washington) Assistant Professor of Education
Dressler, Martha Estella, M.S. (Columbia) Assistant Professor of Home Economics
Dvorske, August, Ph.D. (Minnesota) Assistant Professor of Education
Edelman, Ernest Otto, Ph.D. (Heidelberg) Assistant Professor of Germanic Languages
Garcia-Prada, Carlos A., A.Y. (Michigan) Assistant Professor of Mathematics
Grintin, Eldon, A.B. (Harvard) Assistant Professor of Oriental Studies
Groth, John H., Ph.D. (Columbia) Assistant Professor of English
Haynie, Norman Sylvester, Ph.D. (Chicago) Assistant Professor of Sociology
Holmblad, Charles Louis, M.A. (Washington) Assistant Professor of Romance Languages
Hughes, Glenn Arthur, M.A. (Washington) Assistant Professor of English and Dramatic Art
Langford, Cooper H., Ph.D. (Harvard) Assistant Professor of Philosophy
Lucas, Henry, Ph.D. (Michigan) Assistant Professor of History
McFarlan, Lee H., Ph.D. (Missouri) Assistant Professor of Mathematics
Mander, Lindon Alfred, M.A. (Adelaide, Australia) Assistant Professor of Political Science
Mullemelser, Hermance, Ph.D. (Cambridge) Assistant Professor of Mathematics
Neitz, Lewis L., Ph.D. (Pennsylvania) Assistant Professor of Mathematics
Payne, Blanche, B.S. (Columbia) Assistant Professor of Home Economics
Read, William Merritt, Ph.D. (Michigan) Assistant Professor of Classical Languages
Rivers, Elizabeth Ann, M.A. (Columbia) Acting Assistant Professor of Home Economics
Rhaskopf, Horace, M.A. (Iowa) Assistant Professor of English
Rowntree, Josie Irene, M.S. (Chicago) Assistant Professor of Home Economics
Small, George W., Ph.D. (Johns Hopkins), B.Lit. (Oxford) Assistant Professor of English
Stern, Bernhard J., Ph.D. (Columbia) Assistant Professor of Sociology
Wait, Bernice, M.A. (Illinois) Acting Assistant Professor of Home Economics
Williams, Curtie Talmaide, Ph.D. (Clark) Assistant Professor of Education
Winther, Sophus Kelth, Ph.D. (Washington) Assistant Professor of English
Zanastra, Herman, Ph.D. (Minnesota) Assistant Professor of Astronomy and Mathematics

Instructors

Meiselst, Frederick William, Ph.D. (Wisconsin) Lecturer in German
Sperlin, Otis Bedney, Ph.B. (Chicago) Lecturer in English

Assistant Professors on leave:

1 Absent on leave.
ASSOCIATES

Ballaine, Genevieve Knight, A.B. (Olivet) .................. Associate in Latin
Brown, Lois, M.A. (Washington) .......................... Associate in English
Brown, Sarah H., M.A. (Washington) .................. Associate in Philosophy
Buchanan, Iva, M.A. (Washington) .................. Associate in History
Cappon, Alexander C., M.A., Ph.B. (Chicago) ............... Associate in English
Cedarstrom, Mytie F., M.A. (Minnesota) .................. Associate in English
Cornn, Donald, Ph.D. (Washington) .................. Associate in English
Garcia, Eduardo C., M.A. (California) .................. Associate in Spanish
Hall, Amy Violet, M.A. (Washington) .................. Associate in English
Hamilton, Rachel, M.A. (Washington) .................. Associate in French
Hathway, Marion, M.A. (Chicago) .................. Associate in Sociology
Jones, Pamela Pearl, A.M. (Iowa State) .................. Associate in English
Kerrigan, Sylvia Finlay, M.A. (Washington) .................. Associate in English
Lawson, Jane S., M.A. (Saint Andrews) ............... Associate in English
Lewis, Hunter Campbell, M.A. (British Columbia) .................. Associate in English
Mark, Sara N., M.A. (Washington) .................. Associate in English
Nix, Martha, M.A. (Washington) .................. Associate in German
Peterson, Sigurd H., B.A. (Washington) .................. Associate in English
Phillips, Herbert, B.A. (Washington) .................. Associate in Philosophy
Schmit, Calvin, B.A. (Washington) .................. Associate in Sociology
Shephard, Esther, M.A. (Washington) .................. Associate in English
Southwick, Charles, A.M. (Washington) .................. Associate in French
Schertel, Max, B.A. (Washington) .................. Associate in German
Vickner, Bertha Almen, M.A. (Washington) .................. Associate in English
Vogt, Edward, A.M. (Chicago) .................. Associate in English
Wesner, Eleanor, A.M. (Northwestern) .................. Associate in German
Wilson, William, M.A. (Washington) .................. Associate in Spanish

COOPERATING FACULTY

Foster, Henry M., A.M. (Columbia) .... Assistant Professor of Men's Physical Education
Glen, Irving Mackey, A.M. (Oregon) .... Professor of Music; Dean of the College of Fine Arts
Goodspeed, George Edward, Jr., B.S. (Mass. Inst. of Tech.) .... Associate Professor of Geology
Gross, Mary Emma, A.M. (Columbia) .... Associate Professor of Physical Education for Women
Hall, David Connolly, Sc.M., M.D. (Chicago) .... University Health Officer; Professor of Hygiene
Jones, Robert W., A.M. (South Dakota) .... Associate Professor of Journalism
Kincade, Trevor, M.A. (Washington) .... Professor of Zoology
Lovejoy, Albert R., B.L.I. (Emerson) .... Acting Assistant Professor of Dramatic Art
Osborn, Frederick Arthur, Ph.D. (Michigan) .... Professor of Physics
Riggs, George Burton, Ph.D. (Chicago) .... Professor of Botany
Smith, George McPhail, Ph.D. (Freiburg) .... Professor of Inorganic Chemistry

DEPARTMENT EXECUTIVE OFFICERS

Anthropology .................. Jacobs, Melville ............... 101 Museum
Classical Languages and Literature ........... Siedel, Thomas K. .... 210 Denny Hall
English .................. Griffith, Dudley D. .... 220 Denny Hall
Germanic Languages and Literature ........... Eckeltman, Ernest O. .... 315 Home Economics Hall
General Literature .................. DeVries, Louis P. .... 209 Denny Hall
History .................. Meany, Edmond S. .... 201 Denny Hall
Liberal Arts .................. Cory, Herbert E. .... 214 Denny Hall
Oriental Studies .................. Gowen, Herbert Henry .... 315 Philosophy Hall
Philosophy .................. Savery, William .... 204 Philosophy Hall
Political Science .................. Martin, Charles E. .... 235 Philosophy Hall
Romance Languages and Literature ........... Frew, Pierre Joseph .... 209 Denny Hall
Scandinavian .................. Vickner, Edwin John .... 208 Denny Hall
Sociology .................. McKenzie, R. D. .... 234 Philosophy Hall
College of Liberal Arts

I. General Statement

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

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration and expenses, may be found on pages 52, 59 and 60.

II. Revised Entrance Requirements

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

1. Not more than three units in vocational or technical subjects.
2. At least eight units from academic groups (English, Mathematics, Natural Science, Social Science, Foreign Language) so chosen as to include:
   a. Two units of English
   b. Two units of one foreign language
   c. One unit of geometry.

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

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

Recommending Grades.—For the year beginning with the Autumn Quarter of 1928-29, a minimum of eight units must be represented by grades which are at least one step above the passing mark when letters are used to designate grades, or above the passing percentile grade at least one-fourth of the difference between the passing grade and 100 per cent. Such grades shall be known as recommending grades. Beginning with the autumn quarter of 1929-30, and thereafter, nine such units will be required. No student may be accepted for admission from a high school who would not be recommended to the University of his home state.
Requirements for Admission

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

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

1. By repeating the necessary subjects in the high school.
2. By attending the Summer High School.
3. By taking regular fall deficiency examinations in the high school after having made provision therefor early in the summer.
4. By taking the entrance examinations in the University.

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

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

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

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

High School Deficiencies.—A student is advised not to attempt to enter the College of Liberal Arts until he is able to do so without deficiencies. In rare circumstances, and with the approval of the dean, certain deficiencies may be removed after entrance to the college; but such deficiencies must be made up in college as part of the student's regular schedule of work without college credit therefor. Unsatisfied prerequisites take precedence over other subjects. Any student having any unsatisfied entrance prerequisite must register for the work each quarter until the deficiency is removed. In special cases, permission to postpone the removal may be granted by the dean. A student has the privilege of making up his deficiency in high school, but must reduce his schedule in college accordingly while doing so.

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

1. U. S. History and civics............................... 1 unit
2. History other than U. S........................... 1 unit
3. Physics or Chemistry, with laboratory.............. 1 unit
4. Botany, Geology, or Zoology with laboratory........ 1 unit
5. Mathematics, Language, History, or one of the sciences mentioned in 3 or 4............................. 1 unit
6. Electives, selected from subjects accepted by an accredited High School for its diploma........... 3 units
Less than one unit will not be counted in physics, chemistry, general biology or a foreign language. A maximum of 4 units will be counted in vocational subjects.

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

*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.

For description of special orientation course for non-English speaking students see General Information section, page 57.

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

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

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

### III. LOWER DIVISION

*Specific Requirements.*—The work of the lower division comprises studies of the freshman and sophomore years of the undergraduate curriculum. A student is said to be enrolled in the lower division until he has completed all such courses as are required during the first two college years, and until he has attained a minimum of 90 scholastic credits. Specific requirements are listed on the following page.
### Requirements for Admission

<table>
<thead>
<tr>
<th>REQUIREMENTS</th>
<th>EXEMPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2. History, other than U. S. May be satisfied by 1-2; or 5-6; or 71-72-73</strong></td>
<td>One year of any History other than U. S. in High School</td>
</tr>
<tr>
<td><strong>3. English 1-2; ten credits</strong></td>
<td>Exemption by examination only</td>
</tr>
<tr>
<td><strong>4. Ancient Life and Literature (in translation)—ten credits. May be satisfied by “a” or “b” or “c”</strong></td>
<td>Three years of ancient language in High School or College, or in High School and College combined.</td>
</tr>
<tr>
<td>a. Any two: Latin 11, 13, Greek 11, 13, or</td>
<td></td>
</tr>
<tr>
<td>b. Any two: Ori Studies 50, 51, 52, or</td>
<td></td>
</tr>
<tr>
<td>c. Greek 15-16</td>
<td></td>
</tr>
<tr>
<td><strong>5. Physical Science—ten credits, of either:</strong></td>
<td>One year of one in high school</td>
</tr>
<tr>
<td>a. Physics 4-5</td>
<td></td>
</tr>
<tr>
<td>b. Physics 89-90 (Women only)</td>
<td></td>
</tr>
<tr>
<td>c. Chemistry 1-2</td>
<td></td>
</tr>
<tr>
<td><strong>6. Biological Science—ten credits from one of the following groups:</strong></td>
<td>One year of one in high school</td>
</tr>
<tr>
<td>a. Botany 1, 2, 3, 4;</td>
<td></td>
</tr>
<tr>
<td>b. Botany 105, 106, 107;</td>
<td></td>
</tr>
<tr>
<td>c. Geology 1a-1b-2;</td>
<td></td>
</tr>
<tr>
<td>d. Geology 1a-1b, 21;</td>
<td></td>
</tr>
<tr>
<td>e. Geology 1a-1b, Geography 1 or 11;</td>
<td></td>
</tr>
<tr>
<td>f. Geology 1a-1b, Geography 112;</td>
<td></td>
</tr>
<tr>
<td>g. Geography 1 and 11 or 101 or 103;</td>
<td></td>
</tr>
<tr>
<td>h. Zoology 1-2;</td>
<td></td>
</tr>
<tr>
<td><strong>7. Social Science—ten credits of one or five credits each of two. May be satisfied by:</strong></td>
<td>No exemption. (Students who did not have civics in High School must have Political Science 1.)</td>
</tr>
<tr>
<td>a. Any two of—Economics 1, Political Science 1, Sociology 1, or by</td>
<td></td>
</tr>
<tr>
<td>b. Any one of courses in “a”, together with another five credit course for which it is a prerequisite.</td>
<td></td>
</tr>
<tr>
<td><strong>8. Psychology 1; five credits</strong></td>
<td>No exemption</td>
</tr>
<tr>
<td><strong>9. Philosophy; 5 credits. May be satisfied by 1 or 2 or 3 or 5</strong></td>
<td>No exemption (Not open to freshmen)</td>
</tr>
<tr>
<td><strong>10. Military Science or Physical Education; ten credits</strong></td>
<td>No exemption</td>
</tr>
</tbody>
</table>
Planning Schedules in Lower Division.—As a rule students in the lower division must confine their election to courses numbered 1 to 99 in the catalogue. If a student has had the proper prerequisite or is deemed qualified in intellectual maturity he may register for an upper division course with the consent of the dean and instructor concerned. If a student avails himself of this privilege he should be careful not to allow it to interfere with the completion of all the requirements of the first two years.

IV. UPPER DIVISION

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

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

V. SCHOLARSHIP STANDING

Student Classification.—For the purpose of applying rules concerning scholarship, students of the University will be divided into two groups; lower division students, (i.e. those with not more than 100 credits) and upper division students, (i.e. those with more than 100 credits).

Lower Division Students.—Rule 23:
(a) Any student who, any time in a quarter, is reported to the Registrar as doing work below passing grade in any subject shall be warned.
(b) Any student failing to make grades of A, B, or C, in two-thirds of his registered hours for any quarter shall be warned.
(c) Any student who, at the end of any quarter, fails in more than one-third of his registered hours, shall be dropped.
(d) Any student who, at the end of the winter or spring quarters, has failed to make grades of A, B, or C, in at least two-thirds of his registered hours for two quarters of the current regular academic year, shall be dropped.

Upper Division Students.—Rule 23:
(e) Any student who, at the end of any quarter has failed to make grades of A, B, or C, in at least two-thirds of his registered hours shall be dropped.

All Students.—Rule 23:
(f) Reinstatement of a student disqualified under the provisions of this rule shall be allowed only on permission of the board of deans. If a student is reinstated, he shall be on probation, and shall register under conditions prescribed by his dean, who shall be his registering officer.
(g) Probation is the status of a student who, having been dropped for scholastic failures but reinstated by the board of deans, is compelled to pass in all his registered hours. Such a student shall remain on pro-
Requirements for Admission

bation until he has made grades of A, B, or C in at least ten credit hours for one quarter.

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

VI. MAJORS AND ELECTIVES

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

Majors Offered.—The following are the departments from which a candidate for the B. A. degree must select his major:

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits Required</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>36-60</td>
<td></td>
</tr>
<tr>
<td>Economics</td>
<td>36-60</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>36-60</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>36-60</td>
<td></td>
</tr>
<tr>
<td>General Literature</td>
<td>36-60</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td>36-60</td>
<td></td>
</tr>
</tbody>
</table>

Students should consult with the executive officer of a department before registering for courses in their prospective major. Students who consider majoring in one of the above departments will avoid delays and inconveniences by consulting early, preferably in their freshman year, with the executive officer of the department concerning all the lower division courses which they ought to take. For suggestions to students intending to enter the Schools of Education, Journalism, Law, or Library Science see pages 97-103.

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

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

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

Majors in Home Economics must present a total of seventy-two credits in Home Economics and related courses in the following departments: Architecture, bacteriology, chemistry, painting, sculpture and design, physics, physiology.

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

Economics Majors.—Liberal Arts students majoring in economics must take courses 1, 2, and 160 and at least 35 additional credits in courses from the following list:
### College of Liberal Arts

<table>
<thead>
<tr>
<th>60. Labor in Industry</th>
<th>129. Taxation</th>
</tr>
</thead>
<tbody>
<tr>
<td>61. Social and Economic Standards of Living</td>
<td>130. Economics of Public Utilities</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>150. Advanced Money and Banking</td>
</tr>
<tr>
<td>104. Economics of Transportation</td>
<td>161. Labor Problems</td>
</tr>
<tr>
<td>105. Economics of Marketing and Advertising</td>
<td>162. European Labor Problems</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>164. Land Economics and Real Estate</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>165. Labor Legislation</td>
</tr>
<tr>
<td>122. Principles of Investment</td>
<td>166. Women in Industry</td>
</tr>
<tr>
<td>169. Advanced Money and Banking</td>
<td>171. Modern Trends and Criticism</td>
</tr>
<tr>
<td>161. Labor Problems</td>
<td>181. Economics of Consumption</td>
</tr>
</tbody>
</table>

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

### Scheme of Electives

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

### VII. Schedule Limitations

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

**Outside Work.**—In addition to a load of 16 plus 1½ hours a student may carry a maximum of 8 hours per week outside work without special permission. But if he carries more than 8 hours of outside work, he must have the dean's signature for excess hours, each 3 hours of outside work counting the same as one credit hour. A student who is obliged to do outside work must enter on his registration blank a statement of the nature of the work and the number of hours per week so used. In considering petitions for reinstatement the Board of Deans shall take no cognizance of outside work if it has not been noted on the student's registration blank.

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

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

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

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

### VIII. Requirements for the Degree of Bachelor of Arts

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

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

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

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

Residence Work.—A minimum of three full quarters of residence in the senior year, with completion of 36 credits, is required for any degree granted by the University. Senior standing is attained when 135+10 hours have been completed.

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

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

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

Knowledge of Federal and State Constitutions.—A requirement for any degree granted by this University is a knowledge of the Federal and State constitutions. For further information, see the announcement under Political Science 101 in the Departments of Instruction section, page 337.

Application for Degree.—Each senior shall, upon registration, file with the registrar a written application for his degree. Each application shall be checked by the committee on graduation at least six months before the date on which the student expects to be graduated and notice shall be sent to the student by the registrar of the acceptance or rejection of his application. The accepted list shall be submitted at the last regular meeting of the faculty for the quarter in which the checking is done. If approved by the faculty, with or without modification, it shall constitute the list of candidates to be recommended for graduation upon the completion of the work required for their respective degrees. No change shall be made in this list unless ordered by a two-thirds vote of the members of the faculty present. Applicants who are late in filing their applications cannot be assured of recommendation to the faculty, or of consideration of petitions for modification of requirements. In determining
the fitness of a candidate for a degree, his attitude towards his financial obligations shall be taken into consideration.

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

IX. GENERAL REGULATIONS

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

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

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

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

Incompletes.—An incomplete is given only in case the student has been in attendance and done satisfactory work to within two weeks of the close of the quarter. The two-week limit may be extended to three weeks in those cases in which a student has obtained a regular leave of absence from his dean. (This extension of time shall not apply to one-term summer courses). An incomplete in a course is convertible into a passing grade only during the next quarter in which the student is in residence, and provided the work of the course shall have been completed in a satisfactory manner. In special and rare cases removal of an incomplete may be deferred by the dean.
Pre-Journalism Curriculum

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

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

Departments of Instruction.—All courses of study offered in the University are listed and briefly described in the Departments of Instruction section, page 229. This is also published as a separate bulletin. The student is referred to it for all information in regard to courses.

X. Pre-Journalism Curriculum

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

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

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

FIRST YEAR

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch. 3. Appreciation</td>
<td>2</td>
</tr>
<tr>
<td>Econ. 1. Intro. Gen. Econ</td>
<td>5</td>
</tr>
<tr>
<td>Eng. 15. Typewriting</td>
<td>0</td>
</tr>
<tr>
<td>English 1. Compos.</td>
<td>5</td>
</tr>
<tr>
<td>Hist. 66.66. Lit. Backgrounds</td>
<td>9</td>
</tr>
</tbody>
</table>

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 foreign language in the University without credit.
XI. Pre-Law Curriculum.—Two-Year Course

Admission.—To be admitted from the College of Liberal Arts to regular standing in the Law School students who are candidates for the LL. B. degree only, must have earned 90 credits and have completed the requirements of the lower division prescribed for the College of Liberal Arts on page 91.

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

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

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

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

2 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.
Pre-Law Curriculum

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

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

<table>
<thead>
<tr>
<th>Anthropology 51</th>
<th>Political Science 119, 120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy 1</td>
<td>Sociology 1</td>
</tr>
<tr>
<td>Liberal Arts 1, 11</td>
<td>English 38, 40</td>
</tr>
<tr>
<td>Latin 1-2, 3, 4, 5, 6</td>
<td>English 51, 52, 53</td>
</tr>
<tr>
<td>B. A. 65</td>
<td>English 54, 55, 56</td>
</tr>
<tr>
<td>B. A. 15, 16</td>
<td>English 64, 65, 66</td>
</tr>
<tr>
<td>B. A. 1, 2</td>
<td>English 73, 74, 75</td>
</tr>
<tr>
<td>Political Science 1</td>
<td>History 105, 106, 107</td>
</tr>
<tr>
<td>Political Science 118</td>
<td>History 108, 109, 110</td>
</tr>
</tbody>
</table>

XII. Pre-Law Curriculum—Three-Year Course

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

In exceptional cases where the student lacks the 144 liberal arts or science credits, the Dean of the Law School may, upon written petition, permit registration in the law school, the necessary credits to satisfy the combined degree to be completed subsequently.

Selection of Major.—In the 144 credits must be included a major of at least 36 credits, together with all the requirements of the lower division. At least one-half of the credits in the major must be earned in upper division courses. The major must be selected by the students taking the combined six-year course upon acquiring junior standing (which is usually at the commencement of their third year of liberal arts study), pursuant to the regulations relating to majors prescribed for the College of Liberal Arts on page 93. Any of the majors there enumerated may be profitably pursued by pre-law students.
Transfer Law Students.—Students from other institutions entering this University with advanced standing may take advantage of this combined six-year course, provided they are registered in the College of Liberal Arts for at least one full year of work, and earn at least 45 credits in the University before entering the School of Law. This 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.

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

XIII. PRE-LIBRARY CURRICULUM

Admission.—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 at least twenty college credits each in German and French. Other modern languages may be substituted with the consent of the dean.

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 twenty college credits each in German and French, and ten credits in Military Science, or Physical Education, and including all required work. However, students who lack not more than fifteen credits of senior standing (including the languages required above) may be admitted with permission of the dean, but such students must complete the 180 plus 10 hours required for graduation.

Initial admission to classes in the Library School is permitted only at the beginning of the college year in October except by special permission of the Dean of the Library School. No one may be admitted to any course in the Library School curriculum except as an auditor, unless he is expecting to complete the entire curriculum.

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

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

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

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1-2. Composition, unless exempted by examination</td>
<td>10</td>
<td>Music 13. Appreciation</td>
</tr>
<tr>
<td>70,71,72. Shakespeare</td>
<td>9</td>
<td>#Mod. Lang. #French or German</td>
</tr>
<tr>
<td>64,65,66. Lit. Backgrounds</td>
<td>9</td>
<td>Psychology 1. #General</td>
</tr>
<tr>
<td>History 1-3. Medieval and Modern</td>
<td>10</td>
<td>Lib. Arts 1. Intro. to Mod. Thought.</td>
</tr>
<tr>
<td>5-6. Eng. Pol. and Social</td>
<td>10</td>
<td>Arch. 3. Appreciation</td>
</tr>
<tr>
<td>#Science, Bot., Geol. or Zool.</td>
<td>10</td>
<td>#Latin 11, 18. Rom. Civ. and Lit.</td>
</tr>
</tbody>
</table>

*These requirements may be satisfied in high school or in college.
*The Library School requires twenty hours each of French and German in either high school or college.
*Students who have taken, or plan to take three or more years of ancient language may omit this requirement. Classical language requirement may be satisfied by either Latin or Greek.
**Pre-Education Curriculum**

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pol. Sci. 1, Comparative Gov’t.</td>
<td>5</td>
</tr>
<tr>
<td>2. Sociology 21, Introduction</td>
<td>5</td>
</tr>
<tr>
<td>3. Econ. 11, Introduction</td>
<td>5</td>
</tr>
<tr>
<td>4. Geog. Background of Industry</td>
<td>5</td>
</tr>
<tr>
<td>5. Social and Econ. Standards</td>
<td>5</td>
</tr>
<tr>
<td>7. Oriental Studies 50, 51, 52</td>
<td>5</td>
</tr>
</tbody>
</table>

**CREDITS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod. Lang.</td>
<td>5</td>
</tr>
<tr>
<td>Complete Library School</td>
<td>10</td>
</tr>
<tr>
<td>Phil.</td>
<td>5</td>
</tr>
<tr>
<td>History</td>
<td>5</td>
</tr>
<tr>
<td>Greek</td>
<td>10</td>
</tr>
<tr>
<td>Anthropology</td>
<td>5</td>
</tr>
<tr>
<td>Zoology</td>
<td>2</td>
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**THIRD YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>8. English</td>
<td>5</td>
</tr>
<tr>
<td>9. German</td>
<td>5</td>
</tr>
<tr>
<td>10. Romance Lang.</td>
<td>9</td>
</tr>
<tr>
<td>11. Oriental Studies</td>
<td>10</td>
</tr>
</tbody>
</table>

**CREDITS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod. Lang.</td>
<td>5</td>
</tr>
<tr>
<td>Complete Library School</td>
<td>5</td>
</tr>
<tr>
<td>Phil. 1, 2 or 3, Introduction</td>
<td>5</td>
</tr>
<tr>
<td>History 125, Turkey and Near East</td>
<td>5</td>
</tr>
<tr>
<td>History of Europe, 1814-1870</td>
<td>5</td>
</tr>
<tr>
<td>History of Europe Since 1870</td>
<td>5</td>
</tr>
<tr>
<td>Pol. Sci. 122, Foreign Affairs</td>
<td>3</td>
</tr>
<tr>
<td>123, Intern. Relations</td>
<td>3</td>
</tr>
<tr>
<td>156, European Gov. &amp; Pol. Insts.</td>
<td>5</td>
</tr>
<tr>
<td>161, 162, 163, Governments</td>
<td>15</td>
</tr>
<tr>
<td>170, 118, 119, 120, Survey Euro.</td>
<td>5</td>
</tr>
<tr>
<td>180, 181, 182, Recent Lit.</td>
<td>8</td>
</tr>
</tbody>
</table>

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

**XIV. PRE-EDUCATION CURRICULUM**

**Admission.**—Pre-education students must fulfill all the lower division requirements of the College of Liberal Arts, (see page 91) and it is urged that those requirements be worked off as soon as possible.

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

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

Breadth of education, however, is still compatible with an early intentional focusing which will give to scholarship a certain weight of close relevancy to the peculiar responsibilities of the teacher. Within the

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1 This requirement may be satisfied by the first course in each of two of these (Econ., Soc., or Pol. Sci.), or the first course in any one of them together with five credits in another course for which the one taken first is a prerequisite.
limits set by the academic organization of the departments and colleges, which in a University must attempt both to make scholars and to contribute to the special ends of professional schools, it is still possible for the prospective teacher to make choice of courses which will enhance his pleasures in his work and his value to his students. Among the courses now open to freshmen and sophomores, the following are suggested as having large potential bearing on the making of a teacher:

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Political Science</strong> 5</td>
<td><strong>History</strong> 6</td>
<td><strong>Psychology</strong> 1</td>
</tr>
<tr>
<td><strong>History</strong> 5</td>
<td><strong>English 65</strong></td>
<td><strong>Zoology 1</strong></td>
</tr>
<tr>
<td><strong>Zoology 1</strong></td>
<td><strong>Geology 1a, 1b</strong></td>
<td><strong>Geology 2</strong></td>
</tr>
<tr>
<td><strong>Sociology 1</strong></td>
<td><strong>English 40</strong></td>
<td><strong>English 40</strong></td>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>History 57</th>
<th>History 58</th>
<th>History 59</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anthropology 61</strong></td>
<td><strong>Education 101</strong></td>
<td><strong>Political Science 55</strong></td>
</tr>
<tr>
<td><strong>Philosophy 2</strong></td>
<td>5 or <strong>Philosophy 3</strong></td>
<td>5</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

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

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

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

Courses of Study

For description of courses see Departments of Instruction section.
COLLEGE OF SCIENCE

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern). President of the University
Thomson, David, B.A. (Toronto) .................................................. Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ........................... Assistant Dean of Faculties

THE FACULTY, 1928-1929

PROFESSORS

Landes, Henry, A.M. (Harvard) ....Professor of Geology; Dean of the College of Science
Benson, Henry Kreitzer, Ph.D. (Columbia) ............................Professor of Industrial Chemistry
Carpenter, Allen Fuller, Ph.D. (Chicago) ...............................Professor of Mathematics
Dehn, William Maurice, Ph.D. (Illinois) ...............................Professor of Organic Chemistry
Frye, Theodore Christian, Ph.D. (Chicago) ............................Professor of Botany
Guthrie, Edwin R., Ph.D. (Pennsylvania) .............................Professor of Psychology
Hall, David Connolly, Sc.M., M.D. (Rush Medical College) ....Professor of Hygiene and
Univcrsity Health Officer

Kimball, Trevor, A.M. (Washington) ......................................Professor of Zoology
Mathews, Colonel Harry T., C.A.C. (U.S. Military Academy) ....Professor of Military
Science and Tactics
Moritz, Robert Edouard, Ph.D., (Nebraska), Ph.n.d. (Strasburg) ...Professor of Mathematics
Olding, James Perdue, Commander, U.S.N. ............................Professor of Naval Science
Osborn, Frederick Arthur, Ph.D. (Michigan) ..........................Professor of Physics
Reitt, Effie Isabel, A.M. (Columbia) ......................................Professor of Home Economics
Rigg, George Burton, Ph.D. (Chicago) .....................................Professor of Botany
Smith, George McPhail, Ph.D. (Freiburg) ..............................Professor of Inorganic Chemistry
Smith, Stevenson, (Pennsylvania) .................................Professor of Psychology
Tartar, Herman Vance, Ph.D. (Chicago) ..................................Professor of Chemistry
Weaver, Charles Edwin, Ph.D. (California) ............................Professor of Geology
Welsh, John, Dr.P.H. (Harvard) ...........................................Professor of Bacteriology
Winger, Roy Martin, Ph.D. (Johns Hopkins) ............................Professor of Mathematics
Worcester, John Locke, M.D. (Medical School University of Alabama) ...Professor of Anatomy

ASSOCIATE PROFESSORS

Anderson, Samuel Herbert, Ph.D. (Illinois) .........................Associate Professor of Physics
Arabian, James George, B.S. (Kansas State College) ..........Associate Professor of Physical Education for Men
Brunkel, Henry Louis, Ph.D. (Cornell) ..............................Associate Professor of Engineering Physics
Denny, Grace Goldena, M.A. (Columbia) ....................Associate Professor of Home Economics
Esper, Erwin A., Ph.D. (Ohio State University) .................Associate Professor of Psychology
Gavett, George Irving, B.S.(C.E) (Michigan) ....................Associate Professor of Mathematics
Goodspeed, George Edward, B.S.(M.F.E) (Massachusetts Institute of Technology) ..........Associate Professor of Geology
Gross, Mary Emma, A.M. (Columbia) .................................Associate Professor of Physical Education for Women
Hubert, John Earl, Ph.D. (Illinois) .................................Associate Professor of Zoology
Hotson, John William, Ph.D. (Harvard) .............................Associate Professor of Botany
McCurdy, W. H., Ph.D. (Princeton) ......................................Associate Professor of Physics
Honer, George T., Ph.D. (Philadelphia) ..............................Associate Professor of Geology
Smith, El Victor, Ph.D. (Northwestern) ..............................Associate Professor of Zoology
Thompson, Thomas Gordon, Ph.D. (Washington) .................Associate Professor of Chemistry

ASSISTANT PROFESSORS

Adair, Hugh D., Captain, Infantry (Grad., Wentworth Military Academy) ...Assistant
Professor of Military Science and Tactics
Ballantine, John Perry, Ph.D. (Chicago) .............................Assistant Professor of Mathematics
Bar, Eric Lloyd, Lieutenant Commander, U.S.N. ..........Assistant Professor of Naval Science
Bliss, Addie Jeanette, A.M. (Columbia) ..............................Assistant Professor of Home Economics
Dressler, Martha, M.S. (Columbia) ......................................Assistant Professor of Home Economics
DeVries, Mary Midd., A.B. (Wisconsin) ..............................Assistant Professor of Physical Education
Foster, Henry M., A.M. (Columbia) ........................Assistant Professor of Physical Education for Men

1Absent on leave.

(104)
## The Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greene, Royal Kemp</td>
<td>Major, C.A.C. (Grad. U.S. Military Academy)</td>
</tr>
<tr>
<td>Hatch, Melville H.</td>
<td>Assistant Professor of Military Science and Tactics</td>
</tr>
<tr>
<td>Hoffstad, Rachel Emille</td>
<td>Assistant Professor of Zoology</td>
</tr>
<tr>
<td>McFarlan, Lee H.</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>McGownd, Matilda Jane</td>
<td>Assistant Professor of Physical Education</td>
</tr>
<tr>
<td>Meredith, Evan K.</td>
<td>Assistant Professor of Military Science and Tactics</td>
</tr>
<tr>
<td>Millier, Robert Cunningham</td>
<td>Assistant Professor of Zoology</td>
</tr>
<tr>
<td>Muhlenberg, Henry C. K.</td>
<td>Major, Air Service (Grad. U.S. Military Academy)</td>
</tr>
<tr>
<td>Mullemelster, Hermance</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Nelkirk, Lewis Irving</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Payne, Blanche A.M.</td>
<td>Assistant Professor of Home Economics</td>
</tr>
<tr>
<td>Powell, Sargent G.</td>
<td>Assistant Professor of Chemistry</td>
</tr>
<tr>
<td>Rice, Paul Hildreth</td>
<td>Lieutenant Commander, U.S.N. (U.S. Naval Academy)</td>
</tr>
<tr>
<td>Zanstra, Herman Ph.D.</td>
<td>Assistant Professor of Astronomy and Mathematics</td>
</tr>
</tbody>
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### LECTURERS

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<thead>
<tr>
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<tbody>
<tr>
<td>Burdon, Minnie Bell</td>
<td>Lecturer on Hygiene</td>
</tr>
<tr>
<td>Magnusson, Gustaf Alfred</td>
<td>Lecturer on Clinic Diagnosis</td>
</tr>
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### INSTRUCTORS

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<tr>
<td>Cramlet, Clyde Myron</td>
<td>Instructor in Mathematics</td>
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<tr>
<td>Gundlach, Ralph Harehson</td>
<td>Instructor in Psychology</td>
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<tr>
<td>Hildebrand, Christian</td>
<td>Instructor in Military Science and Tactics</td>
</tr>
<tr>
<td>Jerbert, Arthur Rudolph</td>
<td>Instructor in Mathematics</td>
</tr>
<tr>
<td>Luce, Dean</td>
<td>Instructor in Military Science and Tactics</td>
</tr>
<tr>
<td>Mentzer, Phoebe E.</td>
<td>Instructor in Zoology</td>
</tr>
<tr>
<td>Sivertz, Victorian Ph.D.</td>
<td>Instructor in Chemistry</td>
</tr>
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### ASSOCIATES

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Bagshaw, Enoch B.S.</td>
<td>Associate in Physical Education</td>
</tr>
<tr>
<td>Edmundson, Clarence B.S.</td>
<td>Associate in Physical Education</td>
</tr>
<tr>
<td>Gerdeaman, Alice E.</td>
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<tr>
<td>Goodsell, Julia B.S.</td>
<td>Associate in Geology</td>
</tr>
<tr>
<td>Graves, Dorsett Missouri</td>
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</tr>
<tr>
<td>Helmich, Leon B.S.</td>
<td>Associate in Physical Education</td>
</tr>
<tr>
<td>Jackson, Kirby B.S.</td>
<td>Associate in Chemistry</td>
</tr>
<tr>
<td>Marick, Louis B.S.</td>
<td>Associate in Physics</td>
</tr>
<tr>
<td>Martin, Marion Marguerite</td>
<td>Associate in Physical Education</td>
</tr>
<tr>
<td>Radford, Ethel Sanderson</td>
<td>Associate in Chemistry</td>
</tr>
<tr>
<td>Soule, Elizabeth S.</td>
<td>Associate in Nursing Education and Public Health</td>
</tr>
<tr>
<td>Seaman, Albert L.</td>
<td>Associate in Geology</td>
</tr>
<tr>
<td>Sutton, Wayne A.B.</td>
<td>Associate in Physical Education</td>
</tr>
</tbody>
</table>
College of Science

GENERAL INFORMATION

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

I. Elective curricula, for students desiring general training in science, leading to the degree of bachelor of science.

II. Required curricula, for students desiring to specialize in one department, or to obtain professional training, leading to the degree of bachelor of science, in one of the following subjects:
   A. Bacteriology
   B. Biology
   C. Chemistry
   D. Geology
   E. Mathematics
   F. Military Science
   G. Naval Science
   H. 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
   D. Pre-Library

IV. Prescribed curricula in vocational subjects:
   A. Home Economics
   B. Nursing Education
   C. Physical Education for Men
   D. Physical Education for Women
   E. Pre-medical

V. One-year course leading to certificate in Public Health Nursing.

VI. Pre-Landscape Gardening curriculum.

LABORATORIES

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

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

APPLICATION FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 52, 59 and 60.
Curricula

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 53.

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

CURRICULA

I. Elective Curricula

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

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

A. Requirements in a Major Subject

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

B. Distribution of Required Work

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

1. Subjects in Secondary Schools:
   (a) English, three years.
   (b) Elementary algebra, one year.
   (c) Plane geometry, one year.
   (d) One foreign language, two years.

2. Subjects Required Either in Secondary School or in the University:
   (e) United States history and civics, one year in high school, or ten credits in the University.
   (f) History in addition to (e), one year or ten credits.
   (g) Mathematics, geology*, or astronomy, one year or ten credits.
   (h) Chemistry, one year or ten credits.

†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.
College of Science

(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, 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.

II. CURRICULA IN THE VARIOUS DEPARTMENTS

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

A. BACTERIOLOGY

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
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<td>Sociology 1</td>
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<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
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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 108 | 6          |
| Mil. Sci. or Phys. Ed. | 1%        | Mil. Sci. or Phys. Ed. | 1%   | Mil. Sci. or Phys. Ed. | 1% |

THIRD YEAR

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

FOURTH YEAR

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

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 adviser. The adviser 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 adviser and the dean.

First Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
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Second Year

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Third Year

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<td>Pol. Sci. 101</td>
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C. Chemistry

First Year

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<th>Spring Quarter</th>
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<td>Chemistry 2 or 22</td>
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<td>Chemistry 23</td>
<td>5</td>
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<td>Mathematics 4</td>
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<td>Mathematics 6</td>
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<td>English 2 or Electives</td>
<td>5</td>
<td>Electives</td>
<td>5</td>
</tr>
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<td>1 1/2</td>
<td>Mil. Sci. or Phys. Ed.</td>
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Second Year

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Third Year

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<th>Electives</th>
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<td>Electives</td>
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<td>Electives</td>
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</tr>
</tbody>
</table>

Group Options

(a) General—
(b) Industrial—
(c) Biological—

Options

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

** Two and one-half years of mathematics required, which may be taken in high school or University.
1 Students expecting to elect the industrial group in junior year must take Chemistry 23 the spring quarter of the sophomore year.
2 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.
3 The history of Chemistry, Chem. 100 and 101, are suggested as electives in either the junior or senior year.
## D. GEOLOGY

### FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem. 1 or 21 .......... 5</td>
<td>Chem. 2 or 22 .......... 5</td>
<td>Chem. 23 ............ 5</td>
</tr>
<tr>
<td>Geol. 1a &amp; 1b .......... 5</td>
<td>Geology 2 .......... 5</td>
<td>English 1 ......... 5</td>
</tr>
<tr>
<td>Math. 4 or 51 ........ 3 or 4</td>
<td>Math. 5 or 52 ....... 5 or 4</td>
<td>Math. 6 or 53 ....... 5 or 4</td>
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<tr>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
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### SECOND YEAR

<table>
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<th>Autumn Quarter Credits</th>
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<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 1 ............. 5</td>
<td>Physics 2 ............ 5</td>
<td>Elective ........... 5</td>
</tr>
<tr>
<td>Geology 21 ............ 5</td>
<td>Gen. Eng. 1 ........ 3</td>
<td>Civil Eng. 54 ....... 5</td>
</tr>
<tr>
<td>French 1 or German 1 .... 5</td>
<td>Gen. Eng. 21 ....... 3</td>
<td>Geology 125 ........ 5</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
<td>French 2 or German 2 .... 5</td>
<td>French 3 or German 3 .... 5</td>
</tr>
<tr>
<td>Bot. or Zool. ......... 5</td>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
<td>Metallurgy 102 ....... 5</td>
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### THIRD YEAR

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<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
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<tbody>
<tr>
<td>Geology 124 ............ 3</td>
<td>Geology 125 ........ 5</td>
<td>Geology 128 ....... 8</td>
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<td>Geology 121 ............ 3</td>
<td>Metallurgy 163 ....... 3</td>
<td>Metallurgy 169 ....... 2</td>
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<td>Geology 112 ............ 5</td>
<td>Thesis ............. 5</td>
<td>Electives ........ 10</td>
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<tr>
<td>Mining 51 ............. 3</td>
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## E. MATHEMATICS

### FIRST YEAR

<table>
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</thead>
<tbody>
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<td>English 1 ............. 5</td>
<td>English 2 or Electives .... 5</td>
<td>History ........... 5</td>
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<tr>
<td>Mathematics 4 ......... 5</td>
<td>Mathematics 5 ......... 5</td>
<td>Mathematics 6 ......... 5</td>
</tr>
<tr>
<td>Physics 1 ............. 5</td>
<td>Physics 2 ............ 5</td>
<td>Modern Foreign Lang .... 5</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
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### SECOND YEAR

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<th>Spring Quarter Credits</th>
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<tr>
<td>History ............... 5</td>
<td>Economics 1 ........ 5</td>
<td>Political Science .... 5</td>
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<td>Mathematics 107 ....... 5</td>
<td>Mathematics 106 ....... 5</td>
<td>Mathematics 108 ....... 5</td>
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<tr>
<td>Modern Foreign Lang ...... 5</td>
<td>Chemistry 1 ......... 5</td>
<td>Chemistry 2 ......... 5</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
<td>Mil. Sci. or Phys. Ed. .... 1½</td>
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### THIRD YEAR

**GROUP I—SECONDARY SCHOOL TRACKS**

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<th>Autumn Quarter Credits</th>
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<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 1 ........ 5</td>
<td>Philosophy or Logic .... 5</td>
<td>Astronomy 1 ....... 5</td>
</tr>
<tr>
<td>Biological Science .... 5</td>
<td>Biological Science .... 5</td>
<td>Mathematics .... 2 or 3</td>
</tr>
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<td>Mathematics .... 2 or 3</td>
<td>Mathematics .... 2 or 3</td>
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<tr>
<td>Electives ........ 3 or 2</td>
<td>Electives ........ 3 or 2</td>
<td>Electives ........ 3 or 2</td>
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</table>

*The History of Chemistry, Chem. 190 and 191 are suggested as electives in either the junior or senior year.*
GROUP II—COLLEGE AND UNIVERSITY TEACHERS

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Psychology</td>
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<td>Philosophy or Logic</td>
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<td>Astronomy</td>
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<td>5</td>
<td>Electives</td>
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GROUP I—SECONDARY SCHOOL TEACHERS

| Education 140 | 3 |
| Education 119 | 3 |
| Electives     | 7 |
| Pol. Sci. 101 | 2 |

GROUP II—COLLEGE AND UNIVERSITY TEACHERS

| Mathematics | 5 |
| Electives   | 10 |

F. FOUR-YEAR CURRICULUM IN MILITARY SCIENCE

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

MILITARY SCIENCE

First Year

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<th>Credits</th>
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<td>Math. 1 (Algebra)</td>
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<tr>
<td>Math. 2 (Solid Geometry)</td>
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<tr>
<td>Math. 4 (Plane Trigonometry)</td>
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<tr>
<td>General Eng. 7 (Eng. Draw.)</td>
<td>3</td>
</tr>
<tr>
<td>General Eng. 21 (Plane Surv.)</td>
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<td>English 1-2</td>
<td>10</td>
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<td>French, German or Spanish 1-2-3</td>
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<table>
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<tr>
<td>Military Science 104-105-106</td>
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<td>Military Science 114-115-116</td>
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<tr>
<td>Military Science 124-125-126</td>
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<tr>
<td>Philosophy 1, 2, 3 or 5</td>
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<tr>
<td>**Soc., Pol. Sci. or Econ.</td>
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Second Year

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<td>Math. 6 (Solid Geometry)</td>
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<td>Math. 8 (Plane Trigonometry)</td>
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<tbody>
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<td>Military Science 174-175-176</td>
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Third Year

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Fourth Year

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*Approved Electives | 21

Summer Quarter—Basic R. O. T. C. Camp

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<th>Sumner Quarter</th>
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</thead>
<tbody>
<tr>
<td>Military Science</td>
<td>104-105-106</td>
</tr>
<tr>
<td>Military Science</td>
<td>114-115-116</td>
</tr>
<tr>
<td>Military Science</td>
<td>124-125-126</td>
</tr>
<tr>
<td>Philosophy 1, 2, 3 or 5</td>
<td>5</td>
</tr>
<tr>
<td>*Approved Electives</td>
<td>21</td>
</tr>
</tbody>
</table>

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. FOUR-YEAR CURRICULUM IN NAVAL SCIENCE

For students who desire to major in Naval Science the following four-year curriculum has been provided. In addition to giving the student a good general education this course will give him the degree of B.S. in Naval Science on graduation and enable him to obtain a commission as Ensign in the United States Naval Reserve.

* All electives will be outside the military department.
College of Science

NAVAL SCIENCE

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naval Science 1</td>
<td>1½</td>
<td>Naval Science 2</td>
<td>1½</td>
<td>Naval Science 3</td>
<td>1½</td>
</tr>
<tr>
<td>Mathematics 51</td>
<td>4</td>
<td>Mathematics 52</td>
<td>4</td>
<td>Mathematics 2</td>
<td>5</td>
</tr>
<tr>
<td>English 1</td>
<td>5</td>
<td>English 2</td>
<td>5</td>
<td>English 40</td>
<td>5</td>
</tr>
<tr>
<td>French, German, Spanish</td>
<td>5</td>
<td>French, German, Spanish</td>
<td>5</td>
<td>French, German, Spanish</td>
<td>5</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Naval Science 51</th>
<th>1½</th>
<th>Naval Science 52</th>
<th>1½</th>
<th>Naval Science 53</th>
<th>1½</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 1</td>
<td>5</td>
<td>Physics 2</td>
<td>5</td>
<td>Physics 3</td>
<td>5</td>
</tr>
<tr>
<td>History 57</td>
<td>3</td>
<td>History 58</td>
<td>3</td>
<td>History 59</td>
<td>3</td>
</tr>
<tr>
<td>French, German, Spanish</td>
<td>3</td>
<td>French, German, Spanish</td>
<td>3</td>
<td>French, German, Spanish</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 101</td>
<td>2</td>
<td>Gen. Engr. 7</td>
<td>3</td>
<td>Mech. Engr. 82</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>Electives</td>
<td>2</td>
<td>Electives</td>
<td>2</td>
</tr>
</tbody>
</table>

Summer Quarter—Basic R.O.T.C. Cruise (Optional).

THIRD YEAR

<table>
<thead>
<tr>
<th>Naval Science 101</th>
<th>3</th>
<th>Naval Science 102</th>
<th>3</th>
<th>Naval Science 103</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phil. 2, 3 or 5</td>
<td>5</td>
<td>Physics 154</td>
<td>3</td>
<td>Elective</td>
<td>10</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
<td>Elective</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FOURTH YEAR

<table>
<thead>
<tr>
<th>Naval Science 151</th>
<th>3</th>
<th>Naval Science 152</th>
<th>3</th>
<th>Naval Science 153</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>9</td>
<td>Electives</td>
<td>6</td>
<td>Mechanical Engr. 179</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Electives</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summer Quarter—Advanced R.O.T.C. Cruise (Required).*

The student will be advised by the Department of Naval Science in regard to electives.

H. PHYSICS

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
<th>Second Year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†Physics</td>
<td>.15</td>
<td>Physics</td>
<td>.15</td>
</tr>
<tr>
<td>Mathematics</td>
<td>.15</td>
<td>Mathematics</td>
<td>.15</td>
</tr>
<tr>
<td>English</td>
<td>.10</td>
<td>Biol. Sci., Geol., or Astronomy</td>
<td>.10</td>
</tr>
<tr>
<td>Psychology</td>
<td>.5</td>
<td>‡ Restricted Elective</td>
<td>.5</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed.</td>
<td>.5</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Credits</th>
<th>Fourth Year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>.5</td>
<td>Physics</td>
<td>.10</td>
</tr>
<tr>
<td>Chemistry</td>
<td>.15</td>
<td>‡ Restricted Elective</td>
<td>.10</td>
</tr>
<tr>
<td><strong>Advisory Electives</strong></td>
<td>.10</td>
<td>Free Electives</td>
<td>.20</td>
</tr>
<tr>
<td>‡Restricted Electives</td>
<td>.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Free Electives</td>
<td>.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

III. REQUIRED CURRICULA IN GROUP MAJORS

A. CURRICULUM FOR PROSPECTIVE SCIENCE TEACHERS

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

* One advanced cruise, preferably at the end of the third year, will be required of all students. Week-end cruises are offered once a month.
† If the student has had high school chemistry he is advised to take physics in his freshman year.
‡ Restricted electives include work in history, economics, language, philosophy, political science, and sociology.
** Advisory electives must be approved by the department.
Upon the completion of this curriculum the five-year normal diploma is granted, provided 20 hours of education are included, which are selected by the School of Education. Students may enter the teachers' courses (160A, 160B, etc.) with a prerequisite of 20 hours in the sciences chosen.

---

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>20</td>
</tr>
<tr>
<td>English</td>
<td>0 to 10</td>
</tr>
<tr>
<td>Electives</td>
<td>15 to 25</td>
</tr>
<tr>
<td>Mill. Sci. or Phys. Ed.</td>
<td>5</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>20</td>
</tr>
<tr>
<td>Education 101</td>
<td>5</td>
</tr>
<tr>
<td>History</td>
<td>10</td>
</tr>
<tr>
<td>Electives</td>
<td>20</td>
</tr>
<tr>
<td>Mill. Sci. or Phys. Ed.</td>
<td>5</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>20</td>
</tr>
<tr>
<td>Education</td>
<td>8</td>
</tr>
<tr>
<td>Philosophy and Psychology</td>
<td>10</td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>20</td>
</tr>
<tr>
<td>Education</td>
<td>20</td>
</tr>
<tr>
<td>Philosophy and Psychology</td>
<td>10</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
</tr>
</tbody>
</table>

---

**REGULATIONS GOVERNING THIS CURRICULUM**

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

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

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

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

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

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

---

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

This is a combination course whereby a student may obtain the degrees of bachelor of science and bachelor of laws in six years. At the end of his third year, after he has earned 135 credits and the required credits in military science or physical education, and completed all required work with a major in some department, he may register in the School of Law for the first year's work in law. He will be granted the bachelor of science degree at the end of the fourth year, or as soon as he completes the required work above specified with 9 additional credits in the College of Science and 36 credits in the School of Law; making a total of 190 credits for graduation. The fifth and sixth years of the combined course are devoted to completing the remainder of the required work for graduation from the School of Law.

---

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

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

**††** See Political Science department for requirement of Pol. Sci. 101.
followed, a student should earn the degree of bachelor of science at the end of the fourth year, and the degree of bachelor of library science at the end of the fifth year. (See Library School section, page 142.)

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

**FIRST YEAR**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3, French or Ger. .15</td>
<td>5</td>
<td>5</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4Fourth quarter of For. Lang. previously taken.</td>
<td>5</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Botany</th>
<th>Chemistry</th>
<th>Physics</th>
<th>History</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

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

IV. PRESCRIBED CURRICULA IN VOCATIONAL SUBJECTS

**A. PRESCRIBED CURRICULA IN HOME ECONOMICS**

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

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

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

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

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

**Group III, Teachers’ Curriculum for High School Teachers of Home Economics,** 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, 7, 116, 8, 25, 43, 107, 108, 111, 112, 113, 143, 144, 145, 148 with their prerequisites.

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

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

Any of these five lines leads 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

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>5</td>
<td>English 2</td>
<td>6</td>
<td>Physiology 7</td>
<td>6</td>
</tr>
<tr>
<td>Zool. 1 or Bot. 1</td>
<td>5</td>
<td>Chemistry 1 or 2</td>
<td>5</td>
<td>Chemistry 2 or 22</td>
<td>5</td>
</tr>
<tr>
<td>Phys. Ed.</td>
<td>2</td>
<td>Zool. 2 or Bot. 2</td>
<td>5</td>
<td>Lang., Lit. or Hist.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phys. Ed.</td>
<td>2</td>
<td>Phys. Ed.</td>
<td>2</td>
</tr>
<tr>
<td>Preferred electives</td>
<td>H.E. 4, 7, 8, 25, 48; Nursing 5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECOND YEAR

| Lang., Lit. or Hist... | 10 | Lang., Lit. or Hist... | 10 | Lang., Lit. or Hist... | 5 |
| Phys. Ed.               | 2  | Phys. Ed.               | 1  | Psychology 1        | 6  |
|                         |    |                           |    | Economics 1         | 6  |
|                        |    | Phys. Ed.                |     | Phys. Ed.           | 1  |
| Preferred electives—H.E. 5; P.S.D. 9; Bact. 101. |

THIRD YEAR

| Philosophy 2          | 5  | Sociology 1              | 5  | Pol. Sci. 101      | 2  |

FOURTH YEAR

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

GROUP II—FOOD AND NUTRITION

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>5</td>
<td>English 2</td>
<td>5</td>
<td>Chemistry 2 or 22</td>
<td>5</td>
</tr>
<tr>
<td>Physiology 58</td>
<td>5</td>
<td>Chemistry 1 or 21</td>
<td>5</td>
<td>Physiology 58</td>
<td>5</td>
</tr>
<tr>
<td>Phys. Ed.</td>
<td>2</td>
<td>Physiology 54</td>
<td>5</td>
<td>Lang., Lit. or Hist.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phys. Ed.</td>
<td>2</td>
<td>Phys. Ed.</td>
<td>2</td>
</tr>
<tr>
<td>Preferred electives—H.E. 4, 7, 8, 25; P.S.D. 9.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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
Bacteriology 101 | 5 | Bacteriology 102 | 5 | Psychology 1 | 5
Chemistry 135 | 5 | Chemistry 136 | 5 | Chemistry 144 | 5

Preferred electives—H.E. 5; Soc. 50, 57; Psych. 118, 121.

THIRD YEAR

Pol. Sci. 101 | 2 | Economics 1 | 5 | Chemistry 104 | 4
Preferred electives—H.E. 107-108, 111, 116; Nursing 5; Physics 89-90.

Preferred electives—H.E. 146, 183, 190, 191 and related sciences.

GROUP III—SMITH-HUGHES TEACHER TRAINING

**FIRST YEAR**

**Autumn Quarter** | **Credits** | **Winter Quarter** | **Credits** | **Spring Quarter** | **Credits**
--- | --- | --- | --- | --- | ---
English 1 | 5 | English 2 | 5 | Lang., Lit., or Hist. | 5
Physiology 6 | 5 | Chemistry 1 or 21 | 5 | Chemistry 2 or 22 | 5

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

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

**SECOND YEAR**

Lang., Lit., or Hist. | 5 | Lang., Lit., or Hist. | 5 | Lang., Lit., or Hist. | 5
Chemistry 135 | 5 | Chemistry 136 | 5 | Psychology 1 | 5
Physical Ed. | 2 | Physical Ed. | 1 | Physical Ed. | 1

Preferred electives—
Home Economics 5 | 5
Bacteriology 101 | 5

**THIRD YEAR**

Education 101 | 5 | Education 140 | 5 | Economics 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

**FOURTH YEAR**

Education 1001 | 3 | Education 100J | 3 | Education 145 | 5
Preferred electives—
Home Economics 145 | 2 | Home Economics 144 | 2 | Home Economics 183 | 3
Architecture 1, 2 | 4

GROUP IV—INSTITUTIONAL MANAGEMENT

To be taken by those who wish to fit themselves for the following vocations:
1. Dietitians.
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 2 or 22 | 5
Physiology 6 | 5 | Chemistry 1 or 21 | 5 | Lang., Lit., or Hist. | 5
Physical Ed. | 2 | Physical Ed. | 2 | Physical Ed. | 2


**SECOND YEAR**

Lang., Lit., or Hist. | 5 | Lang., Lit., or Hist. | 5 | Lang., Lit., or Hist. | 5
Chemistry 135 | 5 | Chemistry 136 | 5 | Psychology 1 | 5
Physical Ed. | 2 | Physical Ed. | 1 | Physical Ed. | 1

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

THIRD YEAR

Pol. Sci. 101 2 Economics 1 5 Sociology 1 5

FOURTH YEAR

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

GROUP V—TEXTILES, CLOTHING AND FINE ARTS

Summary

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>College requirements</td>
<td>Free electives</td>
</tr>
<tr>
<td>65</td>
<td>34</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Physical Education</td>
</tr>
<tr>
<td>31</td>
<td>10</td>
</tr>
<tr>
<td>Home Economics</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>190</td>
</tr>
</tbody>
</table>

A major in business administration may be elected with this curriculum. This is advised for those who wish to enter commercial fields in costume design. For this purpose students should elect the following courses: Business Administration 1, 62, 106, 136, 146, 147, 198. The normal diploma may be secured by electing the subjects required: Ed. 101, 140, 119, 145, 1601.

Suggested Schedule

<table>
<thead>
<tr>
<th>College Requirements</th>
<th>Credits</th>
<th>Fine Arts</th>
<th>Credits</th>
<th>Home Economics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English .............</td>
<td>10</td>
<td>P.S.D. 5, 6</td>
<td>6</td>
<td>H.E. 7, Survey</td>
<td>2</td>
</tr>
<tr>
<td>Lang., Lit., or Hist.</td>
<td>20</td>
<td>P.S.D. 9, 10, 11</td>
<td>9</td>
<td>H.E. 8, Ele. Clothing</td>
<td>3</td>
</tr>
<tr>
<td>Phys. 89-90</td>
<td>10</td>
<td>Arch. 1-2</td>
<td>4</td>
<td>H.E. 127, Non-Textiles</td>
<td>3</td>
</tr>
<tr>
<td>Physiology 7</td>
<td>5</td>
<td>P.S.D. Electives</td>
<td>8</td>
<td>H.E. 101-102</td>
<td>4</td>
</tr>
<tr>
<td>Economics 1</td>
<td>5</td>
<td></td>
<td></td>
<td>H.E. 109, House M'gt.</td>
<td>2</td>
</tr>
<tr>
<td>Sociology 1</td>
<td>5</td>
<td></td>
<td></td>
<td>H.E. 112-113, Clothing</td>
<td>10</td>
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<tr>
<td>Psychology 1</td>
<td>5</td>
<td></td>
<td></td>
<td>H.E. 130-131 Commercial Costume Construction</td>
<td>6</td>
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<tr>
<td>Philosophy 1 or 2</td>
<td>5</td>
<td></td>
<td></td>
<td>H.E. 132 Costume Des.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 135, Millinery</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 143, Home Furn.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 146, Frae. Cottage</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H.H. 156, Adv. Text</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 188, Comm. Elective</td>
<td>1</td>
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<td></td>
<td></td>
<td></td>
<td>H.E. 148, Home Making</td>
<td>4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 149, Textile Products</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 150, Practical Cottage</td>
<td>2</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>H.E. 151, Cottage Elective</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>50</td>
</tr>
</tbody>
</table>

Total | 65 |
Free Electives inc. Pol. | 81 |
Total | 81 |
Phys. Ed. | 10 |

B. FIVE-YEAR CURRICULUM FOR NURSES

Believing that a broader scientific education is desired by young women entering the nursing profession, the University offers a five-year course in nursing education, 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 education and a certificate of nursing.

FIRST YEAR

| Home Economics 9 | 6 English 1 | 5 Chemistry 2 or 22 | 5 |
| Nursing Education 1 | 8 Chemistry 1 or 21 | 8 English 2 | 5 |
| Physics 69 | 5 Physics 30 | 5 Psychology 1 | 5 |

SECOND YEAR

| Home Econ. 105 | 5 Home Econ. 106 | 5 Anatomy 101 | 3 |
| Physiology 53 | 5 Physiology 54 | 5 Physiology 55 | 5 |
| Economics 1 | 5 Sociology 1 | 5 Nursing Ed. 30 | 5 |
| Phys. Ed. | 2 Phys. Ed. | 1 Elective | 2 |
| | | Phys. Ed. | 1 |

THIRD YEAR

<p>| Anatomy 102 | 3 Anatomy 103 | 3 Pol. Sci. 101 | 2 |
| Bacteriology 101 | 5 Bacteriology 102 | 5 Bacteriology 103 | 5 |
| English 49 | 5 Elective | 7 Elective | 8 |
| Electives | 2 | | |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hygiene and Sanitation</td>
<td>2</td>
<td>Modern Social and Health Movements</td>
<td>3</td>
</tr>
<tr>
<td>Materia Medica</td>
<td>4</td>
<td>Obstetrical Nursing</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Nursing Procedure</td>
<td>6</td>
<td>Mental Nursing</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Nursing Procedure</td>
<td>3</td>
<td>Emergency Nursing</td>
<td>2</td>
</tr>
<tr>
<td>Elements of Pathology</td>
<td>2</td>
<td>Diseases of Eye, Ear, Nose, and Throat</td>
<td>2</td>
</tr>
<tr>
<td>Medical Nursing (including diseases of skin)</td>
<td>6</td>
<td>Pediatric Nursing</td>
<td></td>
</tr>
<tr>
<td>Surgical Nursing</td>
<td>8</td>
<td>Nursing Practice</td>
<td>48</td>
</tr>
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</table>

**Credits for Graduate Nurses**

**First Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>5</td>
<td>Psychology 1</td>
<td>5</td>
<td>Elective</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
<td>Phys. Ed.</td>
<td>2</td>
<td>Phys. Ed.</td>
<td>1</td>
</tr>
</tbody>
</table>

**Preferred electives—Sociology 114, 131; English 40; Sociology 115.**

**Second Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiology 53</td>
<td>5</td>
<td>Physiology 54</td>
<td>5</td>
<td>Physiology 55</td>
<td>5</td>
</tr>
<tr>
<td>Home Economics 103</td>
<td>5</td>
<td>Home Economics 106</td>
<td>5</td>
<td>Education 101</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
<td>P.E. 1</td>
<td>1½</td>
<td>P.E. 2</td>
<td>1½</td>
</tr>
</tbody>
</table>

**Preferred electives—Psychology 101, 114, 131; English 40; Sociology 115.**

**Third Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteriology 101</td>
<td>5</td>
<td>Bacteriology 102</td>
<td>5</td>
<td>Bacteriology 103</td>
<td>5</td>
</tr>
<tr>
<td>Nursing 102</td>
<td>5</td>
<td>Elective</td>
<td>5</td>
<td>P.E. 103</td>
<td>5</td>
</tr>
</tbody>
</table>

**Preferred electives—Sociology 165, 166, 172, 171, 173; Nursing 110.**

**C. Physical Education for Men**

**First Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>5</td>
<td>English 2</td>
<td>5</td>
<td>Sociology 1</td>
<td>5</td>
</tr>
<tr>
<td>Zoology 1</td>
<td>5</td>
<td>Zoology 2</td>
<td>5</td>
<td>Chemistry 2</td>
<td>2</td>
</tr>
<tr>
<td>P.E. 40 Intr. to P.E.</td>
<td>2</td>
<td>P.E. 90 or Gen. Ed.</td>
<td>5</td>
<td>P.E. 50 or Gen. Ed.</td>
<td>5</td>
</tr>
<tr>
<td>P.E. 1</td>
<td>1½</td>
<td>P.E. 2</td>
<td>1½</td>
<td>P.E. 3</td>
<td>1½</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiology 53</td>
<td>5</td>
<td>Physiology 54</td>
<td>5</td>
<td>Physiology 55</td>
<td>5</td>
</tr>
<tr>
<td>Bacteriology 103</td>
<td>5</td>
<td>Psychology 1</td>
<td>5</td>
<td>P.E. 110</td>
<td>5</td>
</tr>
<tr>
<td>P.E. 51 or 52</td>
<td>1½</td>
<td>P.E. 52 or 53</td>
<td>1½</td>
<td>P.E. 55 or 56</td>
<td>1½</td>
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<tr>
<td>Electives</td>
<td>5</td>
<td>Electives</td>
<td>5</td>
<td>Electives</td>
<td>8</td>
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</tbody>
</table>

**Suggested elective—P.E. 178**

**Third Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 101</td>
<td>5</td>
<td>Education 119</td>
<td>3</td>
<td>Education 150</td>
<td>3</td>
</tr>
<tr>
<td>P.E. 131</td>
<td>3</td>
<td>P.E. 132</td>
<td>3</td>
<td>P.E. 143</td>
<td>3</td>
</tr>
<tr>
<td>P.E. 141</td>
<td>3</td>
<td>P.E. 142</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Suggested elective—P.E. 171</td>
<td>2</td>
<td>Suggested elective—P.E. 175</td>
<td>2</td>
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</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 140</td>
<td>5</td>
<td>Education 145</td>
<td>2</td>
<td>Education 145</td>
<td>3</td>
</tr>
<tr>
<td>P.E. 145</td>
<td>3</td>
<td>Education 160S</td>
<td>2</td>
<td>P.E. 150</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
<td>Nursing 140</td>
<td>3</td>
<td>Electives</td>
<td>7</td>
</tr>
<tr>
<td>Suggested elective—P.E. 174</td>
<td>2</td>
<td>Suggested elective—P.E. 172</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested elective—P.E. 155</td>
<td>5</td>
<td>Suggested elective—P.E. 176</td>
<td>2</td>
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</table>
### Curricula

#### D. PHYSICAL EDUCATION FOR WOMEN

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>5</td>
<td>Soc. 1</td>
<td>5</td>
<td>English 2</td>
<td>5</td>
</tr>
<tr>
<td>Zool. 1</td>
<td>5</td>
<td>P.E. 104</td>
<td>2</td>
<td>Zool. 17</td>
<td>2</td>
</tr>
<tr>
<td>Zool. 16</td>
<td>2</td>
<td>P.E.</td>
<td>2</td>
<td>P.E.</td>
<td>2</td>
</tr>
<tr>
<td>P.E. 2</td>
<td>2</td>
<td>Electives</td>
<td>6</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td></td>
<td></td>
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</table>

**Summer Quarter**—P.E. 180—2 credits.

#### SECOND YEAR

<table>
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<tr>
<th></th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Physiology 58</td>
<td>5</td>
<td>Physiology 54</td>
<td>5</td>
<td>Physiology 55</td>
<td>5</td>
</tr>
<tr>
<td>Anatomy 101</td>
<td>3</td>
<td>Dramatic Art 6</td>
<td>5</td>
<td>P.E. 113</td>
<td>5</td>
</tr>
<tr>
<td>P.E. 111</td>
<td>8</td>
<td>P.E. 112</td>
<td>3</td>
<td>Psychology 1</td>
<td>5</td>
</tr>
<tr>
<td>P.E.</td>
<td>2</td>
<td>P.E. 174</td>
<td>2</td>
<td>P.E.</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>P.E.</td>
<td>1</td>
<td>Anatomy 112</td>
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</table>

Note.—Major students must elect 6 hours from following courses during junior and senior years: P.E. 167, 169, 170, 171, 172.

#### THIRD YEAR

<table>
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<tr>
<th></th>
<th>Credits</th>
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<th>Credits</th>
<th></th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>P.E. 114</td>
<td>2</td>
<td>P.E. 105</td>
<td>2</td>
<td>P.E. 106</td>
<td>2</td>
</tr>
<tr>
<td>P.E. 122</td>
<td>2</td>
<td>P.E. 101</td>
<td>3</td>
<td>P.E. 102</td>
<td>3</td>
</tr>
<tr>
<td>P.E. 104</td>
<td>2</td>
<td>P.E. 153</td>
<td>2</td>
<td>P.E. 150</td>
<td>2</td>
</tr>
<tr>
<td>P.E. 154</td>
<td>2</td>
<td>P.E. 175</td>
<td>2</td>
<td>Education 110</td>
<td>3</td>
</tr>
<tr>
<td>Education 101</td>
<td>5</td>
<td>Political Science 101</td>
<td>2</td>
<td>Electives</td>
<td>5</td>
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<tr>
<td>Electives</td>
<td>2</td>
<td>Electives</td>
<td>5</td>
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#### FOURTH YEAR

<table>
<thead>
<tr>
<th></th>
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<th>Credits</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Education 160R</td>
<td>2</td>
<td>Education 145</td>
<td>1</td>
<td>Education 145</td>
<td>2</td>
</tr>
<tr>
<td>Education 140</td>
<td>5</td>
<td>P.E. 132</td>
<td>3</td>
<td>P.E. 133</td>
<td>3</td>
</tr>
<tr>
<td>Education 145</td>
<td>2</td>
<td>P.E. 153</td>
<td>2</td>
<td>P.E. 133</td>
<td>3</td>
</tr>
<tr>
<td>P.E. 151</td>
<td>3</td>
<td>Nursing 140</td>
<td>3</td>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The equivalent of Chemistry 1-2 or Physics 89-90 required in either high school or at the University.

A student may also use physical education as a major, following the prescriptions outlined under Group I (curricula with major in one department). The department recommends that any student planning to teach physical education follow the four-year curriculum rather than the curriculum with a major in one department.

#### E. PRE-MEDICAL CURRICULA

##### TWO AND FOUR-YEAR CURRICULA PREPARATORY TO MEDICINE

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

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

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

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1 or 21</td>
<td>5</td>
<td>Chemistry 2 or 22</td>
<td>5</td>
<td>Chemistry 23</td>
<td>5</td>
</tr>
<tr>
<td>Zool. 3 (Pre-medical)</td>
<td>5</td>
<td>Zool. 4 (Pre-medical)</td>
<td>5</td>
<td>Physiology 7</td>
<td>5</td>
</tr>
<tr>
<td>English 1</td>
<td>5</td>
<td>English 2</td>
<td>5</td>
<td>Psychology 1</td>
<td>5</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
</tr>
</tbody>
</table>
SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sci. French or German</td>
<td>5</td>
<td>Chem. 128 (Organic)</td>
<td>5</td>
<td>Chem. 129 (Organic)</td>
<td>5</td>
</tr>
<tr>
<td>Physics 1</td>
<td>5</td>
<td>Physics 2</td>
<td>5</td>
<td>Physics 3</td>
<td>5</td>
</tr>
<tr>
<td>English 73</td>
<td>3</td>
<td>Electives</td>
<td>5</td>
<td>Electives</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
</tr>
</tbody>
</table>

| Third Year |
|----------------|---------|----------------|---------|----------------|---------|
| Anatomy 101 | 6 | Anatomy 102 | 6 | Anatomy 103 | 6 |
| Anatomy 105 | 6 | Anatomy 106 | 6 | Anatomy 107 | 6 |
| *Bacteriology 101 | 5 | *Bacteriology 106 | 5 | *Bacteriology 104 | 5 |

| Fourth Year |
|----------------|---------|----------------|---------|----------------|---------|
| Physiology 151 | 5 | Physiology 152 | 5 | Physiology 153 | 5 |
| *Chemistry 161 | 5 | *Chemistry 102 | 5 | Bacteriology 112 | 5 |
| Bacteriology 106 | 5 | Elective | 6 | Anatomy 104 | 4 |
| Mil. Sci. or Phys. Ed. | 1½ | Mil. Sci. or Phys. Ed. | 1½ |

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:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing Educ. 102</td>
</tr>
<tr>
<td>Nursing Educ. 103</td>
</tr>
<tr>
<td>Sociology 171</td>
</tr>
<tr>
<td>Home Economics 105-106</td>
</tr>
<tr>
<td>English 40</td>
</tr>
</tbody>
</table>

Elective credits may be substituted.

EXTENSION SERVICE CURRICULUM AT FIRLAND SANATORIUM

Which Also Leads to the Certificate in Public Health Nursing.

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing Educ. 102</td>
</tr>
<tr>
<td>Sociology 171</td>
</tr>
<tr>
<td>English 104</td>
</tr>
</tbody>
</table>

SERVICE COURSE FOR NURSES

To meet the needs for certain courses in the basic sciences, the University is offering a one-quarter course to students who have entered the hospital schools of nursing.

Requirements for entrance: 1. Recommendation of the hospital superintendent. 2. High school graduation.

The curriculum:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 7</td>
</tr>
<tr>
<td>Home Economics 10</td>
</tr>
</tbody>
</table>

* Approved electives may be substituted.
† Electives.
VI. PRE-LANDSCAPE GARDENING CURRICULUM

The climate and flora of this region make it peculiarly fitted for the study of landscape gardening. There are likewise increasing demands for work of this nature. It therefore seems possible and feasible to construct from courses already offered in the University a two-year curriculum for those students who wish to specialize in landscaping. This will enable them to finish the course, such as that offered at the University of California, Cornell University, Iowa State College, Washington State College and Oregon State College, in two years.

<table>
<thead>
<tr>
<th>COURSES OF STUDY</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 1</td>
<td>5</td>
</tr>
<tr>
<td>P.S.D. 5</td>
<td>3</td>
</tr>
<tr>
<td>English 1</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 54</td>
<td>3</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. 1%</td>
<td></td>
</tr>
<tr>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td>Autumn Quarter</td>
<td>Winter Quarter</td>
</tr>
<tr>
<td>Botany 1</td>
<td>Botany 2</td>
</tr>
<tr>
<td>P.S.D. 5</td>
<td>P.S.D. 6</td>
</tr>
<tr>
<td>English 1</td>
<td>English 2</td>
</tr>
<tr>
<td>Mathematics 54</td>
<td>Mathematics 55</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. 1%</td>
<td></td>
</tr>
<tr>
<td>Spring Quarter</td>
<td>Credits</td>
</tr>
<tr>
<td>Botany 3</td>
<td>3</td>
</tr>
<tr>
<td>P.S.D. 7</td>
<td>3</td>
</tr>
<tr>
<td>Economics 1</td>
<td>5</td>
</tr>
<tr>
<td>Geology 1a</td>
<td>3</td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td>Arch. 1</td>
<td>2</td>
</tr>
<tr>
<td>Arch. 4</td>
<td>4</td>
</tr>
<tr>
<td>Arch. 7</td>
<td>1</td>
</tr>
<tr>
<td>Arch. 112</td>
<td>2</td>
</tr>
<tr>
<td>B.A. 54</td>
<td>3</td>
</tr>
<tr>
<td>English 40</td>
<td>5</td>
</tr>
<tr>
<td>Geology 1b</td>
<td>2</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. 1%</td>
<td></td>
</tr>
<tr>
<td>Courses of Study</td>
<td></td>
</tr>
</tbody>
</table>

For description of courses see Departments of Instruction section.

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

**ADMINISTRATIVE OFFICERS**

- Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . President of the University
- Thomson, David, B.A. (Toronto) . Dean of Faculties
- Padelford, Frederick Morgan, Ph.D. (Yale) . Assistant Dean of Faculties

### THE FACULTY, 1928-1929

#### PROFESSORS

- Uhl, Willis Lemon, Ph.D. (Chicago) . Professor of Education; Dean of the School of Education
- Bolton, Frederick Elmer, Ph.D. (Clark) . Professor of Education; Emeritus
- Randolph, Edgar Dunnington, Ph.D. (Columbia) . Professor of Education

#### ASSOCIATE PROFESSORS

- Jessup, John, M.A. (Iowa) . Associate Professor of Education
- Williams, Curtis Talmadge, Ph.D. (Clark) . Associate Professor of Education

#### ASSISTANT PROFESSORS

- Bishop, Omen, Ph.D. (Iowa) . Acting Assistant Professor of Education
- Draper, Edgar Marion, Ph.D. (Washington) . Assistant Professor of Education
- Dverak, August, Ph.D. (Minnesota) . Assistant Professor of Education

#### ASSOCIATES

- Corbally, John Edward, M.A. (Washington) . Associate in Education
- Foster, Frank Kale, M.A. (Washington) . Associate in Education

#### COOPERATING FACULTY

- Benson, Henry Kreitzer, Ph.D. (Columbia) . Professor of Chemical Engineering
- Cox, William Edward, A.M. (Texas) . Professor of Business Administration; Dean of the College of Business Administration
- Frelin, Pierre Joseph, Ph.D. (Johns Hopkins) . Professor of Romance Languages
- Frye, Theodore Christian, Ph.D. (Chicago) . Professor of Botany
- Glen, Irving Mackey, A.M. (Oregon). Professor of Music; Dean of the College of Fine Arts
- Griffith, Dudley David, Ph.D. (Chicago) . Professor of English
- Kincaid, Trevor, M.A. (Washington) . Professor of Zoology
- Landes, Henry, A.M. (Harvard) . Professor of Geology; Dean of the College of Science
- Martin, Charles Emanuel, Ph.D. (Columbia) . Professor of Political Science
- McKenzie, Roderick D., Ph.D. (Chicago) . Professor of Sociology
- McKenzie, Vernon, M.A. (Harvard) . Professor of Journalism; Dean of the School of Journalism
- McMahon, Edward, A.M. (Wisconsin) . Professor of American History
- Meany, Edmond Stephen, LL.D. (College of Puget Sound) . Professor of History
- Moritz, Robert Eliosard, Ph.D. (Strassburg) . Professor of Mathematics
- Ober, Caroline Haven . Professor of Spanish
- Osborn, Frederick Arthur, Ph.D. (Michigan) . Professor of Physics
- Raitt, Effie Isabel, A.M. (Columbia) . Professor of Home Economics
- Smith, George McPhail, Ph.D. (Freiburg) . Professor of Inorganic Chemistry
- Weinziel, John, Dr.P.H. (Harvard) . Professor of Bacteriology
- Deny, Grace Goldena, A.M. (Columbia) . Associate Professor of Home Economics
- Eckelmann, Ernest Otto, Ph.D. (Heidelberg) . Associate Professor of Germanic Languages
- Gross, Mary Emma, A.M. (Columbia) . Associate Professor and Director of Physical Education for Women
- Jones, Robert William, A.M. (South Dakota) . Associate Professor of Journalism
- Newenham, Frances Dickey, A.M. (Columbia) . Associate Professor of Music
- Remmer, George T., Jr., Ph.D. (Columbia) . Associate Professor of Geography
- Stone, Edward Noble, A.M. (Olivet College) . Associate Professor of Classical Languages
- Foster, Henry M., M.A. (Columbia) . Assistant Professor and Director of Physical Education for Men
- Lovejoy, Albert, B.L.I. (Emerson College of Oratory) . Acting Assistant Professor of Dramatic Art
- Rhodes, Helen Nelson, B.A. (Washington) . Assistant Professor in Design
- Draper, Oscar Eldridge, M.Acct. . Lecturer on Business Administration
- Neustadt, Frederick William, Ph.D. (Wisconsin) . Lecturer on German
- Sperlin, Otto Redney, Ph.M. (Chicago) . Lecturer on English
- Jerbert, Arthur Rudolph, Ph.D. (Washington) . Instructor in Mathematics
- Hamack, Frank Hartmond, LL.B. (Georgetown) . Associate in Business Administration

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GENERAL STATEMENT

The School of Education bases its work on two years of college or normal school. Only one course in education, 101 or 102, is allowed in the sophomore year. The degrees awarded are bachelor of arts in education or bachelor of science in education, according to the character of the academic work chosen.

The work in the school is strictly professional and seeks to afford special training and technique for the various types of teachers and educational specialists. Emphasis is placed on graduate work. A probationary teaching certificate, the five-year normal diploma, is granted for a minimum amount of professional study, but all wishing to secure the life diploma are required to spend at least one quarter in residence after graduation and complete a total of 35 credits (including the undergraduate work) in education.

Scope and Aims.—The curriculum of the School of Education assumes that teachers should have a broad and liberal education, supplemented by professional training, giving knowledge of the pupils to be taught and the problems to be met, and new meaning to the subjects of instruction, as well as fundamental principles of teaching; and that they should be masters of some special subject which they expect to teach.

The school is especially fitted to provide teachers of the following types: (1) high school teachers, (2) high school principals, (3) superintendents of public schools, (4) grammar school principals, (5) supervisors of primary schools, (6) supervisors and teachers of music, drawing, manual and industrial arts, home economics, physical training and other special subjects, (7) normal school and college instructors in education, (8) experts in educational research, (9) specialists in the education of defectives, (10) playground directors, (11) Y.M.C.A. and Y.W.C.A. workers, (12) juvenile court workers.

General Academic Work.—Because of the variety of work which every teacher is likely to be required to do on beginning to teach, and because of the requirements for state certificates, elementary college courses should be taken in not less than four subjects taught in the high schools.

Specialized Academic Work.—Each teacher should have thoroughly extended preparation in one subject and reasonable preparation in at least two additional subjects. Experience has shown that the following combinations are most frequently demanded: Latin, French; Latin, Greek; English, French; English, history, civics; English, Latin, history; Spanish, French; mathematics, physics, chemistry; botany, zoology, physiology, physiography; home economics alone or in connection with one or two other subjects; manual and industrial arts alone or in connection with one or two other subjects; commercial subjects alone or with other subjects; athletics, music or drawing in combination with other work. One teacher is frequently required to teach all the sciences. Public speaking is desirable as part of the preparation for teaching English.

Professional Work.—The requirements for the academic major and minors assure a proper distribution of the academic subjects. The professional work consists (a) of the courses in the department of education, (b) the teachers' courses in the various academic departments.

Special Teachers' Courses.—Many academic departments have teachers' courses covering the problems of teaching their subjects in high schools. Work in special methods relating to particular subjects is given by instructors dealing most directly with the subject matter. Foundation principles of general methods based on the laws of learning and teaching are developed in the department of education.
Observation and Supervised Teaching.—By an arrangement between the University and the schools of Seattle students in the department of education may observe the regular work in certain schools (at present twelve are used) and do supervised teaching under the direction of the regular teachers of the school and the university professor in charge of that work. Thus students have an opportunity to gain valuable experience under exceptionally favorable conditions.

Industrial Arts.—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.
Admission

Saturday and Evening Classes.—To accommodate teachers of Seattle and vicinity several classes in education are scheduled on Saturday and during the late afternoon and evening.

Bureau of Appointments.—The University maintains an appointment bureau to assist students in obtaining desirable positions. The services are entirely free to students and graduates of the University and to employers.

Honorary Educational Societies.—Chapters of Phi Delta Kappa, men's national honorary educational fraternity, and Pi Lambda Theta, women's national honorary educational sorority, have been established for several years. Each has a large and vigorous membership. A men's education club has recently been organized.

ADMISSION

The admission requirements are completion of 90 hours of college credit earned in the University of Washington or in an accredited institution of equal rank. Disposition of these 90 hours shall be determined by mutual agreement of the faculty of the School of Education and the faculty of the particular college concerned, and shall be administered by the dean of the college in accordance therewith. In addition the usual undergraduate requirements in physical training or military drill must be completed.

Sophomores who have earned 65 hours of credit may enroll in course 101, Introduction to Education, or 102, Elementary Educational Psychology.

Admission of Normal School Graduates to Advanced Standing.—Advanced credit for work taken in approved normal schools by students previously graduated from an accredited four-year secondary school, will be allowed at the rate of 45 hours of lump credit for each full year's work completed in the normal school, the minimum amount accepted as a year's work being 36 weeks of attendance with at least 45 quarter credits, not more than 19 of which shall have been earned in one quarter.

For graduation with the degree of bachelor of arts in education or bachelor of science in education a normal school graduate with such advanced credit must earn in the University a sufficient number of credits to bring the total up to 180 credits plus ten credits of required courses in physical education or military science, and including all specific requirements for the degree not fully covered by previous work. Claims for exemption from specific requirements, based on work in normal school, are passed on by the registrar and the dean of the college concerned.

A minimum of three full quarters in residence is required for any degree granted by the University.

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

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:

- Academic major .................................. 35 credits
- Academic minor .................................. 20 credits
- Education, including 2 hours special teachers' course .................................. 25 credits

The education courses required for the degree of bachelor of arts in education, or bachelor of science in education shall include the following:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101. Intro. to Study of Educ.</td>
<td>5</td>
</tr>
<tr>
<td>110. Secondary Educ.</td>
<td>3</td>
</tr>
<tr>
<td>140. Psychology of Teaching Methods</td>
<td>5</td>
</tr>
<tr>
<td>145. Practice Teaching</td>
<td>5</td>
</tr>
<tr>
<td>150. Educational Measurements</td>
<td>3</td>
</tr>
<tr>
<td>160. Teachers' Course in Special Subj.</td>
<td>2</td>
</tr>
<tr>
<td>Educational Electives</td>
<td>2</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>110. Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>150. Educational Measurements</td>
<td>3</td>
</tr>
<tr>
<td>152. Social Surveys of Education</td>
<td>2</td>
</tr>
</tbody>
</table>

An academic major consists of a minimum of 35 credits in some subject other than education, the number of credits and distribution of which shall be approved by the University faculty.

An academic minor consists of a minimum of 20 credits in some subject other than education, the number of credits and distribution of which shall be approved by the general faculty.

Part of the preparation in the academic major and minor should be completed before entrance to the School of Education.

No courses in education may be taken before the junior year, except that sophomores who have earned 65 quarter hours of credit may enroll in course 101, Introduction to Education, or 102 Elementary Educational Psychology.

Students in other colleges or schools of the University may elect courses in education according to conditions fixed by those colleges and not inconsistent with regulations of the School of Education.

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

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

<table>
<thead>
<tr>
<th>High School Principal</th>
<th>Grade School Principal</th>
<th>Village Superintendent</th>
<th>City Superintendent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the Study of Educ.</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Elementary Educ. Psy</td>
<td>5</td>
<td>Elementary Educ. Psy</td>
<td>5</td>
</tr>
<tr>
<td>Psych. of Teaching Method</td>
<td>5</td>
<td>Psych. of Teaching Method</td>
<td>5</td>
</tr>
<tr>
<td>Teachers' Course in Spec. Subj.</td>
<td>2</td>
<td>Teachers' Course in Spec. Subj.</td>
<td>2</td>
</tr>
<tr>
<td>Practice Teaching Educ. Measure.</td>
<td>3</td>
<td>Practice Teaching Educ. Measure.</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Educ. 2</td>
<td>25</td>
<td>Electives in Educ. 2</td>
<td>25</td>
</tr>
</tbody>
</table>

* Quarter hours.
### ADDITIONAL REQUIREMENTS IN EDUCATION FOR MASTER'S DEGREE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>151. Educational Sociology</td>
<td>3</td>
</tr>
<tr>
<td>152. Social Surveys of School Studies and Activities</td>
<td>2</td>
</tr>
<tr>
<td>154. Junior High School</td>
<td>2</td>
</tr>
<tr>
<td>156. High School Organization</td>
<td>2</td>
</tr>
<tr>
<td>157. Extra-Curricular Activities</td>
<td>2</td>
</tr>
<tr>
<td>159. The High School Principal</td>
<td>2</td>
</tr>
<tr>
<td>161. History of Education</td>
<td>5</td>
</tr>
<tr>
<td>163. History of American Education</td>
<td>5</td>
</tr>
<tr>
<td>164. The History of Secondary Edu.</td>
<td>3</td>
</tr>
<tr>
<td>165. Problem Children</td>
<td>5</td>
</tr>
<tr>
<td>170. Educational Psychology</td>
<td>5</td>
</tr>
<tr>
<td>172. Psychology of Eli. School Sub.</td>
<td>3</td>
</tr>
<tr>
<td>174. Psych. Prob. of Vocational Edu.</td>
<td>3</td>
</tr>
<tr>
<td>176. Educational Guidance</td>
<td>3</td>
</tr>
<tr>
<td>179. The Health Educ. Movement</td>
<td>3</td>
</tr>
<tr>
<td>181. Ed. Prob. of Adolescence</td>
<td>5</td>
</tr>
<tr>
<td>182. El. School Curriculum</td>
<td>5</td>
</tr>
<tr>
<td>191. 192. Educ. Administration</td>
<td>10</td>
</tr>
<tr>
<td>195. School Supervision</td>
<td>5</td>
</tr>
<tr>
<td>196. 197-198. Intell. and its Meas.</td>
<td>0</td>
</tr>
<tr>
<td>201-202-203. Prob. in Mod. Methods</td>
<td>6</td>
</tr>
<tr>
<td>206. Org. and Adm. of Supervised Teaching</td>
<td>3</td>
</tr>
<tr>
<td>206. Educational Statistics</td>
<td>5</td>
</tr>
<tr>
<td>210. Methods of Educ. Research</td>
<td>1</td>
</tr>
<tr>
<td>212. Comparative Education</td>
<td>5</td>
</tr>
<tr>
<td>215. Junior College</td>
<td>3</td>
</tr>
<tr>
<td>222-223. Advanced Educ. Psych.</td>
<td>4</td>
</tr>
<tr>
<td>236. Surv. of Recent Educ. Lit.</td>
<td>3</td>
</tr>
<tr>
<td>261-262. Seminar in Educ. Soc.</td>
<td>10</td>
</tr>
<tr>
<td>271-272-273. Sem. in Educ. Surv.</td>
<td>6</td>
</tr>
<tr>
<td>275-276-277. Sem. in Sec. Educ.</td>
<td>6</td>
</tr>
<tr>
<td>281. Sem. in Character Educ.</td>
<td>2</td>
</tr>
</tbody>
</table>

### REQUIREMENTS IN EDUCATION FOR CANDIDATES FOR SPECIAL POSITIONS AND FOR Degree of Doctor of Philosophy

In addition to the requirements for the bachelor's degree in education elect 60 hours from the following and such other approved graduate courses as may be offered in the summer quarter.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101. Intro. to Study of Educ.</td>
<td>5</td>
</tr>
<tr>
<td>102. Elem. Educational Psychology</td>
<td>5</td>
</tr>
<tr>
<td>110. Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>140. Psych. of Teaching Methods</td>
<td>5</td>
</tr>
<tr>
<td>145. Practice Teaching</td>
<td>5</td>
</tr>
<tr>
<td>150. Teachers' Course in Spec. Sub.</td>
<td>2</td>
</tr>
</tbody>
</table>

### 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101. Intro. to Study of Educ.</td>
<td>5</td>
</tr>
<tr>
<td>102. Elem. Educational Psychology</td>
<td>5</td>
</tr>
<tr>
<td>110. Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>140. Psych. of Teaching Methods</td>
<td>5</td>
</tr>
<tr>
<td>145. Practice Teaching</td>
<td>5</td>
</tr>
<tr>
<td>150. Teachers' Course in Spec. Sub.</td>
<td>2</td>
</tr>
</tbody>
</table>

Graduates of the two-year courses of state normal schools who subsequently graduate from this University and who become candidates for the University five-year normal diploma must earn in this University at least 20 credits in education if registered in the School of Education; if regis-
tered in any other school or college in this University they shall earn 15 credits in education. The credits shall be distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>119. Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>150. Educational Measurements</td>
<td>3</td>
</tr>
<tr>
<td>152. Social Surveys of Education</td>
<td>2</td>
</tr>
<tr>
<td>Electives in Education</td>
<td>5-10</td>
</tr>
</tbody>
</table>

Normal school graduates must qualify for the University normal diploma or life diploma to be eligible to teach in high schools. The diplomas from the normal schools qualify the holders for elementary schools only.

All graduates from the two-year course of state normal schools who receive the life diploma from this University shall earn here a minimum of 30 credits in education.

Persons who have received the master's or doctor's degrees from this University are eligible to the University five-year normal diploma provided they have fulfilled the specific normal diploma requirements.

Normal diplomas or life diplomas shall not be granted to aliens who have not completed their naturalization.

Normal diplomas or life diplomas shall be granted only to persons who have received degrees from the University of Washington.

TEACHING MAJORS AND MINORS FOR NORMAL AND LIFE DIPLOMAS

To be eligible for a normal diploma or a life diploma a candidate shall present (a) as a teaching major a subject now included in the curriculum of at least two of the larger public high schools of the state, and, (b) as a teaching minor either (1) a second teaching subject included in the curriculum of at least two of the larger public high schools of the state, or, (2) a minor definitely reinforcing the major. In unusual cases exception to this rule may be made by the faculty of the School of Education.

The following list of subjects only shall be considered acceptable as majors and minors in the School of Education and for the normal and life diplomas:

- Bacteriology
- Botany
- Chemistry
- Civics
- Commercial Teaching
- Dramatic Art
- Economics
- English
- French
- Geography
- Geology
- German
- History
- Home Economics
- Journalism
- Latin
- Mathematics
- Physical Education
- Physics
- Political Science
- Public School Art
- Public School Music
- Sociology
- Spanish
- Zoology

Instead of fulfilling the academic major and minor requirements respectively in single subjects, science students may meet the group requirements already established in the College of Science.

Major students in one field of music may also minor in another field of music.

LIFE DIPLOMAS

The University life diploma is granted to candidates who possess the five-year normal diploma and who comply with the following requirements:

1. Complete at least one quarter of residence study subsequent to receiving the five-year normal diploma.

2. Earn during the undergraduate and graduate work a minimum total of 35 quarter hours in education, which may include a maximum of five hours in teachers' courses in special subjects.

3. Earn during the graduate quarter a minimum of 5 additional quarter hours in an academic subject which will normally be the academic major or minor.
4. Furnish satisfactory evidence of having taught successfully for at least twenty-four months.

5. The candidate's entire record as to scholarship, teaching experience, and moral and personal qualities must appear upon review by the department of education to be satisfactory.

6. 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.

7. 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.

8. The service requirement of 24 months may not be satisfied by college or university service.

9. If the time which elapses between the receiving of the baccalaureate degree and the application for the life diploma exceeds six years two full quarters of residence work of at least 12 hours each shall be required for the life diploma.

10. The education courses shall be specified by the dean of the School of Education with the view to rounding out the student's professional equipment.

11. The academic courses shall be specified by the academic departments concerned.

12. Candidates who present a minimum of 35 quarter hours of education in their baccalaureate training shall include from two to six quarter hours in education courses numbered 200 or over for the life diploma.

New Standards of Scholarship

Effective Beginning Autumn Quarter, 1928

The following standards of scholarship shall be required of candidates for the five year normal diploma and the life diploma:

(a) C average in all university courses.

(b) C average in education courses, with C or better in Education 145 (practice teaching).

(c) C average in the minor teaching subject with no grade below C in required courses.

(d) In the major teaching subject there shall be no grades less than C in required courses and with such general average in individual departments as shall be approved by the general faculty.

Education Requirements in Other States

Students who plan to teach in other states or in Washington schools that are on the accredited list of the Northwest Association of Secondary and Higher Schools should find out the requirements in education and arrange to meet them before making contracts to teach. Many states require more hours in education than Washington. The following are the requirements in several states: Arizona, 27 hours; California, 23 to 40 hours, also a year of graduate work; Colorado, 31 hours; Idaho, 15 hours; Illinois, 18 hours; Indiana, 28½ hours; Iowa, 21 hours; Kansas, 27 hours; Minnesota, 23 hours; Missouri, 27 hours; Montana, 17 hours; Nebraska, 18 hours; Nevada, 24 hours; New Mexico, 23 hours; North Dakota, 24 hours; Ohio, 36 hours; Oklahoma, 36 hours; Oregon, 22½ hours; Pennsylvania, 27 hours; South Dakota, 23 hours; Texas, 36 hours; Utah, 27 hours; Wisconsin, 22½ hours; Wyoming, 18 to 30 hours, depending upon the kind of certificate.

The North Central Association of Secondary Schools and Colleges requires 22½ hours of education to teach in any of the high schools accredited by that Association. That includes several hundred high schools in the
states of Illinois, Wisconsin, Michigan, Iowa, Missouri, Nebraska, Ohio, Indiana, North Dakota, South Dakota, Montana and Wyoming.

**Education Requirements in Certain Schools in Washington**

The Northwest Association of Secondary and Higher Schools has adopted the same requirement. This association includes the states of Washington, Oregon, Idaho, Montana and Utah. There are accredited by the Northwest Association about twenty-five of the better schools in Idaho, more than thirty-five in Oregon, and about fifty in Washington and about ten in Utah. It is thus seen that students who take only the minimum of 20 hours in education are not eligible to teach in about fifty of our Washington high schools and nearly a hundred in immediately adjoining states. The schools in Washington include the high schools in Aberdeen, Arlington, Auburn, Bellingham, Buckley, Chehalis, Cheney, Clarkston, Cle Elum, Colfax, Davenport, Eatonville, Edmonds, Ellensburg, Everett, Ferndale, Hoquiam, Kelso, Kennewick, Kent, Longview, Monroe, Montesano, Mt. Vernon, Olympia, Pasco, Pomeroy, Prosser, Pullman, Raymond, Rosalia, Seattle, Sedro-Woolley, Snohomish, Spokane, Sprague, Sunnyside, Tacoma, Vancouver, Walla Walla, Waterville, Yakima.

**Requirements Made for Academic Majors and Minors by the Respective Departments**

### Bacteriology

**Major Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101. General Bacteriology</td>
<td>5</td>
</tr>
<tr>
<td>102. Sanitary Bacteriology</td>
<td>5</td>
</tr>
<tr>
<td>103. Public Health Bacteriology</td>
<td></td>
</tr>
<tr>
<td>104. Serology</td>
<td>5</td>
</tr>
<tr>
<td>105. Infectious Diseases</td>
<td></td>
</tr>
<tr>
<td>106. Clinical Diagnosis</td>
<td>5</td>
</tr>
<tr>
<td>Bacteriology Electives</td>
<td>5</td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
</tr>
</tbody>
</table>

**Minor Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101. General Bacteriology</td>
<td>5</td>
</tr>
<tr>
<td>102. Sanitary Bacteriology</td>
<td>5</td>
</tr>
<tr>
<td>Bacteriology Electives</td>
<td>5</td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
</tr>
</tbody>
</table>

### Botany

**Major Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Elementary Botany</td>
<td>5</td>
</tr>
<tr>
<td>2. Elementary Botany</td>
<td>5</td>
</tr>
<tr>
<td>105,106,107. Morph. and Evol.</td>
<td>15</td>
</tr>
<tr>
<td>140,141,142. General Fungi</td>
<td></td>
</tr>
<tr>
<td>143,144,145. Plant Physiology</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
</tr>
</tbody>
</table>

**Minor Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Elementary Botany</td>
<td>5</td>
</tr>
<tr>
<td>2. Elementary Botany</td>
<td>5</td>
</tr>
<tr>
<td>140. Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>141. Organic Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
</tr>
</tbody>
</table>

### Chemistry

**Major Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 2. Gen. Inorganic Chem.</td>
<td>10</td>
</tr>
<tr>
<td>23. Elem. Qualitative Anal.</td>
<td>5</td>
</tr>
<tr>
<td>101. Adv. Qualitative Anal.</td>
<td>5</td>
</tr>
<tr>
<td>111. Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>181-182. Organic Chemistry</td>
<td>10</td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
</tr>
</tbody>
</table>

**Minor Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 2. Gen. Inorganic Chem.</td>
<td>10</td>
</tr>
<tr>
<td>22. Elem. Qualitative Anal.</td>
<td>5</td>
</tr>
<tr>
<td>111. Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>181. Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>182. Organic Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
</tr>
</tbody>
</table>

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 of C or above must be obtained in all required chemistry courses; for a major one-third of the grades in upper division courses must be B or above.

### Civics

**Major Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Comparative Government</td>
<td>5</td>
</tr>
<tr>
<td>1. General Economics</td>
<td>5</td>
</tr>
<tr>
<td>1. Introductory Sociology</td>
<td>5</td>
</tr>
<tr>
<td>Elective in Political Science</td>
<td>15</td>
</tr>
<tr>
<td>Elective in Econ. or Sociology</td>
<td>5</td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
</tr>
</tbody>
</table>

**Minor Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Comparative Government</td>
<td>5</td>
</tr>
<tr>
<td>1. General Economics</td>
<td>5</td>
</tr>
<tr>
<td>1. Introductory Sociology</td>
<td></td>
</tr>
<tr>
<td>Elective in Political Science</td>
<td>10</td>
</tr>
</tbody>
</table>

**Minimum total**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
</tr>
</tbody>
</table>
Requirements

COMMERCIAL TEACHING

Following are the specific requirements for the academic major and minor in the School of Education and for major and minor recommendations for the normal diploma in commercial teaching. Both major and minor requirements are based upon the general pre-business curriculum of the first two years of the College of Business Administration.

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-business (First two years)</td>
<td>90</td>
</tr>
<tr>
<td>B.A. 61-62. Secretarial Training</td>
<td>10</td>
</tr>
<tr>
<td>63. Office Training and Practice</td>
<td>3</td>
</tr>
<tr>
<td>102. Office Management</td>
<td>5</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>105. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>115. Business Correspondence</td>
<td>5</td>
</tr>
<tr>
<td>Education</td>
<td>25</td>
</tr>
<tr>
<td>Approved Minor (minimum)</td>
<td>20</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

Students entering the School of Education from normal schools or other colleges than business administration shall be required to take:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 15,16. Typewriting</td>
<td>0</td>
</tr>
<tr>
<td>18,18. Shorthand</td>
<td>0</td>
</tr>
<tr>
<td>12. General Economics</td>
<td>10</td>
</tr>
<tr>
<td>Minimum total</td>
<td>86</td>
</tr>
</tbody>
</table>

For a major the student having advanced credit from other institutions must take at least one-half of the required 36 hours at the University of Washington.

For a minor the student having advanced credit from other institutions must take at least one-half of the required 20 hours at the University of Washington.

ECONOMICS

Students in the School of Education choosing economics either as their major or minor should consult with the executive officer of the department of economics or the professor in charge of advanced economics with regard to a proper selection of courses. An academic major in economics must include B.A. 1, 2, General Economics (10 credits), B.A. 160, Advanced Economics (5 credits), and at least 35 additional credits chosen from the following list; an academic minor in economics must include B.A. 1, 2, 160, and 5 additional credits selected from the following list:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 60. Labor in Industry</td>
<td>5</td>
</tr>
<tr>
<td>61. Soc. and Econ. Stand. of Living</td>
<td>3</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>104. Econ. of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>106. Econ. of Marketing and Adver.</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>124. Public Finance</td>
<td>5</td>
</tr>
<tr>
<td>129. Taxation</td>
<td>5</td>
</tr>
<tr>
<td>131. Econ. of Public Utilities</td>
<td>5</td>
</tr>
<tr>
<td>132. Principles of Investment</td>
<td>5</td>
</tr>
<tr>
<td>123. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>Minimum total for academic major—50 credits.</td>
<td></td>
</tr>
<tr>
<td>Minimum total for academic minor—20 credits.</td>
<td></td>
</tr>
</tbody>
</table>
1. Note that the above courses are recommended. Substitutions in this list are allowed, however, if approved in writing by the department of English. English 1 and 2 cannot be offered for either a major or a minor. Among the recognized substitutions in these lists are English 67, 68, 69 for 163; 70, 71, 72 for 170, 171; 83 for 174; 84 for 175; and 81 or 136 for 137.

2. Senior Examination: As preparation for this examination English 191, 192, 193, major conference, is usually necessary.

3. All students taking an academic major in English will be given an examination in Composition on entrance into Education 160E. Those who fail in the examination will be required to take Educ. 160C before entering Education 160E, Teachers' Course in English. For a normal diploma, the student must pass Educ. 160E or Educ. 160EC and 160EL.

4. For either the major or the minor, it is required that a student make a grade of B in three-fourths of his upper division courses.

---

**GEOGRAPHY**

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Prin. of Economic Geog.</td>
<td>5</td>
<td>1. Prin. of Economic Geog.</td>
<td>5</td>
</tr>
<tr>
<td>1a, 1b. General Geology</td>
<td>5</td>
<td>100. Econ. Geog. of N. America</td>
<td>5</td>
</tr>
<tr>
<td>100. Econ. Geog. of N. America</td>
<td>5</td>
<td>103. Pol. and Econ. Geog. of Asia</td>
<td>5</td>
</tr>
<tr>
<td>101. Indu. and Pol. Geog. of Europe</td>
<td>5</td>
<td>Minimum total</td>
<td>20</td>
</tr>
<tr>
<td>103. Pol. and Econ. Geog. of Asia</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>112. Physiog. of United States</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum total</td>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**GEOLOGY**

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a, 1b. General Geology</td>
<td>5</td>
<td>1a, 1b. General Geology</td>
<td>5</td>
</tr>
<tr>
<td>2. General Geology</td>
<td>5</td>
<td>2. General Geology</td>
<td>5</td>
</tr>
<tr>
<td>120. Petrology</td>
<td>8</td>
<td>Geography Elective</td>
<td>5</td>
</tr>
<tr>
<td>123. Optical Mineralogy</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>124. Petrography</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>126. Economic Geology</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>181. General Paleontology</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geography Elective</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum total</td>
<td>38</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**GERMAN**

For the academic major or minor, students should have had at least two years of high school German. Its equivalent, if taken in college, is German 1, 2, 3. In addition thereto they are advised to take their major subject during their entire four-year college course. The minimum requirements are as follows:
## Requirements

### Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work, about</td>
<td>10</td>
<td>108. Recent Writers</td>
<td>4</td>
</tr>
<tr>
<td>110. Recent Writers</td>
<td>119a. b. German Prose Reading</td>
<td>110. Advanced Composition and Phonetics</td>
<td>5</td>
</tr>
<tr>
<td>119a. b. German Prose Reading</td>
<td>121. Phonetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>121. Phonetics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>121. Second Year German, about</td>
<td>10</td>
<td>108. Recent Writers</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total: 35

Grades of C or above must be obtained in all required German courses; for a major one-third of the grades in upper division courses must be B or above.

All students who wish a major or a minor recommendation in German must present Education 160G, the teachers' course.

### Academic Major

Minimum 43 or 44 credits, including course 1-2, of which 43 or 44 credits fifty per cent must be of upper division grade. Electives on advice of the head of the department.

### Academic Minor

Minimum 20 credits, including 1-2. Electives on advice of the head of the department.

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, civil government, economics and sociology taught in the high schools of the state and have specialized knowledge in their chosen fields. Courses in history, government, economics, and sociology should be selected with this aim in view. The courses covering the fields of high school history may be chosen from the following:

#### Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 and 2. Medieval and Modern United States</td>
<td>10</td>
</tr>
<tr>
<td>or 148-144-145. United States</td>
<td>9</td>
</tr>
<tr>
<td>or 71-72-73. Modern History</td>
<td>9</td>
</tr>
<tr>
<td>or 114. Renaissance</td>
<td>5</td>
</tr>
<tr>
<td>or 115. Reformation</td>
<td></td>
</tr>
<tr>
<td>or 129. French Revolution</td>
<td></td>
</tr>
<tr>
<td>or 130. Europe, 1814-1870</td>
<td>5</td>
</tr>
<tr>
<td>or 131. Europe Since 1870</td>
<td></td>
</tr>
<tr>
<td>or 149. National Development</td>
<td></td>
</tr>
<tr>
<td>or 162-164-165. Northwest Hist.</td>
<td>5 or 6</td>
</tr>
</tbody>
</table>

Minimum total: 43 or 44

#### Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>148,144,145. Advanced U.S.</td>
<td>9</td>
</tr>
<tr>
<td>or 71-72-73. Ancient History</td>
<td>9</td>
</tr>
<tr>
<td>or 131. Europe Since 1870</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Minimum total: 20

### MAJOR IN ALL FIELDS IN HOME ECONOMICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>5. Food Selection and Preparation</td>
<td>5</td>
</tr>
<tr>
<td>6. H.E. Survey</td>
<td>2</td>
</tr>
<tr>
<td>8. Clothing</td>
<td>3</td>
</tr>
<tr>
<td>9. Textiles</td>
<td>5</td>
</tr>
<tr>
<td>49. Home Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>107-108. Dietetics</td>
<td>10</td>
</tr>
<tr>
<td>111. Child Care</td>
<td>3</td>
</tr>
<tr>
<td>112-113. Cont. Des. and Const.</td>
<td>10</td>
</tr>
<tr>
<td>115. Food Selection and Prep.</td>
<td>5</td>
</tr>
<tr>
<td>149. Home Furnishing</td>
<td>3</td>
</tr>
<tr>
<td>144-145. Household Management</td>
<td>4</td>
</tr>
<tr>
<td>145. Home Management House</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum total: 58

Prerequisites: Painting, Sculpture and Design 9; Chemistry 1 and 2; Chemistry 135-136; Physiology 7.
School of Education

Related courses that should be included: Physics 89-90; Architecture 1-2; Bacteriology 101; Nursing 5.

MAJOR AND MINOR IN TEXTILES AND CLOTHING

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>25. Textiles</td>
<td>5</td>
<td>25. Textiles</td>
<td>5</td>
</tr>
<tr>
<td>133. Clothing, Costume Design</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>135. Millinery</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>143. Home Furnishing</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimum total</td>
<td>37</td>
</tr>
</tbody>
</table>

Prerequisites for either major or minor:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.S.D. 9. Art Structure</td>
<td>3</td>
</tr>
<tr>
<td>169-170. Costume Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Students should have had at least one year of high school clothing.

JOURNALISM

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>51. News Writing</td>
<td>5</td>
<td>51. News Writing</td>
<td>5</td>
</tr>
<tr>
<td>101. Reporting</td>
<td>5</td>
<td>101. Reporting</td>
<td>5</td>
</tr>
<tr>
<td>120. Copy Reading</td>
<td>5</td>
<td>120. Copy Reading</td>
<td>5</td>
</tr>
<tr>
<td>150. Editorial Writing</td>
<td>5</td>
<td>150. Editorial Writing</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimum total</td>
<td>20</td>
</tr>
</tbody>
</table>

Elect 15 credits from any of the following:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>115. Elements of Publishing</td>
<td>3</td>
</tr>
<tr>
<td>120. Fundamentals of Advertising</td>
<td>5</td>
</tr>
<tr>
<td>131. Display Advertising</td>
<td>5</td>
</tr>
<tr>
<td>138. History of Journalism</td>
<td>5</td>
</tr>
<tr>
<td>135. Publicity</td>
<td>2</td>
</tr>
<tr>
<td>170-171-172. Features</td>
<td>6</td>
</tr>
<tr>
<td>Educ. 100K. News. for Teachers</td>
<td>2</td>
</tr>
<tr>
<td>250. Research</td>
<td>3-5</td>
</tr>
<tr>
<td></td>
<td>Minimum total</td>
</tr>
</tbody>
</table>

LATIN

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2. Elementary Greek</td>
<td>10</td>
<td>Twenty credits selected from the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Twenty-five credits selected from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. Cicero: De Senectute; Latin Literature (MacKall)</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. Catullus, Latin Lit. (MacKall)</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23. Vergil: Georgics and Bucolics</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24. Sallust: Catiline and Jurgurtha; Latin Lit. (MacKall)</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25. Ovid</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100. Livy</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>101. Horace</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>102. Tacitus</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>103. Plautus and Terence</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>104. Syntax and Prose Comp</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>107. The Age of Cicero</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>109. Pliny's Letters: Tacitus</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>113. Roman Home Life and Religion</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Senior Examination</td>
<td></td>
<td>Minimum total</td>
<td>35</td>
</tr>
</tbody>
</table>

Minimum total | 20 |
The prerequisite for any work toward either a major or a minor in Latin is three and one-half years of high school Latin or its equivalent. Courses 1-2, 3, 4, 5, 6 do not count toward a major or a minor.

MATHEMATICS

**Major Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Plane Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>5. College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>6. Analytical Geometry</td>
<td>5</td>
</tr>
<tr>
<td>107, 108, 109. Diff. and Integral Calc.</td>
<td>15</td>
</tr>
<tr>
<td>Electives in Mathematics</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum total: 36

**Minor Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Plane Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>5. College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>Electives in Mathematics</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum total: 20

The above schedule is based upon the assumption that the student has had one and one-half years of algebra, and one year of plane geometry, or one year of plane and one-half year of solid geometry before entering the University. If a student has not had the third one-half year of algebra in high school, mathematics 1 should be elected during the freshman year in addition to above schedule. If the student has not had solid geometry he should either take Math. 2 in addition to the above schedule or among his electives.

Grades of C or higher must be earned in mathematics classes by all students who select mathematics as their academic major or minor subject.

MUSIC

Prerequisite: Four years of piano study for either major or minor.

**Major Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Music History</td>
<td>5</td>
</tr>
<tr>
<td>13. Music Appreciation</td>
<td>5</td>
</tr>
<tr>
<td>16. Ear Training and Melody Writ.</td>
<td>5</td>
</tr>
<tr>
<td>51. Elementary Harmony</td>
<td>5</td>
</tr>
<tr>
<td>53. Intermediate Harmony</td>
<td>5</td>
</tr>
<tr>
<td>56. School Music</td>
<td>5</td>
</tr>
<tr>
<td>101. Advanced Harmony</td>
<td>5</td>
</tr>
<tr>
<td>113, 114. Music Education</td>
<td>4</td>
</tr>
<tr>
<td>115. School Music</td>
<td>5</td>
</tr>
<tr>
<td>116. Advanced Harmony</td>
<td>3</td>
</tr>
<tr>
<td>141. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>142. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>143. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>144. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>145. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>146. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>147. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>148. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>149. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>150. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>151. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>152. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>153. Physical Education Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total: 45

**Minor Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Theoretical and Applied)</td>
<td></td>
</tr>
<tr>
<td>109. Counterpoint</td>
<td>5</td>
</tr>
<tr>
<td>117. Elementary Composition</td>
<td>5</td>
</tr>
<tr>
<td>18, 19, 20. Applied Music</td>
<td>9</td>
</tr>
<tr>
<td>119, 119, 120. Applied Music</td>
<td></td>
</tr>
</tbody>
</table>

Minimum total: 24

The following courses may be selected as a minor in music by students in Liberal Arts or Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>13. Music Appreciation</td>
<td>5</td>
</tr>
<tr>
<td>13. Ear Training and Melody Writ.</td>
<td>5</td>
</tr>
<tr>
<td>51. Elementary Harmony</td>
<td>5</td>
</tr>
<tr>
<td>53. Intermediate Harmony</td>
<td>5</td>
</tr>
<tr>
<td>56. School Music</td>
<td>5</td>
</tr>
<tr>
<td>113, 114. Music Education</td>
<td>4</td>
</tr>
<tr>
<td>115. School Music</td>
<td>5</td>
</tr>
<tr>
<td>118, 119. Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>141. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>142. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>143. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>144. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>145. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>146. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>147. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>148. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>149. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>150. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>151. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>152. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>153. Physical Education Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total: 29 or 31

PHYSICAL EDUCATION FOR MEN

**Major Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>80. Introd. to Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>90. Personal and General Hygiene</td>
<td>2</td>
</tr>
<tr>
<td>119. Athletic Tr. and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>131. Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>132. Individual Gymnastics</td>
<td>3</td>
</tr>
<tr>
<td>133. Individual Gymnastics</td>
<td>3</td>
</tr>
<tr>
<td>141. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>142. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>143. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>144. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>145. Principles of Physical Educ.</td>
<td>3</td>
</tr>
<tr>
<td>159. Phys. Educ. and Administration</td>
<td>3</td>
</tr>
<tr>
<td>153. Meth. in. Health Education</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total: 35

**Minor Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>80. Introd. to Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>90. Personal and General Hygiene</td>
<td>2</td>
</tr>
<tr>
<td>119. Athletic Tr. and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>141. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>142. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>143. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>144. Physical Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>152. Physical Education Electives</td>
<td>3</td>
</tr>
<tr>
<td>Two courses of which must be of the Ath. Coaching Methods</td>
<td></td>
</tr>
</tbody>
</table>

Minimum total: 20

The above schedule is based upon the assumption that the student has had one and one-half years of algebra, and one year of plane geometry, or one year of plane and one-half year of solid geometry before entering the University. If a student has not had the third one-half year of algebra in high school, mathematics 1 should be elected during the freshman year in addition to above schedule. If the student has not had solid geometry he should either take Math. 2 in addition to the above schedule or among his electives.

Grades of C or higher must be earned in mathematics classes by all students who select mathematics as their academic major or minor subject.
PHYSICAL EDUCATION FOR WOMEN

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-102. Survey of Gymnastics</td>
<td>6</td>
<td>111. Rhythms and Dram. Games</td>
<td>8</td>
</tr>
<tr>
<td>103-104. Clog; Character Dancing</td>
<td>4</td>
<td>112. Elem. Athletic Games</td>
<td>3</td>
</tr>
<tr>
<td>105-106. Meth. of Folk Dancing</td>
<td>4</td>
<td>113. Org. and Adm. of Playgrounds</td>
<td>3</td>
</tr>
<tr>
<td>111. Rhythms and Dram. Games</td>
<td>8</td>
<td>154-155-156. Natural Dancing</td>
<td>6</td>
</tr>
<tr>
<td>113. Org. and Adm. of Playgrounds</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>122. Kinesiology</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>151-152. Corrective Gymnastics</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>154-155-156. Natural Dancing</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>174-175. Teachers' Course In Swim'g.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>180. Campcraft</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Elect six credits from the following:

167. Meth. in Teaching Hockey | 8 |
169. Meth. in Teaching Tennis and Archery | 8 |
170-171-172. Meth. in Teaching Basketball and Baseball | 6 |

Required Supplementary Sciences:

110,111,112. Special Dem. | 3 |

Anatomy and physiology may be counted as an academic minor.

Required supplementary courses: 15 credits to be selected from sociology, dramatic art and zoology.

Required courses in education, see page 127.

Education 145, Practice Teaching, additional in all cases except by exemption by the dean of the School of Education and head of the department of physical education.

Elect six credits from the following:

167. Meth. in Teaching Hockey | 8 |
169. Meth. in Teaching Tennis and Archery | 8 |
170-171-172. Meth. in Teaching Basketball and Baseball | 6 |

Required Supplementary Sciences:

110,111,112. Special Dem. | 3 |

Anatomy and physiology may be counted as an academic minor.

Required supplementary courses: 15 credits to be selected from sociology, dramatic art and zoology.

Required courses in education, see page 127.

Education 145, Practice Teaching, additional in all cases except by exemption by the dean of the School of Education and head of the department of physical education.

PHYSICS

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3. General Physics</td>
<td>15</td>
<td>1-3. General Physics</td>
<td>15</td>
</tr>
<tr>
<td>4-5. General Physics</td>
<td>15</td>
<td>4-5. General Physics</td>
<td>15</td>
</tr>
<tr>
<td>101. Intro. to Mod. Theories</td>
<td>5</td>
<td>Physics Electives*</td>
<td>5</td>
</tr>
<tr>
<td>102-103. Physics Electives (restricted)</td>
<td>15</td>
<td>Minimum total</td>
<td>20</td>
</tr>
<tr>
<td><strong>Minimum total</strong></td>
<td><strong>35</strong></td>
<td><strong>Minimum total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

*Courses numbered below 200.

A teaching major or minor in physics should be supported by at least a year of college mathematics.

To be recommended to teach physics, a minimum of 25 hours, with an average grade better than C is required.

For recommendation for normal diploma with physics as a major or a minor, the requirement is the same as the above with an average grade better than C.

POLITICAL SCIENCE

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>152. Municipal Government</td>
<td>5</td>
<td>Electives in Political Science</td>
<td>13</td>
</tr>
<tr>
<td>Electives</td>
<td>18</td>
<td><strong>Minimum total</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

**Minimum total** | **35** | **Minimum total** | **20**
Requirements

PUBLIC SCHOOL ART

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6.7. Drawing</td>
<td>3</td>
<td>No minor offered.</td>
</tr>
<tr>
<td>9,10,11. Art Structure</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>53,54,55. Art Structure</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>56. Drawing and Painting</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>101,102. Public School Art.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>105,106. Art Structure; Lettering and Posters</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>151. Art Structure</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>161. Life</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minimum total</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

ROMANIC LANGUAGES AND LITERATURE

The number of credits required for a major or a minor will depend upon the high school preparation of the student. For this reason the requirements for a major, based upon a preparation of two years in college, or three in high school, amount to less than 35 credits, while for a minor they amount to more than 20 credits.

FRENCH

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>41. Phonetics</td>
<td>3</td>
<td>41. Phonetics</td>
</tr>
<tr>
<td>101,102,103. Composition and Conversation</td>
<td>9</td>
<td>101,102,103. Composition and Conversation</td>
</tr>
<tr>
<td>158. Advanced Syntax</td>
<td>4</td>
<td>158. Advanced Syntax</td>
</tr>
<tr>
<td>Educ. 1607. Teachers' Course in French</td>
<td>2</td>
<td>Educ. 1607. Teachers' Course in French</td>
</tr>
<tr>
<td>Nine or ten credits from any of the following:</td>
<td>27</td>
<td>Nine or ten credits from any of the following:</td>
</tr>
</tbody>
</table>

34-35-36 or 124-135-136. General

Romanic Literature            9
118,119,120. Survey of French Literature | 9 |
*121,122,123. French Novel           9
*124,125,126. The Short Story        9
*131,132,133. Lyric Poetry           6
*141,142,143. The French Drama       9
*151,152,153. Hist. of the French Lit. of the 19th Century | 9 |
154,155,156. Contemp. French Lit.    | 9 |
*161,162,163. 18th Century Lit.      | 6 |
*171,172,173. 17th Century Lit.      | 6 |
| Minimum total                  | 27      | Minimum total                             |

A total of not more than five credits may be elected from courses which are conducted in English; at least four of the nine credits must be elected from any of the courses conducted in French.

*Conducted in French.

SPANISH

<table>
<thead>
<tr>
<th>Major</th>
<th>Credits</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>159. Advanced Syntax</td>
<td>3</td>
<td>159. Advanced Syntax</td>
</tr>
<tr>
<td>Nine credits from any of the following:</td>
<td>23</td>
<td>Nine credits from any of the following:</td>
</tr>
</tbody>
</table>

34-35-36 or 124-135-136. General

Romanic Literature            9
118,119,120. Survey of Spanish Literature | 9 |
121,122,123. The Novel             9
141,142,143. Spanish Drama          9
184,185,186. Spanish American Lit.   | 9 |
| Minimum total                  | 23      | Minimum total                             |
### School of Education

#### SOCIOLOGY

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introductory Sociology</td>
<td>1. Introductory Sociology</td>
<td>5</td>
</tr>
<tr>
<td>150. General Sociology</td>
<td>55. Human Ecology</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>55. Human Ecology</td>
<td>61. The Small Town</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>65. The City</td>
<td>66. Group Behavior</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>61. The Small Town</td>
<td>65. The City</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Electives from courses offered in the</td>
<td>Electives from courses offered in the</td>
<td>20</td>
</tr>
<tr>
<td>department after consultation regarding</td>
<td>department after consultation regarding</td>
<td></td>
</tr>
<tr>
<td>the special field of interest</td>
<td>the special field of interest</td>
<td></td>
</tr>
<tr>
<td>Minimum total</td>
<td>Minimum total</td>
<td>35</td>
</tr>
</tbody>
</table>

#### ZOOLOGY

<table>
<thead>
<tr>
<th>Major</th>
<th>Minor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2. Elements of Zoology</td>
<td>1-2. Elements of Zoology</td>
<td>10</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>53-54-55. Physiology</td>
<td>53-54-55. Physiology</td>
<td>15</td>
</tr>
<tr>
<td>Zoology Electives</td>
<td>Zoology Electives</td>
<td>20 to 25</td>
</tr>
<tr>
<td>Minimum total</td>
<td>Minimum total</td>
<td>35</td>
</tr>
</tbody>
</table>

#### Courses of Study

For description of courses offered by the School of Education, see Departments of Instruction section.
LIBRARY SCHOOL

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern), President of the University
Thomson, David, B.A. (Toronto) .....................................................Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ...............Assistant Dean of Faculties

THE FACULTY, 1928-1929

Henry, William Elmer, A.M. (Indiana) ...........Professor of Library Science; Dean of the
Library School
Smith, Charles Wesley, A.B., B.L.S. (Illinois) ...........Professor of Library Science
Worden, Ruth, B.A. (Wellesley), Certificate in Library Science (Wisconsin) ....Assistant
Professor of Library Science
Alfonso, Marie Smart, A.B. (Nebraska), B.S. in L.S. (Washington) ..........Instructor in
Library Science
Putnam, Marguerite E., B.A., B.S. in L.S. (Washington) .......Instructor in Library Science
Andrews, Sir!, Certificates in Library Science (Wisconsin and Western
Reserve) ..................................................Assistant 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 edu­
cation, but neither is sufficient without the other.

Graduates of the School are competent to take charge of a small pub­
lic 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 at least twenty col­
lege credits each in German and French. Other modern languages may
be substituted with the consent of the dean.

2. To students who have qualified for senior standing in the Col­
lege of Liberal Arts or in the elective curricula in the College of Science,
having earned 145 credits, including twenty college credits each in Ger­
man and French, and ten credits in military science, or physical educa­
tion, and including all required work. However, students who lack not
more than fifteen credits of senior standing (including the languages re­
quired above) may be admitted with permission of the dean, but such
students must complete the 180 plus 10 hours required for graduation.

Initial admission to classes in the Library School is permitted only at
the beginning of the college year in October except by special permission
of the Dean of the Library School. No one may be admitted to any
course in the Library School curriculum except as an auditor, unless he
is expecting to complete the entire curriculum.

(139)
For information on general University fees and expenses applicable to all students, see General Information section, page 60.

Loan Fund.—By joint action of the Puget Sound Library Club and the Alumni Association of the Library School, a library school student loan fund has been established, to be known as the University of Washington Library School Loan Fund. This fund is available to students in the Library School who have been in attendance for at least a quarter and have made a satisfactory record. Its purpose is largely to meet emergency needs of the students, rather than to pay expenses through the year. It is administered by a committee of three of which the dean of the school is chairman. Applications to borrow from the fund should be made to him. The fund has been raised by voluntary contributions from the members of the club and the alumni and is open to contribution at any time.

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.

In preparing for the Library School a student should maintain an average of B, as a strong foundation is essential for successful library service. Students not making an average of B in the Library Science courses may at the discretion of the faculty of the Library School be dropped from the Library School.

As no one with serious physical defects or ill health can readily secure a position in library service, such persons should not ask admission to the School.

Persons beyond thirty years of age are advised not to enter the school unless they have already had experience in library service.

The Dean of the Library School is the adviser for all pre-library school students, and electives are to be chosen only with his approval.

Curricula

I. Liberal Arts

A suggested curriculum for pre-library students entering from the College of Liberal Arts, and an outline of the year's work in the Library School is given below. The courses are arranged in the normal order of precedence. For those who take the library curriculum in the senior year no academic major is required as the technical training of the Library School constitutes this major. Academic subjects marked with the double
Curricula

dagger are required; those with a single dagger are strongly recommended; others are suggested electives. All Library School subjects are required.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>70, 71, 72. Shakespeare</td>
<td>3English Language 1-2-3. French or German</td>
</tr>
<tr>
<td>64, 65, 66. Lit. Backgrounds</td>
<td>Psychology 1. General</td>
</tr>
<tr>
<td>5-6. Eng. Pol. and Social</td>
<td>Arch. 3. Appreciation</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Mod. Lang.</em> <em>Fourth q. of foreign language previously taken</em></td>
<td><em>Pol. Sc. 1. Comparative Gov't.</em></td>
</tr>
<tr>
<td>Begin other lang. required by Library School</td>
<td>Socology 1. Introduction</td>
</tr>
<tr>
<td><em>Greek 15-16. Civilization</em></td>
<td>1Econ. 1. Introduction</td>
</tr>
<tr>
<td>Anthropology 1. Evol. of Civ.</td>
<td>7. Geog. Background of Industry</td>
</tr>
<tr>
<td>17. Eugenics</td>
<td>Lib. Arts 1. Intro. to Fine Arts</td>
</tr>
</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phil. 1, 2 or 3. Introduction</td>
<td>120. Prob. Eastern Asia and Pac.</td>
</tr>
<tr>
<td><em>Europe 1814-1870</em></td>
<td><em>117. 19th Cent. Press</em></td>
</tr>
<tr>
<td><em>Europe Since 1870</em></td>
<td><em>134, 165, 166. Am. Lit. from 1870</em></td>
</tr>
<tr>
<td>Pol. Sci. 122. Foreign Affairs</td>
<td><em>174, 175. 19th Cent. Poetry</em></td>
</tr>
<tr>
<td>123. Intern. Relations</td>
<td><em>ScL Phys. 1-2 or Chem. 1-2</em></td>
</tr>
<tr>
<td><em>101. Constitutional Gov. in U.S.</em> and Washington</td>
<td>Fr. Lit.</td>
</tr>
<tr>
<td></td>
<td>1131, 118, 124. Ital. Lit. in Tr.</td>
</tr>
<tr>
<td></td>
<td>Scand. Lit. 1109, 110, 111. Mod. Auth.</td>
</tr>
<tr>
<td></td>
<td>180, 181, 182. Recent Lit.</td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>175. Classif. &amp; Catalog. 4</td>
<td>3</td>
<td>184. Classif. &amp; Cat.</td>
<td>3</td>
<td>101. Classif. &amp; Catalog. 4</td>
<td>3</td>
</tr>
<tr>
<td>177. Reference</td>
<td>2</td>
<td>185. Reference</td>
<td>2</td>
<td>183. Reference</td>
<td>2</td>
</tr>
<tr>
<td>180. Children's Work</td>
<td>2</td>
<td>189. Children's Lit.</td>
<td>2</td>
<td><em>104. Subject Bibliog.</em></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>106. Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>108. Special Lectures</td>
<td>1</td>
</tr>
</tbody>
</table>

1. This requirement may be satisfied by the first course in each of two of these (economics, sociology or political science), or the first course in any combination of them together with five credits in another course for which the one taken first is a prerequisite.

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

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

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

* If Lib. Sc. 183 is elected, sign for Lib. Sc. 186 Practice. 3 hours.

* Elect 194 or 199.
Library School

II. SCIENCE

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

FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod. Lang. 1, 2, 3, French or Ger.</td>
<td>15</td>
</tr>
<tr>
<td>Astronomy 1, General</td>
<td>5</td>
</tr>
<tr>
<td>Psychology 1, Introduction</td>
<td>5</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod. Lang. 4, Fourth quarter of foreign language previously taken</td>
<td>5</td>
</tr>
<tr>
<td>Begin other foreign language required by Library School</td>
<td>10</td>
</tr>
<tr>
<td>Pol. Sci., Econ. or Soc. 1, Intro</td>
<td>5</td>
</tr>
<tr>
<td>English 1-2, Composition</td>
<td>10</td>
</tr>
</tbody>
</table>

THIRD YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod. Lang. 4, Complete Library School Requirement</td>
<td>10</td>
</tr>
<tr>
<td>Botany 1, 2, General</td>
<td>10</td>
</tr>
<tr>
<td>Lib. Arts, 11, Intro. to Fine Arts</td>
<td>5</td>
</tr>
</tbody>
</table>

COURSES OF STUDY

For the work of the lower division and for courses of study the sections of the catalogue relating to the Colleges of Liberal Arts and Science and Departments of Instruction should be consulted.

---

5 The Library School requires 20 hours each of two modern foreign languages, French and German, in either high school or college.
COLLEGE OF BUSINESS ADMINISTRATION

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . . . President of the University
Thomsen, David, B.A. (Toronto) ........................................ Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) .......................... Assistant Dean of Faculties

THE FACULTY, 1928-1929

PROFESSORS

Cox, William E., A.M. (Texas) . . . . . . . . . . Professor of Business Administration; Dean of the College of Business Administration
Burk, Henry A., Ph.D. (Illinois) .................. Professor of Business Administration
Coe, Shirley J., Ph.D. (Chicago) . . . . . . . . Professor of Economics and Business Administration
Dukas, Carl S., B.S. (Missouri) .................. Professor of Business Administration
Frame, Hugh C., Ph.D. (Harvard) .................. Professor of Business Administration
Gould, James E., A.M. (Harvard) .................. Professor of Maritime Commerce
Leib, Karl E., J.D. (Stanford) .................. Professor of Business Administration
Preston, Howard H., Ph.D. (Towa) .................. Professor of Business Administration
Skinner, Macy M., Ph.D. (Harvard) ............... Professor of Business Administration

ASSOCIATE PROFESSORS

Eldred, Wilfred, Ph.D. (Harvard) .................. Associate Professor of Business Administration
Gregory, Homer E., A.M. (Chicago) .................. Associate Professor of Business Administration
McKinnon, Theresa, Ph.D. (Wisconsin) ............ Associate Professor of Economics
Renner, George T. Jr., Ph.D. (Columbia) ............ Associate Professor of Geography
Smith, Harry E., Ph.D. (Cornell) ............ Associate Professor of Business Administration

ASSISTANT PROFESSORS

Ashley, Paul P., LL.B. (Washington) .................. Assistant Professor of Business Administration
McIntyre, Harry J., M.B.A. (Washington) .................. Assistant Professor of Mechanical Engineering
Rice, Paul Hildreth, Lieutenant Commander, U.S.N. .................. Assistant Professor of Naval Science and Tactics

LECTURERS

Davis, Pearce C., C.P.A. .............................. Lecturer on Accounting
Draper, Oscar E., M.Acct. (Vorles Business College) . Lecturer on Business Administration
Fosite, Francis Patrick, B.S. (Harvard) ............ Lecturer on Business Administration
McComaskey, James M., LL.B. (Northwestern), C.P.A. .................. Lecturer on Accounting
Robertson, James F., C.P.A .................. Lecturer on Accounting
Trux, Arthur R. .............................. Lecturer on Business Administration

INSTRUCTORS

Cubbon, Charles E., M.A. (Washington) ........... Instructor in Business Administration
Graves, L. Wallace, M.A. (California) ............... Instructor in Business Administration
Miller, Charles, M.B.A. (Washington) ............... Instructor in Business Administration
Purdy, Henry L., M.A. (Washington) ................... Instructor in Business Administration
Van de Walker, Frank C., M.B.A. (Washington) ........ Instructor in Business Administration
Hamack, Frank H., LL.B. (Georgetown) ............... Associate in Business Administration
Grant, Ruth A., B.B.A. (Washington) ............... Associate in Business Administration

COORDINATING FACULTY

Padelford, Frederick M., Ph.D. (Yale) .................. Professor of English; Dean of the Graduate School
Moritz, Robert Edouard, Ph.D. (Nebraska), Ph.N.D. (Strasbourg) . Professor of Mathematics
Benson, Henry Kreitzer, Ph.D. (Columbia) .................. Professor of Chemical Engineering
Bolton, Frederick Elmer, Ph.D. (Clark) .................. Professor of Education; Dean Emeritus of the School of Education
Raitt, Effie Isabel, A.M. (Columbia) .................. Professor of Home Economics
Smith, Stevenson, Ph.D. (Pennsylvania) .................. Professor of Psychology
Martin, Charles E., Ph.D. (Columbia) .................. Professor of Political Science
McMahon, Edward, A.M. (Wisconsin) .................. Professor of American History

(143)
GENERAL STATEMENT

The College of Business Administration seeks to give the student:

1. That broad cultural training which every well educated man must have.
2. A knowledge of the fundamentals of modern business principles upon which any business man, regardless of his particular field, must build.
3. A keen specialized training in some one major phase of business.
4. A contact with actual business as it is conducted.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning registration and expenses, may be found on pages 59 and 60.

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 53.

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 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:
### Curricula

#### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 1, B.A. 2, General Economics</td>
<td>10</td>
</tr>
<tr>
<td>B.A. 7, Geographic Background of Industry</td>
<td>5</td>
</tr>
<tr>
<td>English 1, Written and Oral English</td>
<td>5</td>
</tr>
<tr>
<td>English 37, Argumentation</td>
<td>5</td>
</tr>
<tr>
<td><em>Physics (10 hours) or Chemistry (10 hours) or Mathematics (10 hours)</em> or Foreign Language (10 hours)**</td>
<td>10</td>
</tr>
<tr>
<td>‡Approved electives</td>
<td>10</td>
</tr>
</tbody>
</table>

#### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 54, 55, 56, Business Law</td>
<td>9</td>
</tr>
<tr>
<td>History 57-58-59, History of the United States</td>
<td>9</td>
</tr>
<tr>
<td>B.A. 62, 63, 64, Accounting</td>
<td>15</td>
</tr>
<tr>
<td>‡Approved electives</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 60, Labor in Industry</td>
<td>5</td>
</tr>
<tr>
<td>†B.A. 103, Money and Banking, or</td>
<td>5</td>
</tr>
<tr>
<td>†B.A. 105, Economics of Marketing and Advertising, or</td>
<td>10</td>
</tr>
<tr>
<td>†B.A. 108, Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>Political Science</td>
<td>5</td>
</tr>
<tr>
<td>‡Approved electives</td>
<td>20</td>
</tr>
</tbody>
</table>

#### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 160, Advanced Economics</td>
<td>5</td>
</tr>
<tr>
<td>‡Approved electives</td>
<td>40</td>
</tr>
</tbody>
</table>

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

No student is allowed to enter the junior-senior courses in the College of Business Administration unless he has reached junior standing and satisfied the prerequisites to these courses. The prerequisites have been established after the most careful consideration of the standard of efficiency and performance aimed at in the course and the educational value of the course for the student. To admit students who have not completed the carefully arranged prerequisites would not only imperil 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.

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* Students majoring in maritime commerce are required to take B.A. 49 (ship operation) and B.A. 52 (navigation). This satisfies the requirement and they are therefore not required to take 10 hours of physics, chemistry, mathematics, or foreign language.

** Students electing foreign language to satisfy this requirement who have not had 2 units of the language chosen in high school must take 20 hours in the college, ten hours of which will count as electives.

† Of the total 82 hours of electives, 10 must be chosen from Philosophy, Psychology, Sociology or Political Science. Of the approved electives in the junior and senior years at least 25 hours must be in the upper division courses in economics and business administration.

‡ Students are required to take 10 hours selected from the three courses, B.A. 108, B.A. 106, B.A. 108.
College of Business Administration

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.

MAJORS IN ECONOMICS IN THE COLLEGE OF LIBERAL ARTS

Students in the College of Liberal Arts choosing economics as their major, or in the School of Education choosing economics as their minor, should consult with the head of the department of economics or the professor in charge of advanced economics with regard to a proper selection of courses. A major in economics must include B.A. 1, 2, 160, and at least 35 additional hours chosen from the following list; a minor in economics must include B.A. 1, 2, 160, and 5 additional hours selected from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 60. Labor in Industry</td>
<td>5</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>104. Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>100. Economics of Marketing and Advertising</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>122. Principles of Investment</td>
<td>5</td>
</tr>
<tr>
<td>124. Public Finance</td>
<td>5</td>
</tr>
<tr>
<td>129. Taxation</td>
<td>5</td>
</tr>
<tr>
<td>131. Economics of Public Utilities</td>
<td>5</td>
</tr>
<tr>
<td>169. Advanced Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>162. European Labor Problems</td>
<td>5</td>
</tr>
<tr>
<td>164. Land Economics and Real Est.</td>
<td>5</td>
</tr>
<tr>
<td>165. Labor Legislation</td>
<td>5</td>
</tr>
<tr>
<td>168. Development of Econ. Thought</td>
<td>5</td>
</tr>
<tr>
<td>171. Modern Trends and Criticism</td>
<td>5</td>
</tr>
<tr>
<td>181. Economics of Consumption</td>
<td>5</td>
</tr>
</tbody>
</table>

PRE-LAW CURRICULUM—THREE-YEAR COURSE IN BUSINESS ADMINISTRATION

Combined Six-year Course in Business Administration and Law.—It is possible to obtain the degree of Bachelor of Business Administration and Bachelor of Laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the Business Administration course. Students planning to take advantage of the combined six-year curriculum may omit Business Law (B.A. 54, 55, 56) and substitute therefor first-year law courses after entrance to the Law School. To have the benefit of this combined course, students must maintain a uniformly good record and must in the first three years earn 144 business administration credits, together with the 10 credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Service, if necessary.

At the beginning of the fourth year, if a student has earned 144 credits and 10 credits of required military science or physical education, he may enter the School of Law and there earn 36 credits which will be counted toward his Bachelor of Business Administration degree. He will be granted the Bachelor of Business Administration degree at the end of the fourth year, or as soon as he completes the required work above specified and 36 credits in the School of Law, making a total of 190 credits for graduation in business administration. The degree of Bachelor of Laws will be conferred upon completion of his work in the Law School. In exceptional cases where the student lacks part of the 144 business administration credits the dean of the Law School may, upon written petition, permit registration in the Law School, the necessary credits to satisfy the combined degree to be completed subsequently.
Curricula

Selection of Major.—In the 144 business administration credits must be included a major of at least 25 upper division credits, together with all the specified requirements of the college. The major must be selected by the student taking the combined six-year course upon acquiring junior standing, pursuant to the regulations relating to majors prescribed for the College of Business Administration. These are given below.

Suggested Courses for Majors in College of Business Administration

Either before or in the third quarter of the sophomore year each student in the College of Business Administration will be required to select a major field. He is then placed in contact with an instructor working in that field who will advise him.

The courses suggested for majors are in the following fields:

(a) Economics
(b) Accounting
(c) Business Finance
(d) Commercial Teaching and Secretarial Training
(e) Foreign Trade and Consular Service
(f) Management
(g) Insurance
(h) Marketing, Merchandising and Advertising
(i) Transportation and Maritime Commerce
(j) Labor
(k) Public Utilities
(l) Statistics
(m) General Business

Students majoring in these fields must:
1. Satisfy the general requirements of the University and the College of Business Administration outlined on page 145;
2. Take certain required fundamental courses in the major field unless otherwise indicated below;
3. Take a minimum of 25 upper division credit hours in the major field;
4. Have their selection of courses approved by their major professor.

The following outlines of work in the several major fields are suggestive only. With the exception of the specifically required courses, arrangements may be made to suit individual needs. The electives should be chosen after consultation with the major professor.

(A) Economics

Students in the College of Business Administration selecting economics as their major must elect 25 hours from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 61. Social and Economic Standards of Living</td>
<td>3</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>104. Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>106. Economics of Marketing and Advertising</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>122. Principles of Investment</td>
<td>5</td>
</tr>
<tr>
<td>124. Public Finance</td>
<td>5</td>
</tr>
<tr>
<td>129. Taxation</td>
<td>5</td>
</tr>
<tr>
<td>131. Economics of Public Utilities</td>
<td>5</td>
</tr>
<tr>
<td>135. Advanced Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>136. Labor Economics</td>
<td>5</td>
</tr>
<tr>
<td>137. European Labor Problems</td>
<td>5</td>
</tr>
<tr>
<td>138. Land Economics and Real Est.</td>
<td>5</td>
</tr>
<tr>
<td>139. Labor Legislation</td>
<td>5</td>
</tr>
<tr>
<td>160. Women In Industry</td>
<td>2</td>
</tr>
<tr>
<td>168. Development of Econ. Thought</td>
<td>5</td>
</tr>
<tr>
<td>171. Modern Trends of Criticism</td>
<td>5</td>
</tr>
<tr>
<td>181. Economics of Consumption</td>
<td>5</td>
</tr>
</tbody>
</table>

There are no specifically required courses other than those listed in the general requirements of the College (page 145).

(B) Accounting

Three groups of courses are offered in accounting to fit the student for business positions. The first group consisting of 62, 63, and 64, required of all majors in business administration, is devised for the purpose of

* If not selected to fulfill the third year general college requirement.
training the prospective business man in the fundamentals of accounting principles as well as in the interpretation of the ordinary accounts and financial statements. The second group consists of B.A. 110, 111 and 112, which are desirable pre-professional courses that prepare the student in the fundamentals of practical technique. The third group consists of B.A. 154, 155, 156, 157, 184 and 191 which are professional in nature, devised to fit the student for examination for the certificate as a public accountant and for general accounting practice. For students in other colleges a general survey course, B.A. 65, is offered.

A major is required to take 25 hours selected from upper division courses in accounting.

The following courses are suggested as electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 59. Graphic and Tabular Analysis</td>
<td>5</td>
</tr>
<tr>
<td>102. Office Management</td>
<td>5</td>
</tr>
<tr>
<td>105. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>107. Traffic Management</td>
<td>5</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>122. Principles of Investment</td>
<td>5</td>
</tr>
<tr>
<td>124. Public Finance</td>
<td>5</td>
</tr>
<tr>
<td>126. Commercial Credits</td>
<td>5</td>
</tr>
<tr>
<td>130. Industrial Analysis and Control</td>
<td>5</td>
</tr>
<tr>
<td>136. Market Analysis</td>
<td>5</td>
</tr>
<tr>
<td>168. Industrial Management</td>
<td>5</td>
</tr>
<tr>
<td>169. Principles of Real Estate</td>
<td>5</td>
</tr>
<tr>
<td>172. Executive Technique</td>
<td>5</td>
</tr>
<tr>
<td>186. Research in Management</td>
<td>5</td>
</tr>
<tr>
<td>187-8. Law of Private Corpor'ns</td>
<td>6</td>
</tr>
<tr>
<td>Law 187-8. Law of Private Corpor'ns</td>
<td>6</td>
</tr>
</tbody>
</table>

**C Business Finance**

A major in Business Finance:

(a) Should take Mathematics 11 and 13, either to satisfy the freshman requirement in mathematics, or as electives.

(b) Must take B.A. 103, Money and Banking (5), to be taken preferably either in the third quarter sophomore year or first quarter junior year, and B.A. 121, Corporation Finance (5).

(c) Must take at least 20 additional hours of upper division courses selected from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 105. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>122. Principles of Investment</td>
<td>5</td>
</tr>
<tr>
<td>124. Public Finance</td>
<td>5</td>
</tr>
<tr>
<td>125. Banking Organization and</td>
<td>5</td>
</tr>
<tr>
<td>Administration</td>
<td></td>
</tr>
<tr>
<td>128. Commercial Credits</td>
<td></td>
</tr>
<tr>
<td>127. Foreign Exchange</td>
<td></td>
</tr>
<tr>
<td>Law 187. Negotiable Instruments</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
</tbody>
</table>

(d) May select other courses from the following preferred list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 59. Graphic and Tabular Analysis</td>
<td>5</td>
</tr>
<tr>
<td>104. Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>105. Economics of Marketing and</td>
<td>5</td>
</tr>
<tr>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>121. Economics of Public Utilities</td>
<td>5</td>
</tr>
<tr>
<td>124. Land Economics and Real Est.</td>
<td>5</td>
</tr>
</tbody>
</table>

**D Commercial Teaching and Secretarial Training**

1. Secretarial Training

For students registered in the College of Business Administration, and majoring in secretarial training, the following schedule of courses should be followed after the requirements of the first two years have been fulfilled:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 81. Secretarial Training I</td>
<td>5</td>
</tr>
<tr>
<td>82 Secretarial Training II</td>
<td></td>
</tr>
<tr>
<td>83. Office Training and Practice</td>
<td>5</td>
</tr>
<tr>
<td>102. Office Management</td>
<td>5</td>
</tr>
<tr>
<td>105. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>115. Business Correspondence</td>
<td>5</td>
</tr>
<tr>
<td>107. Employment Management</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>121. Economics of Public Utilities</td>
<td></td>
</tr>
<tr>
<td>124. Land Economics and Real Est.</td>
<td>5</td>
</tr>
<tr>
<td>English (5 hours). In addition to work required of all students in the College of Business Administration.</td>
<td></td>
</tr>
</tbody>
</table>
2. Commercial Teaching

Following are the specific requirements for major and minor recommendations for the normal diploma in commercial teaching. Either major or minor requirements are based upon the general pre-business curriculum of the first two years of the College of Business Administration.

### (Major)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Business (First two years)</td>
<td>90</td>
</tr>
<tr>
<td>Business Management</td>
<td>115</td>
</tr>
<tr>
<td>Business Organization</td>
<td>105</td>
</tr>
<tr>
<td>Business Correspondence</td>
<td>115</td>
</tr>
<tr>
<td>Office Training and Practice</td>
<td>102</td>
</tr>
<tr>
<td>Money and Banking</td>
<td>103</td>
</tr>
<tr>
<td>Office Management</td>
<td>102</td>
</tr>
<tr>
<td>Money and Banking</td>
<td>102</td>
</tr>
<tr>
<td>Business Organization</td>
<td>105</td>
</tr>
<tr>
<td>Business Correspondence</td>
<td>115</td>
</tr>
<tr>
<td>Secretarial Training I, II</td>
<td>81-82</td>
</tr>
<tr>
<td>Introduction to Education</td>
<td>101</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>119</td>
</tr>
<tr>
<td>Psychology of Methods</td>
<td>140</td>
</tr>
<tr>
<td>Practice Teaching</td>
<td>145</td>
</tr>
<tr>
<td>Com. Teachers' Course; or</td>
<td>160D</td>
</tr>
<tr>
<td>Shorthand and Typewriting</td>
<td>160DD</td>
</tr>
<tr>
<td>Approved Minor (Minimum)</td>
<td>20</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>14</td>
</tr>
</tbody>
</table>

### (Minor)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Business (First two years)</td>
<td>90</td>
</tr>
<tr>
<td>Business Management</td>
<td>115</td>
</tr>
<tr>
<td>Business Organization</td>
<td>105</td>
</tr>
<tr>
<td>Business Correspondence</td>
<td>115</td>
</tr>
<tr>
<td>Secretarial Training I, II</td>
<td>81-82</td>
</tr>
<tr>
<td>Introduction to Education</td>
<td>101</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>119</td>
</tr>
<tr>
<td>Psychology of Methods</td>
<td>140</td>
</tr>
<tr>
<td>Practice Teaching</td>
<td>145</td>
</tr>
<tr>
<td>Com. Teachers' Course; or</td>
<td>160D</td>
</tr>
<tr>
<td>Shorthand and Typewriting</td>
<td>160DD</td>
</tr>
<tr>
<td>Approved Minor (Minimum)</td>
<td>20</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>14</td>
</tr>
</tbody>
</table>

### (E) FOREIGN TRADE AND CONSULAR SERVICE

1. Foreign Trade

A student majoring in foreign trade:

(a) Must take the following twenty-five hours of upper division courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exporting and Importing</td>
<td>10</td>
</tr>
<tr>
<td>Trade of the Far and Near East</td>
<td>5</td>
</tr>
</tbody>
</table>

(b) Should elect as many as possible of the following essential courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>Water Transportation</td>
<td>5</td>
</tr>
<tr>
<td>Foreign Exchange</td>
<td>5</td>
</tr>
<tr>
<td>Marketing of Food Products</td>
<td>5</td>
</tr>
<tr>
<td>Market Analysis</td>
<td>5</td>
</tr>
<tr>
<td>Maritime Insurance</td>
<td>5</td>
</tr>
<tr>
<td>Rail and Marine Rates</td>
<td>5</td>
</tr>
<tr>
<td>International Commercial Policies</td>
<td>5</td>
</tr>
<tr>
<td>Research in Foreign Trade</td>
<td>2-5</td>
</tr>
</tbody>
</table>

(c) Should choose some of the following recommended courses if he has time and inclination to pursue them:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports and Terminals</td>
<td>3</td>
</tr>
<tr>
<td>Shipping and Consular Reg.</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>Admiralty Law</td>
<td>5</td>
</tr>
<tr>
<td>International Law</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Relations</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Affairs</td>
<td>3</td>
</tr>
</tbody>
</table>

(d) Should take some modern foreign language; twenty hours, if possible, or ten hours if he has had two years of language work in high school.

*In lieu of the 90 hours of pre-business, students entering the School of Education from normal schools or other colleges than Business Administration shall be required to take B.A. 7, Geographic Backgrounds of Industry (5); B.A. 54, 55, 56, Business Law (9); B.A. 62, 63, 64, Principles of Accounting (15). B.A. 1 and 2, General Economics, are prerequisites for B.A. 62, 63 and 64.
2. Consular and Government Trade Service

A student majoring in this department:

(a) Must take the following twenty-five hours of upper division courses:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 117,118. Exporting and Importing</td>
<td>10</td>
</tr>
<tr>
<td>143. Trade of the Far and Near East</td>
<td>5</td>
</tr>
<tr>
<td>144. Trade of Europe</td>
<td>5</td>
</tr>
<tr>
<td>145. Trade of the Americas</td>
<td>5</td>
</tr>
</tbody>
</table>

(b) Should elect as many as possible of the following essential courses:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 127. Foreign Exchange</td>
<td>5</td>
</tr>
<tr>
<td>152. Shipping and Consular Reg.</td>
<td>3</td>
</tr>
<tr>
<td>173. Commercial Policies</td>
<td>5</td>
</tr>
<tr>
<td>Law 184-185. International Law</td>
<td>6</td>
</tr>
</tbody>
</table>

(c) Should choose some of the following recommended courses if he has time and inclination to pursue them:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 104. Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>118. Ports and Terminals</td>
<td>3</td>
</tr>
<tr>
<td>119. Water Transportation</td>
<td>5</td>
</tr>
<tr>
<td>136. Market Analysis</td>
<td>5</td>
</tr>
<tr>
<td>149. Marine Insurance</td>
<td>5</td>
</tr>
<tr>
<td>151. Rail and Marine Rates</td>
<td>5</td>
</tr>
<tr>
<td>159. Adv. Money and Banking</td>
<td>5</td>
</tr>
</tbody>
</table>

(d) Should take at least thirty hours of university work in a modern foreign language or twenty in case he has had two years of language work in high school.

(F) MANAGEMENT

A management major:

(a) Is required to take Mathematics 11 and 13, either as fulfilling the requirement of the College of Business Administration in mathematics, or as electives, and

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 130. Industrial Analysis and Control</td>
<td>5</td>
</tr>
<tr>
<td>183. Industrial Management</td>
<td>5</td>
</tr>
</tbody>
</table>

(b) Should select electives from the following preferred list:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 50. Graphic and Tabular Analysis</td>
<td>5</td>
</tr>
<tr>
<td>101. Office Management</td>
<td>5</td>
</tr>
<tr>
<td>104. Economies of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>105. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>106. Economies of Marketing and Advertising</td>
<td>5</td>
</tr>
<tr>
<td>107. Traffic Management</td>
<td>5</td>
</tr>
<tr>
<td>120. Industrial Relations</td>
<td>5</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>126. Commercial Credits</td>
<td>5</td>
</tr>
<tr>
<td>128. Human Waste In Industry</td>
<td>5</td>
</tr>
<tr>
<td>136. Market Analysis</td>
<td>5</td>
</tr>
<tr>
<td>154, 155. Cost Accounting</td>
<td>10</td>
</tr>
<tr>
<td>158. Managerial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>161. Labor Economics</td>
<td>5</td>
</tr>
</tbody>
</table>

(G) INSURANCE

(a) All majors in insurance must take B.A. 108, Risk and Risk Bearing (5).

(b) Majors should take:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 130. Social Insurance</td>
<td>5</td>
</tr>
<tr>
<td>141. Fire Insurance</td>
<td>5</td>
</tr>
<tr>
<td>142. Life Insurance</td>
<td>5</td>
</tr>
</tbody>
</table>
It is advisable that a large proportion of the electives should be selected from the following list of courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 67. Paper Work in Shipping</td>
<td>5</td>
</tr>
<tr>
<td>102. Office Management</td>
<td>5</td>
</tr>
<tr>
<td>119. Water Transportation</td>
<td>5</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>122. Principles of Investment</td>
<td>5</td>
</tr>
<tr>
<td>127. Foreign Exchange</td>
<td>5</td>
</tr>
<tr>
<td>138. Sales Management</td>
<td>5</td>
</tr>
<tr>
<td>145. Trade of the Far and Near East</td>
<td>5</td>
</tr>
<tr>
<td>161. Labor Economics</td>
<td>5</td>
</tr>
<tr>
<td>166. Women in Industry</td>
<td>5</td>
</tr>
<tr>
<td>127. Foreign Exchange</td>
<td>5</td>
</tr>
<tr>
<td>138. Sales Management</td>
<td>5</td>
</tr>
<tr>
<td>145. Trade of the Far and Near East</td>
<td>5</td>
</tr>
<tr>
<td>161. Labor Economics</td>
<td>5</td>
</tr>
<tr>
<td>166. Women in Industry</td>
<td>5</td>
</tr>
</tbody>
</table>

The courses selected should depend upon the field in insurance in which the student has particular interest—fire, life, marine, casualty or social.

**E) MARKETING, MERCHANDISING AND ADVERTISING**

1. Marketing

Students majoring in marketing:
(a) Must take B.A. 106, Economics of Marketing and Advertising (5), preferably in the third quarter of the sophomore year or the first quarter of the junior year, and

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 134. Marketing Problems</td>
<td>5</td>
</tr>
<tr>
<td>135. Marketing Northwest Products</td>
<td>5</td>
</tr>
</tbody>
</table>

(b) Should choose electives from the following preferred list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 59. Graphic and Tabular Analysis</td>
<td>5</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>104. Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>117, 118. Exporting and Importing</td>
<td>5</td>
</tr>
<tr>
<td>137. Advertising Campaigns</td>
<td>5</td>
</tr>
<tr>
<td>138. Sales Management</td>
<td>5</td>
</tr>
</tbody>
</table>

2. Merchandising

Students majoring in merchandising:
(a) Must take B.A. 106, Economics of Marketing and Advertising (5), preferably in the third quarter of the sophomore year or the first quarter of the junior year, and

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 146. Retail Sales Problems</td>
<td>5</td>
</tr>
<tr>
<td>147. Retail Buying Problems</td>
<td>5</td>
</tr>
</tbody>
</table>

(b) Should choose electives from the following preferred list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 59. Graphic and Tabular Analysis</td>
<td>5</td>
</tr>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>109. Advertising Principles and Practice</td>
<td>5</td>
</tr>
<tr>
<td>128. Commercial Credits</td>
<td>5</td>
</tr>
<tr>
<td>138. Market Analysis</td>
<td>5</td>
</tr>
<tr>
<td>138. Sales Management</td>
<td>5</td>
</tr>
</tbody>
</table>

3. Advertising

Students majoring in advertising:
(a) Must take B.A. 106, Economics of Marketing and Advertising (5), preferably in the third quarter of the sophomore year or the first quarter of the junior year, and

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 106. Advertising Principles and Practice</td>
<td>5</td>
</tr>
<tr>
<td>138. Market Analysis</td>
<td>5</td>
</tr>
</tbody>
</table>
(b) Should choose electives from the following preferred list:

<table>
<thead>
<tr>
<th>Credits</th>
<th>B.A. 59. Graphic and Tabular Analysis</th>
<th>131. Display Advertising</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>103.</td>
<td>Money and Banking</td>
<td>133. Advertising Typography</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>104.</td>
<td>Marketing Problems</td>
<td>135. Publicity</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>105.</td>
<td>Marketing Northwest Products</td>
<td>P.S.&amp;D. 5,6,7. Drawing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>110.</td>
<td>The Cooperative Movement</td>
<td>9, 10, 11. Art Structure</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Eng. 51.</td>
<td>Advanced Composition</td>
<td>113. Commercial Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Jour. 51.</td>
<td>News Writing</td>
<td>115. General Psychology</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

(1) TRANSPORTATION AND MARITIME COMMERCE

1. Transportation

The major should:

(a) Have Mathematics 11 and 13, or an equivalent giving a fundamental knowledge of statistics.

(b) Elect as many as possible of the following essential courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>B.A. 67. Paper Work in Shipping</th>
<th>113. Ports and Terminals</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>104.</td>
<td>Economics of Transportation</td>
<td>150. Railroad Finance and Administration</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>107.</td>
<td>Traffic Management</td>
<td>151. Rail and Marine Rates</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>110.</td>
<td>Water Transportation</td>
<td>152. Shipping and Consular Reg.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

(c) Choose other electives from the following preferred list:

<table>
<thead>
<tr>
<th>Credits</th>
<th>B.A. 49. Ship Operation</th>
<th>161. Labor Economics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>59.</td>
<td>Graphic and Tabular Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>103.</td>
<td>Money and Banking</td>
<td>163. Industrial Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>100.</td>
<td>Economics of Marketing and Advertising</td>
<td>175. The Business Cycle</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>108.</td>
<td>Risk and Risk Bearing</td>
<td>177. Business Forecasting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>121.</td>
<td>Corporation Finances</td>
<td>195. Research in Transportation and Foreign Trade</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>2-5</td>
</tr>
<tr>
<td>122.</td>
<td>Principles of Investment</td>
<td>120. Transportation Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>130.</td>
<td>Industrial Analysis and Control</td>
<td>121. Transportation Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>131.</td>
<td>Economics of Public Utilities</td>
<td>122. Transportation Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>133.</td>
<td>Control of Public Utilities</td>
<td>125. Railways</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>143.</td>
<td>Trade of the Far and Near East</td>
<td>127. Yards and Terminals</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>144.</td>
<td>Trade of Europe</td>
<td>140. Marine Insurance</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>145.</td>
<td>Trade of the Americas</td>
<td>141. Airships</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>146.</td>
<td>Marine Insurance</td>
<td>142. Aeronautical Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

2. Maritime Commerce

The major:

(a) Should have a fundamental mathematics training in algebra, plane and spherical trigonometry. This may have been obtained in high school or can be made up by appropriate mathematics courses in the University (e.g., Math. 4).

(b) Is advised to choose the following electives:

* B.A. 49. Ship Operation | 104. Economics of Transportation | 5
* 97. Paper Work in Shipping | 113. Ports and Terminals | 3
* 42. Wharf Management | 119. Water Transportation | 5
* 61. Navigation | 152. Shipping and Consular Reg. | 3

*Preferably during the first year.

**Preferably during the second year.
Attention is called to the curricula of the College of Engineering in Naval Architecture and Marine Engineering.

The major (a) Must take:

<table>
<thead>
<tr>
<th>Credits</th>
<th>B.A. 52. Navigation</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits</td>
<td>B.A. 106. Economics of Marketing and Advertising</td>
<td>5</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 107. Traffic Management</td>
<td>5</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 114. Aerial Navigation</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 127. Foreign Exchange</td>
<td>5</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 161. Labor Economics</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 131. Econ.</td>
<td>5</td>
</tr>
<tr>
<td>Credits</td>
<td>B.A. 162. European Labor Problems</td>
<td>5</td>
</tr>
</tbody>
</table>

(b) Should elect from the following preferred list:

| Credits | B.A. 61. Social and Economic Standards of Living | 3 |
| Credits | B.A. 104. Economics of Transportation | 5 |
| Credits | B.A. 120. Industrial Relations | 3 |
| Credits | B.A. 124. Public Finance | 5 |
| Credits | B.A. 128. Human Waste in Industry | 3 |
| Credits | B.A. 165. Labor Employment Management | 3 |
| Credits | B.A. 175. The Business Cycle | 5 |
| Credits | B.A. 181. Economics of Consumption | 5 |
| Credits | Psych. 1. General Psychology | 5 |
| Credits | Soc. 1. Introduction | 5 |
| Credits | 66. Group Behavior | 5 |
| Credits | 67. Urban Attitudes | 5 |
| Credits | 65. National Traits | 5 |
| Credits | 181. Social Statistics | 5 |

(K) PUBLIC UTILITIES

A typical arrangement of courses for a student majoring in public utilities would be as follows:

(a) Mathematics 11 and 13, either as fulfilling the requirement of the College of Business Administration in mathematics, or as electives.

(b) Should elect from the following preferred list:

| Credits | B.A. 131. Econ. of Public Utilities | 5 |
| Credits | B.A. 132. Management of Public Utilities | 5 |
| Credits | 133. Control of Public Utilities | 5 |

(c) Electives from the following preferred list:

| Credits | B.A. 59. Graphic and Tabular Analysis | 5 |
| Credits | B.A. 104. Economics of Transportation | 5 |
| Credits | B.A. 105. Business Organization | 5 |
| Credits | B.A. 106. Economics of Marketing and Advertising | 5 |
| Credits | B.A. 110,111,112. Advanced Accounting | 15 |
| Credits | B.A. 121. Corporation Finance | 5 |
| Credits | B.A. 122. Principles of Investment | 5 |
| Credits | 124. Public Finance | 5 |
| Credits | 125. Industrial Analysis and Control | 5 |
| Credits | 130. Market Organization | 5 |
| Credits | 131. Market Analysis | 5 |
| Credits | 132. Sales Management | 5 |
| Credits | 155. Managerial Accounting | 5 |
| Credits | 167. Employment Management | 5 |
| Credits | 176. Investment Analysis | 5 |

(L) STATISTICS

The major (a) Must take:

| Credits | B.A. 59. Graphic and Tabular Analysis | 5 |
| Credits | 175. The Business Cycle | 5 |
| Credits | 177. Business Forecasting | 5 |
| Credits | Math. 11. Theory of Investments | 5 |
| Credits | 13. Elem. of Statistical Method | 5 |
| Credits | G.E. 1. Engineering Drawing | 3 |
(b) Should elect as many as possible of the following essential courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>103. Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>104. Economics of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>105. Business Organization</td>
<td>5</td>
</tr>
<tr>
<td>106. Economics of Marketing and Advertising</td>
<td>5</td>
</tr>
<tr>
<td>108. Risk and Risk Bearing</td>
<td>5</td>
</tr>
</tbody>
</table>

(c) May elect other courses from the following preferred list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>110,111,112. Adv. Accounting</td>
<td>15</td>
</tr>
<tr>
<td>121. Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>124. Public Finance</td>
<td>5</td>
</tr>
<tr>
<td>130. Industrial Analysis and Control</td>
<td>5</td>
</tr>
<tr>
<td>154,155. Cost Accounting</td>
<td>10</td>
</tr>
<tr>
<td>158. Managerial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>172. Executive Technique</td>
<td>5</td>
</tr>
<tr>
<td>Soc. 131. Social Statistics</td>
<td>5</td>
</tr>
<tr>
<td>Math. 151. Mathematical Theory of Finance</td>
<td></td>
</tr>
<tr>
<td>152. Mortality Tables</td>
<td></td>
</tr>
<tr>
<td>153. Insurance—Premiums and Reserves</td>
<td></td>
</tr>
</tbody>
</table>

(M) GENERAL BUSINESS

A student in the College of Business Administration not wishing to specialize in any of the above fields but preferring to combine fields may, with approval, be permitted a wide choice of business subjects.

He should be careful to meet the following general requirements:

(a) He must fulfill the general requirements of the College of Business Administration (page 145).

(b) He must take at least twenty-five hours of upper division courses listed under the College of Business Administration.

GENERAL INFORMATION

Textbooks—Syllabus Fees.—Many courses in the College of Business Administration require textbooks. The faculty aims to keep textbook expense as low as is consistent with a high standard of class work.

Syllabus or consultation fees are asked in all courses. The service rendered is necessary and valuable. With the exception of three secretarial training courses, B.A. 81, 82, 83, at $5, this fee has been fixed at $.50 a course. A fee of $10 will be asked for any one quarter of instruction in shorthand or typewriting, as these are not a part of the regular curriculum and must finance themselves.

Library Facilities.—The college is placing in the library a large number of supplementary reports. For many years government reports, containing a vast amount of material for the student of business, have been filed in the library. Most of the domestic journals in economics and commerce, as well as many foreign ones, are received by the college. Each student is expected to make use of the material and report from time to time on current topics of interest.

Student Organizations.—A number of honorary and professional societies with national affiliations have been established in the College of Business Administration. Beta Gamma Sigma and Beta Alpha Psi (accounting), honorary fraternities, and Alpha Kappa Psi, a professional fraternity for men, at present count chapters in many institutions. Membership is based on high scholarship. Their aim is to promote serious study of business problems. Gamma Epsilon Pi, honorary, is a similar organization among the women specializing in business administration. Its purpose is not social, but professional, and membership is restricted to candidates for the B.B.A. degree. A number of prominent business women in Seattle and eastern cities are honorary members. Alpha Delta Sigma is a professional organization for men, and Gamma Alpha Chi for women, interested in advertising. The parent chapter of Pan Xenia, a professional and international society for major students in foreign trade, was founded in 1918 at the University of Washington and bids fair to play an important part in the future of our
foreign trade department. The University Women's Vocational Club was formed in 1927, its purpose being to bring about a spirit of friendliness and comradeship among women interested in business as a profession and to acquaint university women with vocational opportunities through personal contacts with downtown women's clubs.

**Required Military Science and Physical Education.**—The University requirements in military science, physical education and hygiene are satisfied as follows:

- **Men Students.**—Freshmen and sophomores, five hours of military science per week each year.
- **Women Students.**—Participation in healthful activities for the first four quarters, and the lecture course on the fundamentals of healthful and efficient living.

**Correspondence.**—Inquiries in regard to the College of Business Administration may be addressed to the dean of the college.

**Contact with Actual Business.**—The business men in the state and especially in the city of Seattle, are cooperating in a most genuine way with the College of Business Administration. Students are encouraged to avail themselves of the many opportunities to do part-time work in local concerns along their chosen lines.

In addition to part-time employment an alternating quarter system of office practice and academic work has been established in the division of maritime commerce. The office practice work is made a definite part of the training.

During the senior year, or during a year of graduate work, students specializing in marketing, merchandising or advertising are given opportunity to spend alternate quarters in actual business under the immediate supervision of a field director. This plan involves either attendance at summer school or working under supervision during the summer between the junior and senior years. These apprenticeships are made possible by the active cooperation of business houses. They give the student the benefit of a favorable introduction to the best business practice, and also give him this introduction while he is still in college. His theories may be vitalized by supervision of department heads in the business and the teacher of theory in college discussing with him the application of theory to actual business as the student finds it.

**The Students' Advisory Council.**—The B.A. Council, organized in the autumn quarter of 1919 by the students of the college, is a representative body having as its members three officers, two representatives from each of the three upper undergraduate classes, one representative from the freshman class, and one from the graduate school. It functions in an advisory capacity on matters relating to standard of scholarship, student esprit-de-corps, cooperation between the faculty and the student body on other matters which are brought to its attention by the faculty or the student body. The regular business administration assemblies are organized and conducted under the direction of the council.

The mentor system is the conception of this council. The plan provides for the appointment of a group of senior and graduate students to meet the freshmen of the college at a certain appointed time during each quarter. The mentors take the responsibility of seeing that every freshman student in his or her group gets the largest possible benefit out of his college life.

**Fellowships.**—The college is now in a position to grant several fellowships with the opportunity for assisting in the instruction. Address Dean of the College of Business Administration.
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College of Business Administration

Outside Lectures.—The College of Business Administration supplements as far as possible the work given with practical lectures and discussions by business men. Many of the leading business men of Seattle and the state have delivered lectures in their special fields to classes.

COURSES OF STUDY

For description of courses offered by the College of Business Administration, see Departments of Instruction section.
SCHOOL OF JOURNALISM

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . President of the University
Thomson, David, B.A. (Toronto) . Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) . Assistant Dean of Faculties

THE FACULTY, 1928-1929

McKenzie, Vernon, B.A. (Toronto), A.M. (Harvard) . Professor of Journalism; Dean of the School of Journalism
Jones, Robert William, A.B., LL.B. (Missouri), A.M. (South Dakota) . Associate Professor of Journalism
Kennedy, Fred Washington . Director of the Journalism Laboratories
Christian, Byron Hunter, B.A. (Washington) . Instructor in Journalism
Fruedfeld, Mildred Lee, B.A. (Washington) . Secretary to the Dean

Meany, Edmond Stephen, M.L. (Wisconsin), LL.D. (College of Puget Sound) . Professor of History
Savery, William, Ph.D. (Harvard) . Professor of Philosophy
Frein, Pierre Joseph, Ph.D. (Johns Hopkins) . Professor of Romance Languages
Smith, Stevenos, Ph.D. (Pennsylvania) . Professor of Psychology
Woolston, Howard, Ph.D. (Columbia) . Professor of Sociology
Martin, Charles E., Ph.D. (Columbia) . Professor of Political Science
Griffith, Dudley D., Ph.D. (Chicago) . Professor of English
Ashley, Paul P., LL.B. (Washington) . Associate Professor in Business Administration
Patterson, Ambrose . Assistant Professor of Fine Arts
Hamack, Frank H., LL.B. (Georgetown) . Associate 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 in both the business and editorial sides, and to provide such studies as are best adapted to give the broad training necessary for successful pursuits of journalism as a profession. In the first the courses include reporting, copy reading, editorial writing, advertising, trade journalism, the mechanics of printing and publishing, and the practical work of the business and administrative offices. In the second are history, economics, political science, sociology, philosophy, psychology, language, literature, and similar subjects necessary in developing the broader scholarship indispensable in modern journalism.

This double ideal of the School of Journalism curriculum has justified itself in the steady demands of Pacific coast editors for University graduates.

Equipment.—Journalism and printing take up the entire first floor of Commerce Hall, 208x70 feet. On this floor are the class rooms, the journalism library and reading room, the faculty offices, the University Press, and all the mechanical equipment for teaching practical journalism. The University Press does virtually all the campus printing.

Frederick A. Churchill Junior Memorial Library.—In March, 1918, a separate journalism library and reading room was opened, known as the Frederick A. Churchill Junior Memorial Library, in memory of a brilliant student of the school who died in 1916 while engaged in newspaper work in New York. The Memorial Library contains carefully selected books
and periodicals, relating to printing, advertising, current events, short story, feature writing and all phases of the editorial side of the newspaper.

Journalism "Morgue."—In the Memorial Library is a journalism reference "morgue," for newspaper and periodical clippings on topics of interest to the student of journalism.

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.—Four 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 chapters of Alpha Delta Sigma, national advertising fraternity for men, and Gamma Alpha Chi, for women.

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 a large per cent of the men in the School of Journalism were earning their way wholly or in part. The dean of the school has frequent calls from editors, publishers, and managers of printing plants for students with some experience to do part time work in advertising, publicity, and reporting. All the local newspapers and many of the more important dailies in neighboring cities maintain special reporters and correspondents at the University. Remuneration for the various kinds of work ranges up to $100 a month, according to the service given. Promise of employment, however, cannot be made in advance. Positions usually are given those on the ground who are able to show by actual experience that they can do the work required. In general, a student should have an assurance of $500 or more before enrolling in the School of Journalism, and no one should expect to earn all or even a part of his expenses during his first quarter of residence.

Admission.—On successful completion of 90 plus 10 credits of prescribed and elective work at the University of Washington, or an equivalent amount from another institution of accredited standing, students are granted upper division standing, which admits to the School of Journalism. (See College of Liberal Arts section, page 97.) Students not having upper division standing may be admitted, on recommendation of the dean, to courses in the School of Journalism if they (1) are proficient in English composition and typing, (2) have had sound training in history, economics, politics, and sociology, and (3) have had not less than a year's experience in newspaper work or other professional writing. Credit toward graduation is not granted for newspaper work except when such work is done under the direct supervision of an accredited instructor.

Fees.—In certain courses in journalism laboratory fees are charged.
These go toward purchase of student materials, community typewriters of
which the school has fifteen—and towards subscriptions for newspapers and
periodicals, of which the school takes sixty or seventy annually, in addition
to a large number of weeklies that come to the dean's desk on exchange. The
number of courses requiring fees varies from year to year. In 1928-29
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, re­
gardless of the number of courses taken.

For information on general University fees, see page 60.

**Pre-Journalism Majors.**—The dean of the School of Journalism is the
adviser for all students in journalism from the beginning of the freshman
year. Registration of pre-journalism majors is held in the dean's office.
To him should be taken questions about coordinating courses in other schools
and any matters touching scholastic problems.

**Journalism Curriculum.**—From the beginning of the freshman year a
specific curriculum of studies (see page 160) is required of students expect­ing
ning to major in journalism. Courses in news writing, the profession of
journalism, current events, and the community newspaper are open to lower
division students. Entrance to the School of Journalism is granted on
ability shown by the individual in these courses to do newspaper work suc­
cessfully. 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 Writ­
ing), 101 (Reporting), 120 (Copy Reading), and 150 (Editorial Writing)—
a total of twenty hours.

**Shorthand and Typewriting.**—All written work in the School of Jour­
nalism 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 Uni­
versity. Tests in each are given quarterly. Those passing the tests suc­
cessfully 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 main­
taining this grade may be dropped from the school. A written examination
covering the required courses in journalism is required of seniors not less
than two weeks before the end of the quarter preceding graduation. A
student holding a bachelor's degree from a recognized college or university
may obtain a degree in journalism by fulfilling the additional requirements.
Usually the time demanded is not less than four quarters.

**Graduate Study.**—Advanced courses in journalism, history, economics,
political science, sociology, and English are offered students wishing to take
graduate study in preparation for newspaper work or teaching journalism.
A wide demand exists in high schools, colleges, and universities for instruc­tors adequately trained to teach journalism. The University library con­
tains 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
Journalism Morgue and Churchill Memorial Library are particularly adapted
for graduate research 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**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch. 112, 113, Freshman Dr.</td>
<td>4</td>
</tr>
<tr>
<td>Econ. 102, Money and Banking</td>
<td>5</td>
</tr>
<tr>
<td>50. Graph. &amp; Tab. Anal. of Bus.</td>
<td>5</td>
</tr>
<tr>
<td>61. Soc. &amp; Econ. Stand's of Liv.</td>
<td>5</td>
</tr>
<tr>
<td>62. Acc. Accounting</td>
<td>10</td>
</tr>
<tr>
<td>106. &quot;Econ. of Markets&quot;</td>
<td>5</td>
</tr>
<tr>
<td>18, 19. &quot;Shorthand I and II&quot;</td>
<td>0</td>
</tr>
<tr>
<td>English 67, 68, 69. &quot;Am. Writers&quot;</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>10</td>
</tr>
<tr>
<td>Greek 11. &quot;Greek Civ.&quot;</td>
<td>5</td>
</tr>
<tr>
<td>Hist. 67-68-69. &quot;Hist. of the U.S.&quot;</td>
<td>9</td>
</tr>
<tr>
<td>71-72-73. &quot;Ancient Hist.&quot;</td>
<td>9</td>
</tr>
<tr>
<td>Jour. 61. &quot;News Writing&quot;</td>
<td>5</td>
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</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch. 101-102-103. Hist. of Architecture</td>
<td>6</td>
</tr>
<tr>
<td>Ast. 1. Gen. Astronomy</td>
<td>5</td>
</tr>
<tr>
<td>Dram. Art 101-102-103. Play Acting</td>
<td>9</td>
</tr>
<tr>
<td>111, 112, 113. &quot;Play Writing&quot;</td>
<td>15</td>
</tr>
<tr>
<td>Econ. 54, 55, 60. &quot;Bus. Law&quot;</td>
<td>9</td>
</tr>
<tr>
<td>104. Econ. of Transportation</td>
<td>5</td>
</tr>
<tr>
<td>105. Bus. Organization</td>
<td>5</td>
</tr>
<tr>
<td>138. Sales Management</td>
<td>5</td>
</tr>
<tr>
<td>English 70, 71. &quot;Shakespeare&quot;</td>
<td>6</td>
</tr>
<tr>
<td>98. &quot;The Bible as Literature&quot;</td>
<td>2</td>
</tr>
<tr>
<td>104, 105, 106. Contemporary Lit.</td>
<td>9</td>
</tr>
<tr>
<td>137. &quot;Pros of the Victorian Period.&quot;</td>
<td>8</td>
</tr>
</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>History 130. Europe 1814-1870</td>
<td>5</td>
</tr>
<tr>
<td>151. &quot;Europe Since 1870&quot;</td>
<td>5</td>
</tr>
<tr>
<td>147. Civil War Period</td>
<td>9</td>
</tr>
<tr>
<td>148. Reconstruction Period</td>
<td>3</td>
</tr>
<tr>
<td>149. National Development</td>
<td>5</td>
</tr>
<tr>
<td>Journalism 90, 91, 92. &quot;Current Events&quot;</td>
<td>1</td>
</tr>
<tr>
<td>101. &quot;Reporting&quot;</td>
<td>5</td>
</tr>
<tr>
<td>102. &quot;Specialized Reporting&quot;</td>
<td>5</td>
</tr>
<tr>
<td>104. &quot;Newspaper Admin.&quot;</td>
<td>5</td>
</tr>
<tr>
<td>115. &quot;Elements of Publishing&quot;</td>
<td>3</td>
</tr>
<tr>
<td>120. &quot;Copy Reading&quot;</td>
<td>5</td>
</tr>
<tr>
<td>130. &quot;Fundamentals of Advertising&quot;</td>
<td>5</td>
</tr>
</tbody>
</table>

*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.

*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.

*Philosophy 1 or Philosophy 3 may be substituted for this requirement.

*English 72 may be substituted for either English 70 or English 71.
### Curricula

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Advertising</td>
<td>5</td>
</tr>
<tr>
<td>Adver. Typography</td>
<td>5</td>
</tr>
<tr>
<td>Publicity</td>
<td>2</td>
</tr>
<tr>
<td>Comparative Journalism</td>
<td>8</td>
</tr>
<tr>
<td>History of Journalism</td>
<td>5</td>
</tr>
<tr>
<td>Business Office</td>
<td>5</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>10</td>
</tr>
<tr>
<td>Oral Studies</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>9</td>
</tr>
<tr>
<td>Phil. 101-102-103, Hist. of Phil.</td>
<td>9</td>
</tr>
<tr>
<td>Pol. Sci. 111, Hist. of Pol. Theory</td>
<td>3</td>
</tr>
<tr>
<td>American Pol. Theory</td>
<td>8</td>
</tr>
<tr>
<td>Econ. 121, Corporation Finance</td>
<td>5</td>
</tr>
<tr>
<td>Labor Problems</td>
<td>5</td>
</tr>
<tr>
<td>European Labor Problems</td>
<td>5</td>
</tr>
<tr>
<td>Hist. of Econ. Thought</td>
<td>5</td>
</tr>
<tr>
<td>Marketing and Advertising</td>
<td>5</td>
</tr>
<tr>
<td>Educ. 101, Intro. Study of Educ.</td>
<td>5</td>
</tr>
<tr>
<td>Hist. of Educ.</td>
<td>5</td>
</tr>
<tr>
<td>American, Educ.</td>
<td>5</td>
</tr>
<tr>
<td>100K Teachers' Course, News Writing</td>
<td>2</td>
</tr>
<tr>
<td>English 161, 162, 163, Hist. Amer. Cult.</td>
<td>9</td>
</tr>
<tr>
<td>164, 165, 166, Amer. Lit. Since 1870</td>
<td>9</td>
</tr>
<tr>
<td>174, 175, 19th Cent. English Poetry</td>
<td>8</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>10</td>
</tr>
<tr>
<td>Hist. 155, The Pacific Rim</td>
<td>8</td>
</tr>
</tbody>
</table>

### Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contemporary Public Thought</td>
<td>3</td>
</tr>
<tr>
<td>For. Relations of the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>American Foreign Affairs</td>
<td>8</td>
</tr>
<tr>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 100, Mental Tests</td>
<td>8</td>
</tr>
<tr>
<td>Hist of Psychology</td>
<td>2</td>
</tr>
<tr>
<td>Romanic Lang, 118, 119, 120, Survey of</td>
<td>3</td>
</tr>
<tr>
<td>Religion</td>
<td>9</td>
</tr>
<tr>
<td>Science</td>
<td>9</td>
</tr>
<tr>
<td>Social Statistics</td>
<td>5</td>
</tr>
<tr>
<td>Northwest Hist</td>
<td>6</td>
</tr>
<tr>
<td>Law of the Press</td>
<td>3</td>
</tr>
<tr>
<td>Trade Journalism</td>
<td>5</td>
</tr>
<tr>
<td>Magazine and Feature Writing</td>
<td>6</td>
</tr>
<tr>
<td>Short Story Writing</td>
<td>6</td>
</tr>
<tr>
<td>Pol. Sci. 152, Amer. Pol. Farib.</td>
<td>5</td>
</tr>
<tr>
<td>Municipal Government</td>
<td>5</td>
</tr>
<tr>
<td>Municipal Administration</td>
<td>5</td>
</tr>
<tr>
<td>State Government</td>
<td>5</td>
</tr>
<tr>
<td>Social Legislation</td>
<td>3</td>
</tr>
<tr>
<td>Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Advertising

Students expecting to make advertising a profession should elect the following courses from those scheduled above: Architecture 112, 113 (Freehand Drawing); Economics 105 (Economics of Markets); Economics 175 (Business Statistics); Economics 145 (Trade of the Americas); Journalism 130 (Fundamentals of Advertising); Journalism 131 (Display Advertising); Journalism 133 (Advertising Typography); Journalism 160 (Trade Journalism). All these will be found of particular value in advertising work.

### Short Story Writing

Students interested particularly in short story writing should select as many as possible of the following courses, the first four in the order named: Journalism 51 (News Writing), Journalism 101 (Reporting), Journalism 170, 171, 172 (Magazine Writing), Journalism 173, 174, 175 (Short Story Writing), Dramatic Art 101, 102, 103 (Play Acting), Dramatic Art 111, 112, 113 (Play Writing), Psychology 1 (General Psychology), Psychology 118 (Folk Psychology), Psychology 126 (Abnormal Psychology), Psychology 131 (Child Psychology).

### Courses of Study

For description of courses offered by the School of Journalism, see Departments of Instruction section.
COLLEGE OF ENGINEERING

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . President of the University
Thomson, David, B.A. (Toronto) ........................................ Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ................................ Assistant Dean of Faculties

THE FACULTY, 1928-1929

PROFESSORS

Magnusson, Carl Edward, Ph.D. (Wisconsin), M.S., E.E. (Minnesota) ....... Professor of Electrical Engineering; Director of Engineering Experiment Station; Dean of the College of Engineering.
Benson, Henry Kreitzer, Ph.D. (Columbia) ................... Professor of Chemical Engineering
Eastwood, Everett Owen, C.E., M.A. (Virginia), B.S. (Massachusetts Institute of Technology) ......................... Professor of Mechanical Engineering
Harris, Charles William, C.E. (Cornell) .............. Professor of Mechanical Engineering
Kirsten, Frederick Kurt, E.E. (Washington) ....... Professor of Aeronautical Engineering
Loew, Edgar Allan, E.E. (Wisconsin) .................. Professor of Electrical Engineering
More, Charles Church, M.S., C.E. (Lafayette), M.C.E. (Cornell) ....... Professor of Structural Engineering.
Wilson, George Samuel, B.S. (Nebraska) ................. Professor of Mechanical Engineering
Winslow, Arthur Melvin, Ph.B. (Brown), B.S. (Massachusetts Institute of Technology) ......................... Professor of Mechanical Engineering

ASSOCIATE PROFESSORS

May, Charles Colburnson, B.S. (C.E.) (Washington) .......... Associate Professor of Civil Engineering and Architecture.
Wilcox, Elgin Rosee, Met.E. (Washington) ........ Associate Professor of Civil Engineering

ASSISTANT PROFESSORS

Beuschlein, Warren L., B.S. (C.E.) (California Institute of Technology), M.S. (Ch.E.) (Washington) ....................... Assistant Professor of Chemical Engineering
Collins, Ira Leonard, C.E. (Washington) ................ Assistant Professor of Civil Engineering
Edmonds, Robert H.G., B.S. (Whitman), M.S. (M.E.) (Washington) ........ Assistant Professor of Mechanical Engineering
Farquharson, Frederick B., M.E. (Washington) . Assistant Professor of General Engineering
Hawthorn, George E., C.E. (Washington) ........ Assistant Professor of General Engineering
Hamilton, James Baker, C.E. (Washington) .... Assistant Professor of Civil Engineering
Hoard, George Listle, M.S. (E.E.) (Washington) ........ Assistant Professor of Electrical Engineering
Mclntyre, Harry J., B.S. (M.E.), M.B.A. (Washington) .......... Assistant Professor of Mechanical Engineering
McMillan, Byron Towne, B.S. (Oregon Agricultural College), M.S. (Washington) ........ Assistant Professor of Mechanical Engineering
Miller, Alfred Lawrence, C.E. (Washington) ........ Assistant Professor of Civil Engineering
Schuller, Gilbert S., B.S. (M.E.) (Illinois), M.B.A. (Washington) ........ Assistant Professor of Shop Engineering.
Shuck, Gordon Russell, E.E. (Minnesota) ........ Assistant Professor of Electrical Engineering
Smith, George S., E.E. (Washington) ........ Assistant Professor of Electrical Engineering
Van Horn, Robert B., C.E. (Washington) ........ Assistant Professor of Civil Engineering
Warner, Frank M., B.S. (M.E.) (Wisconsin) ........ Assistant Professor of General Engineering

INSTRUCTORS

Applegate, L. M., B.S. (E.E.) (Washington) ........... Instructor in Electrical Engineering
Bergstrom, Theodore, B.S. (E.E.) (Washington) .......... Instructor in Electrical Engineering
Chittenden, Hiram M., B.S. (C.E.) (Washington) ........... Instructor in General Engineering
Eastman, Austin V., B.S. (E.E.) (Washington) ........ Instructor in Electrical Engineering
Lindblom, Roy E., B.S. (E.E.) (Washington) ........ Instructor in Electrical Engineering
Rathbun, John M., B.S. (E.E.) (Washington) ............ Instructor in General Engineering
Rhodes, Fred H., Jr., B.S. (C.E.) (Washington) ........ Instructor in General Engineering
Smith, Frederic C., B.S. (C.E.) (Washington) .......... Instructor in General Engineering
Weir, John, B.S. (E.E.) (Washington) .................. Instructor in General Engineering
Moritz, Harold K., B.S. (Massachusetts Institute of Technology) ....... Instructor in General Engineering
Sullivan, Clayton L. .................................................. Assistant, Engineering Shops

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General Information

COOPERATING FACULTY

Anderson, Samuel Herbert, Ph.D. (Illinois) ............... Associate Professor of Physics
Ayer, Leslie James, B.S. (Upper Iowa), J.D. (Chicago) ............... Professor of Law
Brakel, Henry Louis, Ph.D. (Cornell) ............... Associate Professor of Engineering Physics
Carpenter, Allen F., Ph.D. (Chicago) ............... Professor of Mathematics
Daniels, Joseph, S.B. (Massachusetts Institute of Technology), M.S. (Lehigh) ............... Professor of Mining Engineering and Metallurgy.
Hall, Amy Violet, A.B., A.M. (Washington) ............... Associate in English
Nelkirk, Lewis Irving, Ph.D. (Pennsylvania) ............... Assistant Professor of Mathematics
Thompson, Thomas G., Ph.D. (Washington) ............... Associate Professor of Chemistry
Weinzirl, John, Ph.D. (Wisconsin), Dr.P.H. (Harvard) ............... Professor of Bacteriology

GENERAL INFORMATION

The purpose of the College of Engineering is to give thorough training in engineering fundamentals, so essential to success in all branches of the engineering profession, and to provide instruction for specialization in the main fields of engineering. For administrative purposes the college is divided into seven departments: aeronautical, chemical, civil, electrical, mechanical and general engineering and engineering shops. The College of Engineering offers six four-year curricula (see pp. 166-170) leading to the degree of bachelor of science in the respective branches of chemical, civil, electrical and mechanical engineering but all are required to take the fundamental subjects on which engineering is based. The curricula consist largely of required courses, but a sufficient number of electives are provided in the junior and senior years to give each student the training that will best serve his case.

The location of the University is particularly favorable for engineering students. Seattle and the Puget Sound region offer exceptional opportunities for the student engineer to observe the practical application of engineering principles in all lines. The many large and readily accessible hydro-electric power plants, electric transmission and distribution systems and the development of the state's vast water power resources, offer unexcelled opportunities for the study of power engineering. Airplane factories, iron and steel works, wood-pulp and lumber mills, nitrogen fixation plants, ship building yards, docks, waterways, steam and electric railways, bridges, buildings, and a great variety of industrial plants, give students in all fields abundant opportunities to study and observe the application of fundamental engineering principles.

GENERAL ENGINEERING

The freshman work is identical for all the curricula in the Colleges of Engineering and Mines and is given by the department of general engineering. The aim is to give the student an early contact with engineering situations in which he can make application of the fundamentals of mathematics and physics, and to assist him in the formation of good habits of work and study so that he may obtain maximum return on his investment in an engineering education. To assist in realizing these ideas individual work is insisted upon in all courses and the student is given much personal coaching by his instructors. As a part of the courses the various fields of engineering are discussed enabling the student to make a more intelligent choice of his particular line of work. The choice is made at the beginning of his sophomore year. Engineering problems (G.E. 11, 12, 13) are planned to obtain these results and comprise a distinctive feature of the college.
Another feature of the freshman year is the study given the personal traits and aptitudes of the individual student. This phase of the work is done by the freshman adviser who is also in charge of all the general engineering courses. His advice and assistance on their personal problems is available to all students in the department.

AERONAUTICAL ENGINEERING

The courses in aeronautical engineering are arranged so as to give the student a thorough knowledge of the fundamentals of aerodynamics and an introduction into practical design of heavier and lighter-than-air flying machines. A field trip to the local airplane factory, one of the largest in the country, and occasional lectures by experienced designers and active aeronautical engineers serve to familiarize the student with the latest developments in this branch of engineering.

A laboratory equipped with two wind tunnels for testing airfoils, airplane models and propellers serves to familiarize the student with the phenomena of air flow in channels and in the vicinity of surfaces of various contour and with the methods of quantitative determination of force reactions upon aeronautical structures.

CHEMICAL ENGINEERING

Chemical engineering is given under the direction of the department of chemistry and chemical engineering. It deals with the unit process of the manufacturing industry. Training in this subject includes not only general courses in engineering but also specific training in analytical, organic and physical chemistry. The application of chemical technique to manufacturing processes is made in specially developed courses in industrial chemistry and chemical engineering.

Chemical engineers are in charge of many important industries such as the manufacture of chemicals, petroleum products, the production of materials used in construction, fuels, paints, explosives and a great variety of organic products. The design of apparatus, chemical research, and the development of control methods play an important part in the career of the chemical engineer.

CIVIL ENGINEERING

Courses leading to the following branches of civil engineering are given:

Surveying, including the making of city and geological surveys, and surveys for engineering constructions.

Highway and railroad engineering, which deals with the location, construction and maintenance of city streets, highways and railways.

Hydraulic engineering, which deals with the laws governing the flow of water, and their applications to water supply of communities, to water power development, design of hydraulic machinery, river and harbor improvement, and the reclamation of land by drainage and irrigation.

Sanitary engineering, which deals with problems relating to the protection and preservation of the health of communities, including the design of water supply and sewerage systems, and sewage disposal works.

Structural engineering, which deals with the details of the design and construction of steel, concrete and timber structures, such as bridges, buildings, dams, retaining walls, and their foundations.

Material testing, which deals with the inspection and proper use of the materials of construction including timber, steel and concrete.
ELECTRICAL ENGINEERING

Mastery of the basic laws of direct currents, alternating currents and electric transients is essential to progress in any branch of electrical engineering. The foundation for specialization in any field is laid in the required courses of the electrical engineering curriculum. Elective courses are offered in electrical communication, telephones, telegraphs and radio, in illumination, electric machine design, electric railways, central stations and power transmission. The required and elective courses supplemented by seminars, thesis and research give ample opportunities for every student to follow his bent and secure training best suited to his talents. Special attention is given to the economic generation, transmission and distribution of hydro-electric power and to electric transients.

MECHANICAL ENGINEERING

The department of mechanical engineering aims to prepare the student to enter the various branches of mechanical engineering work including: design, operation and superintendence of machinery, fuel economy and power plants; structural materials; heating and ventilation; gas engineering; refrigeration; automobiles; commercial engineering; naval architecture and marine engineering.

ENGINEERING LABORATORIES

For description of laboratories, see page 40.

Requirements for Admission

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 52, 59 and 60.

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 53.

Preparation in Algebra for Engineering

All students entering the College of Engineering will be tested in high school algebra by class work and by an examination given shortly after the beginning of the first quarter. It is essential that students in the engineering courses shall possess a good working knowledge of algebra at the beginning of their course, and it is the purpose of the test to secure this by requiring a review of the subject shortly before entering the University. Students failing in the test are not permitted to continue with regular freshman engineering mathematics, but are required to take a review of preparatory algebra (Math. 1, College of Science) during the first quarter.

In performing the fundamental operations of algebra, such as multiplication and division, the use of the parentheses, the solving of numerical and literal equations of the first and second degrees, the simplification of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should have distinct notions of the meaning and reasons for all that he does, and be able to state them clearly in his own language. He should be able to perform all these operations, even though somewhat complex, with rapidity, accuracy, and neatness. In his preparatory studies the student is advised to solve a great many practical problems and to describe fully the reason for the steps taken.
The College of Engineering offers four-year curricula in each of the departments of chemical, civil, electrical and mechanical engineering leading to the degree of bachelor of science in the respective branches of engineering, as B.S. in civil engineering. A more general training leading to the degree of bachelor of science (B.S.) is scheduled under commercial engineering, and should be followed by a year of graduate work which, under the university regulations for advanced degrees, leads to the degree of master of science (M.S.).

Thesis.—The graduating thesis will consist of research or design in some branch of engineering, or review of some existing construction. The subject must be approved by the professor in charge of the department under which it is classified.

Degrees with Honors.—A degree with honors in engineering may be conferred upon any student of the College of Engineering who, upon recommendation of the engineering faculty, of the honors committee and by vote of the university faculty, may be declared worthy of unusual distinction.

Advanced Degrees.—The degrees of master of science in civil engineering (M.S. in C.E.), master of science in electrical engineering (M.S. in E.E.), master of science in mechanical engineering (M.S. in M.E.), and master of science in chemical engineering (M.S. in Ch.E.), respectively, will be conferred on graduates of this college, or other engineering colleges of recognized standing who complete a year (45 credit hours) of graduate work, including a satisfactory thesis, with the grade of A or B. The candidate must comply with regulations of the Graduate School and pass a formal examination open to all members of the faculty. Selection of work for this degree must, in each case, be approved by the head of the department in which the student majors and the Graduate Council.

The professional degrees, chemical engineer, (Ch.E.), civil engineer (C.E.), electrical engineer, (E.E.), and mechanical engineer, (M.E.), will be conferred in three years on graduates of this college holding the degree (B.S.) or (M.S.) in their respective lines, who give evidence of having been engaged continuously in acceptable engineering work and who present satisfactory theses.

### CURRICULA OF THE COLLEGE OF ENGINEERING

#### FOR THE FIRST YEAR IN ALL DEPARTMENTS

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>Gen. Chem. 1 or 21</td>
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<td>Gen. Chem. 2 or 22</td>
<td>5</td>
<td>Gen. Chem. 23</td>
<td>5</td>
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<td>1½</td>
<td>Mil. Sci. or Phys. Ed..</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed..</td>
<td>1½</td>
</tr>
</tbody>
</table>

#### IN CHEMICAL ENGINEERING

Leading to the degree of Bachelor of Science in Chemical Engineering

**First Year**

The same for all curricula. See above.
Curricula

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 97</td>
<td>Physics 98</td>
<td>Physics 99</td>
</tr>
<tr>
<td>Diff. Cal.—Math. 61</td>
<td>Int. Cal.—Math. 62</td>
<td>Qual. Chem. 101</td>
</tr>
<tr>
<td>Quant. Chem. 109</td>
<td>Quant. Chem. 110</td>
<td>Chem. Tech.—Chem. 52</td>
</tr>
<tr>
<td>Mech.—M.E. 81</td>
<td>Steam Eng.—M.E. 82</td>
<td>Steam Eng.—M.E. 83</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. 1½</td>
<td>Mil. Sci. or Phys. Ed. 1½</td>
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THIRD YEAR

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<th>Indus. Chem. 122</th>
<th>Indus. Chem. 123</th>
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<tbody>
<tr>
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<td>Org. Chem. 128</td>
<td>Org. Chem. 129</td>
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<tr>
<td>Dir. Cur.—E.E. 102</td>
<td>English 100</td>
<td>Alt. Cur.—Lab.—E.E. 122</td>
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<tr>
<td>Shop 56</td>
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FOURTH YEAR

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<tr>
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<tbody>
<tr>
<td>Chem. Engr. 171</td>
<td>Chem. Engr. 172</td>
<td>Electives</td>
</tr>
<tr>
<td>Mach. Des.—M.E. 111</td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

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

FIRST YEAR

The same for all curricula. See above.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 97</td>
<td>Physics 98</td>
<td>Physics 99</td>
</tr>
<tr>
<td>Calc.—Math. 61</td>
<td>Calc.—Math. 62</td>
<td>Econ.—B.A. 3</td>
</tr>
<tr>
<td>St. Eng.—M.E. 82</td>
<td>Mech.—C.E. 131</td>
<td>Mech.—C.E. 132</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed. 1½</td>
<td>Pol. Sci. 101</td>
<td>Mil. Sci. or Phys. Ed. 1½</td>
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THIRD YEAR

<table>
<thead>
<tr>
<th>Hydr.—C.E. 142</th>
<th>Hydr. Engr.—C.E. 142</th>
<th>Sanit. Engr.—C.E. 150</th>
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</thead>
<tbody>
<tr>
<td>St. An.—R.C.—C.E. 171</td>
<td>Str.An.—St.—C.E. 172</td>
<td>C.E. 173</td>
</tr>
<tr>
<td>Matl.—Conc.—C.E. 162</td>
<td>Matls. Tmbr. &amp; St. 1—</td>
<td>C.E. 173</td>
</tr>
<tr>
<td>Bos. Law—B.A. 54</td>
<td>C.E. 165</td>
<td>Dir. Cur.—E.E. 101—12—</td>
</tr>
<tr>
<td>Trans. Eng.—C.E. 120</td>
<td>English 100</td>
<td>Trans. Eng.—C.E. 121</td>
</tr>
<tr>
<td>Plant Des.—C.E. 100</td>
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FOURTH YEAR

<table>
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<tr>
<th>Str. Des.—R.C.—C.E. 175</th>
<th>Ind. Chem. 119</th>
<th>Engr. Rel.—C.E. 199</th>
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</thead>
<tbody>
<tr>
<td>Hedlan.—C.E. 167</td>
<td>English Elective</td>
<td>Geology 105</td>
</tr>
<tr>
<td>Trans. Engr.—C.E. 123</td>
<td>Elective</td>
<td>Electives</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

The following electives in the respective divisions of civil engineering are offered, subject to sufficient call:

Hydraulic and Sanitary Division

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Sewerage and Sewage Treatment—C.E. 158</td>
<td></td>
<td>Drainage, Waterways and Flood Control—C.E. 159</td>
</tr>
</tbody>
</table>

Credits 3 3 3
IN ELECTRICAL ENGINEERING

Leading to the degree of Bachelor of Science in Electrical Engineering

FIRST YEAR

The same for all curricula. See page 166.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>Physics 97</td>
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<td>Physics 98</td>
<td>5</td>
<td>Physics 99</td>
<td>5</td>
</tr>
<tr>
<td>Diff. Calc.—Math. 61</td>
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<td>Int. Calc.—Math. 62</td>
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<td>Int. Calc.—Math. 63</td>
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</tr>
<tr>
<td>Shop 53</td>
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<td>Shop 54</td>
<td>1</td>
<td>Shop 55</td>
<td>1</td>
</tr>
<tr>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
</tr>
<tr>
<td>Dir. Cur.—E.E. 100</td>
<td>4</td>
<td>Dir. Cur.—E.E. 111</td>
<td>4</td>
<td>Alt. Cur.—E.E. 161</td>
<td>6</td>
</tr>
<tr>
<td>Mechanics—C.E. 132</td>
<td>3</td>
<td>Hydraulics—C.E. 142</td>
<td>5</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td>Materials—M.E. 167</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THIRD YEAR

| Electives         | 4       | Electives        | 5       |                |         |

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

The following electives are offered in the several divisions of Electrical Engineering, and will be given as scheduled, if there is sufficient call:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Communication—E.E. 131</td>
</tr>
<tr>
<td>Telephone Transmission—E.E. 132</td>
</tr>
<tr>
<td>Illumination—E.E. 141</td>
</tr>
<tr>
<td>Design of Electrical Apparatus—E.E. 154</td>
</tr>
<tr>
<td>Electric Railways—E.E. 171</td>
</tr>
<tr>
<td>Central Stations—E.E. 173</td>
</tr>
<tr>
<td>Power Transmission—E.E. 175</td>
</tr>
<tr>
<td>Electric Public Utilities—E.E. 177</td>
</tr>
<tr>
<td>Research—E.E. 186, 182, 184</td>
</tr>
<tr>
<td>Radio—E.E. 181, 183</td>
</tr>
<tr>
<td>Thesis—E.E. 186, 188</td>
</tr>
<tr>
<td>Engineering Equations—E.E. 191</td>
</tr>
<tr>
<td>Seminars—E.E. 190, 192, 194</td>
</tr>
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</table>
IN MECHANICAL ENGINEERING

Leading to the degree of Bachelor of Science in Mechanical Engineering

FIRST YEAR

The same for all curricula. See page 166.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Cal.—Math. 61</td>
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<td>Calc.—Math. 62</td>
<td>3</td>
<td>Calc.—Math. 63</td>
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<td>Physics 97</td>
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<td>Physics 98</td>
<td>5</td>
<td>Physics 99</td>
<td>5</td>
</tr>
<tr>
<td>Mechanism—M.E. 81</td>
<td>3</td>
<td>Steam Lab.—M.E. 83</td>
<td>3</td>
<td>Gen. Econ.—B.A. 8</td>
<td>3</td>
</tr>
<tr>
<td>Shop 53</td>
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<td>Shop 54</td>
<td>1</td>
<td>Shop 55</td>
<td>1</td>
</tr>
<tr>
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<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
</tr>
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</table>

THIRD YEAR

Dir. Cur.—E.E. 101   | 4       | Alt. Cur.—E.E. 121  | 4       | Hydraulics—C.E. 142 | 5       |
Exp. Eng.—M.E. 151   | 3       | Exp. Eng.—M.E. 152  | 3       | Exp. Eng.—M.E. 153  | 3       |
Mechanics—C.E. 132    | 3       | Mach. Des.—M.E. 111 | 3       | Shop 107            | 1       |
Shop 105              | 1       | Shop 106             | 1       |                     |         |

FOURTH YEAR

Thermo. & Ref.—M.E.183| 5       | Heat. & Vent.—M.E.183| 5       | St. Turb.—M.E. 179  | 3       |
English 102           | 3       | Engr. Mat.—M.E. 167 | 3       | Thesis—M.E. 195     | 3       |
Electives             | 3       | Electives            | 3       | Electives            | 3       |

The following electives are offered in the several divisions of Mechanical Engineering, and will be given as scheduled, if there is sufficient call:

- Time Study and Job Analysis—M.E. 140
- Naval Architecture—M.E. 185, 186, 187
- Ship Design—M.E. 188 and 189
- Marine Engineering—M.E. 190
- Research—M.E. 191, 192, and 193
- Seminar—M.E. 194

Credits

<table>
<thead>
<tr>
<th>Time Study and Job Analysis—M.E. 140</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naval Architecture—M.E. 185, 186, 187</td>
<td>3 (each)</td>
</tr>
<tr>
<td>Ship Design—M.E. 188 and 189</td>
<td>2 (each)</td>
</tr>
<tr>
<td>Marine Engineering—M.E. 190</td>
<td>3</td>
</tr>
<tr>
<td>Research—M.E. 191, 192, and 193</td>
<td>5 (each)</td>
</tr>
<tr>
<td>Seminar—M.E. 194</td>
<td>2</td>
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IN NAVAL ARCHITECTURE AND MARINE ENGINEERING

Leading to the degree of Bachelor of Science in Naval Architecture and Marine Engineering

FIRST YEAR

The same for all curricula. See page 166.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
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<td>Physics 97</td>
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<td>Physics 98</td>
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<td>Physics 99</td>
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<tr>
<td>Mechanism—M.E. 81</td>
<td>3</td>
<td>Steam Lab.—M.E. 83</td>
<td>3</td>
<td>Gen. Econ.—B.A. 8</td>
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</tr>
<tr>
<td>Shop 53</td>
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<td>Shop 55</td>
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<tr>
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<td>Mil. Sci. or Phys. Ed.</td>
<td>1%</td>
<td>Mil. Sci. or Phys. Ed.</td>
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College of Engineering

THIRD YEAR

<table>
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<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dir. Cur.—E.E. 101</td>
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<td>Alt. Cur.—E.E. 121</td>
<td>4</td>
<td>Hydraulics—C.E. 142</td>
<td>5</td>
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<tr>
<td>Exp. Engr.—M.E. 151</td>
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<td>Exp. Engr.—M.E. 152</td>
<td>3</td>
<td>Nav. Arch.—M.E. 167</td>
<td>3</td>
</tr>
<tr>
<td>Mechanics—C.E. 132</td>
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<td>Mach. Des.—M.E. 111</td>
<td>3</td>
<td>Shop 107</td>
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<tr>
<td>Shop 105</td>
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<td>Shop 106</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FOURTH YEAR

| Thermo. & Ref.—M.E. 183 | 5       | Heat. & Vent.—M.E. 182 | 3       | St. Turb.—M.E. 179 | 3       |
| Ship Des.—M.E. 188 | 2       | Ship Des.—M.E. 189 | 2       | Mach. Des.—M.E. 115 | 3       |
| English 100 | 3       | English 101, 102 | 3       | English 103, 167 | 3       |
| Electives | 3       | Electives | 5       | Electives | 3       |

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.

| Credits |
|-------------------|---------------|
| Business Administration 3, 60, 62, 63, 54, 55, 106 | 29 |
| Chemistry 1-2, or 21-22, and 23 | 15 |
| Civil Engineering 131, 132, 142 | 13 |
| Electrical Engineering 101, 102 and 121, 122 or 101, 162 | 12 |
| Engineering Shops 115 | 8 |
| English 100, 102 | 6 |
| General Engineering 1, 2, 11, 12, 13, 21 | 15 |
| Mathematics 51, 52, 53, 61, 62, 63 | 21 |
| Mechanical Engineering 81, 82, 83, 111, 112 | 18 |
| Military Science or Physical Education | 10 |
| Physics 97, 98, 99 | 16 |
| Political Science 101 | 2 |
| Technical Electives (department in which student is registered) | 21 |
| General Electives | 20 |
| Total | 198 |

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 121. Aeronautical Design
102. Aerodynamics 122. Aeronautical Design
111. Aerial Propulsion 141. Airships
112. Aerial Propulsion 161. Aerial Transportation

COURSES OF STUDY

For description of courses offered by the College of Engineering, see Departments of Instruction section.
The Faculty

ENGINEERING EXPERIMENT STATION

THE STAFF

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) ............................................ President of the University
Thomson, David, B.A. (Toronto) ........................................................................ Dean of Faculties
Magnusson, Carl Edward, Ph.D. (Wisconsin), M.S., E.E. (Minnesota) ........ Director
Roberts, Milnor, A.B. (Stanford) ............................................................... Mining and Metallurgy
Kirsten, Frederick Kurt, B.S., E.E. (Washington) ...................................... Aeronautical Engineering
Benson, Henry Kreitzer, Ph.D. (Columbia) ................................................ Chemical Engineering
Harris, Charles William, B.S. (Washington), C.E. (Cornell) ....................... Civil Engineering
Loew, Edgar Allan, B.S., E.E. (Wisconsin) .................................................... Electrical Engineering
Wilson, George Samuel, B.S. (Nebraska) .................................................... Mechanical Engineering
Osborn, Frederick Arthur, Ph.D. (Michigan) ........................................... Physics Standards and Tests

For description of the work of the Experiment Station, see page 47.
COLLEGE OF FINE ARTS

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . President of the University
Thomson, David, B.A. (Toronto) ...................................................... Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ...................................... Assistant Dean of Faculties

THE FACULTY, 1928-1929

PROFESSORS

Glen, Irving Mackey, A.M. (Oregon) .............................................. Professor of Music; Dean of the College of Fine Arts
Rosen, Moritz, Graduate (Warsaw Conservatory) ............................... Professor of Music
Thomas, Harlan, B.S. (Colorado Agricultural College) ....................... Professor of Architecture
Venino, Albert Franz (New York College, Stuttgart Conservatory, Leschetzky) . Professor of Music
Wood, Carl Paige, A.M. (Harvard) .................................................. Professor of Music

ASSOCIATE PROFESSORS

Isancs, Walter, B.S. (F.A.) (James Millikin) .................................. Associate Professor of Fine Arts
May, Charles Calbertson, B.S. (C.B.S.) (Washington) ......................... Associate Professor of Architecture and Civil Engineering
Newenham, Frances Dickey, A.M. (Columbia) .................................. Associate Professor of Music

ASSISTANT PROFESSORS

Benson, Edna G., A.B. (Iowa) A.M. (Columbia) .................................. Assistant Professor of Design
* Foote, Hope, A.M. (Columbia) ....................................................... Assistant Professor of Interior Design
Gowen, Lancelot, A.M. (Arch.) (California) ............................... Assistant Professor of Architecture
Herman, Arthur, A.B. (Arch.) (Carnegie Institute of Technology) .... Assistant Professor of Architecture
Hill, Raymond, Graduate (Rhode Island School of Design) ................. Assistant Professor of Fine Arts
Hughes, Glenn, M.A. (Washington) .................................................. Assistant Professor of English and Dramatic Art
Lawrence, Charles Wilson, B.M. (Oberlin) ........................................ Assistant Professor of Music
Lovejoy, Albert, B.L.I. (Emerson College of Oratory) ....................... Assistant Professor of Dramatic Art
McKay, George F., B.M. (Rochester) ................................................. Assistant Professor of Music
Patterson, Ambrose ................................................................. Assistant Professor of Fine Arts
Pratt, Dudley, A.B. (Yale) ............................................................ Assistant Professor of Fine Arts
Rhodes, Helen, B.A. (Washington) (Columbia) ................................. Assistant Professor of Design
Van Ogle, Louise (Leipzig; Godowsky; Bauer; Lhevlane) ................. Assistant Professor of Music

INSTRUCTORS

Adams, Albert Porter ............................................................ Instructor in Music
Allen, Ruth Frances, B.M. (Washington) ........................................ Instructor in Music
Buck, Helen Marian (California) ....................................................... Instructor in Design
Kirchner, George C. (Leipzig) ........................................................ Instructor in Music
Nelson, Irene M., B.Mus. (Washington) .......................................... Instructor in Music
Padelford, Morgan, M.A. (Washington) ........................................... Instructor in Fine Arts
Pearce, Richard J., M.A. (Harvard) ................................................ Instructor in Architecture
Schumacher, Elizabeth, B.M. (Washington) ..................................... Instructor in Music

ASSOCIATES

Alden, Charles, B.S. (Mass. Inst. of Tech.) .................................... Lecturer in Architecture
Bagardus, Alice, B.L. (Mills) .......................................................... Associate in Music
Conway, John Ashby, B.A. (Carnegie Institute of Technology) .... Associate in Dramatic Art
Crawford, Margaret, A.M. (Columbia) ........................................... Associate in Dramatic Art
Fuller, Eugenia ................................................................. Associate in Architecture
Hanson, Bert B., B.A. (South Dakota) ............................................. Associate in Dramatic Art
Lovejoy, Cecyl, B., M.A. (Washington) ........................................... Associate in Dramatic Art
Lynch, Clara Belle ............................................................... Associate in Music
Maben, Edna, Graduate (Conservatory of Music, Carleton College) .... Associate in Music
Pennington, Ruth ................................................................. Associate in Design
Venino, Luella (Leschetzky) .......................................................... Associate in Music
Wood, Florence, B.F.A. (Washington) ............................................ Associate in Design
Worman, Eugene (Pratt Institute) ............................................. Associate in Fine Arts

* Absent on leave 1928-29.

(172)
ASSISTANTS

Bamford, Ruth, B.M. (Washington) ............................................ Assistant in Music
Blanchard, Fred, B.A. (Washington) ........................................ Assistant in Dramatic Art
Burns, Nina, B.M. (Washington) ............................................ Assistant in Music
Canfield, Iris Fern, B.Mus. (Washington) ................................ Assistant in Music
Oliver, Louise Benton, B.Mus. (Washington) ............................. Assistant in Music

COOPERATING FACULTY

Cory, Herbert E., Ph.D. (Harvard) ......................................... Professor of Liberal Arts
Eastwood, Everett Owen, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology) ................................................. Professor of Mechanical Engineering
Hall, David Connolly, M.D. (Rush Medical College) .................. University Health Officer;
Professor of Hygiene
More, Charles Church, M.S. (Lafayette), M.C.E. (Cornell) ............ Professor of Structural Engineering
Sidler, Thomas E., Ph.D. (Chicago) .......................................... Professor of Latin and Greek
Anderson, Samuel Herbert, Ph.D. (Illinois) ................................ Associate Professor of Physics
Denimore, Harvey Bruce, B.A. (Oxford) .................................. Associate Professor of Greek
Geglio, Charles, Ph.D. (Wisconsin) ......................................... Associate Professor of Romance Languages
Gross, Mary Emma, A.M. (Columbia) ....................................... Associate Professor of Physical Education for Women
Eckelman, Ernest Otto, Ph.D. (Heidelberg) ................................. Assistant Professor of Germanic Languages

GENERAL INFORMATION

This college comprises the departments of architecture, music, painting, sculpture, design and dramatic art. The department of architecture offers a curriculum of five 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 design, public school art, or painting. The department of dramatic art offers major courses in the study of the drama and dramatic interpretation, leading to the degrees of bachelor of arts in dramatic art and bachelor of fine arts with a major in dramatic art.

Normal Diploma.—In addition to their bachelor degree graduates in music and in public school art (P.S.D.) 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 these respective departments may institute.

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

SCHOLARSHIPS

Scholarships in Piano Study.—Mr. A. F. Venino offers an annual scholarship to the student showing the greatest proficiency and promise in piano playing at the end of his junior year. The benefits of this scholarship will apply to the work of the student during his senior year.

Beecher Kiefer Memorial Scholarship is awarded annually to the most talented man student of violin. This award is subject to competition before a committee from the department of music. Applications should be made before June 1.
Mu Phi Epsilon Scholarship.—Mu Phi Epsilon, national honorary musical sorority, offers to a woman student a scholarship of one lesson a week for a school year, in either voice, piano, violoncello or organ.

Prior to the beginning of the fall term, a private tryout will be held before the committee of judges, which will be composed of three Mu Phi Epsilon members and two members of the faculty of the music department. The award will be made according to talent, personality, financial situation, promise, and general scholastic standing.

It is a requirement: (1) That the scholarship be awarded a University of Washington student of at least one year's attendance in the music department of the University.

(2) That the scholarship award, if won by (a) a senior, shall be paid back three years after the time of the award. (b) A junior, shall be paid back four years after the time of the award. (c) A sophomore, shall be paid back five years after the time of the award, in order to perpetuate and establish a permanent scholarship fund.

(3) That Mu Phi Epsilon members shall not be eligible for the competition.

The winner may select a teacher from the music faculty.

Applications must be sent to the Dean of the College of Fine Arts before September 15 of each year.

The Ladies' Musical Club of Seattle, for the years 1927-28 and 1928-29, will give an award of $100 to the senior girl in the College of Fine Arts, department of music, whose work has been the most productive and who has been the greatest inspiration in the advancement of music during her four years at college.

PRIZES AND COMPETITIONS

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

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

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

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 52, 59 and 60.

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 53.

SPECIAL REQUIREMENTS FOR DEPARTMENT OF ARCHITECTURE

All students contemplating the study of architecture should confer with the head of the department as to their special qualifications and reasons for entering the professional study of architecture. A student should have credits in plane geometry, algebra through quadratics, trigonometry, physics, and at least two years of foreign language. Forty hours of foreign lan-
guage 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.

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 an eight 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 225 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, 107, Grade II; and Arch. 154, 155, 156, 157, Grade III; however, a student may in some cases advance more rapidly and satisfy by perfection of work the re-
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, 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 for a four-year course and 225 credits for the five-year course.

It is advisable that students intending to enter the course in architecture present credits for preparatory work in trigonometry and freehand drawing.

SPECIAL REQUIREMENTS FOR DEPARTMENT OF MUSIC

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.

The department of music offers examinations in sight singing, ear training, and elementary harmony for students who wish to attempt them, with a view of being excused from these required courses. These examinations will be held by appointment and applications must be filed with the Registrar in advance. Students who successfully pass the examinations will be expected to register for advanced courses in the same subjects.

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. Language courses given in English translation will not be counted toward this requirement. 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.

CURRICULA

The following curricula present the requirements for the several degrees, arranged in suitable sequence. However, many of the five-hour courses are offered in two or more quarters, so that other sequences may be acceptable, and even necessary, provided that prerequisites are complied with and conflicts avoided.

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

**First Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 0 Sight Singing</td>
<td>5</td>
<td>Music 13 Appre.</td>
<td>5</td>
<td>Music 6 History</td>
<td>5</td>
</tr>
<tr>
<td>18 Applied</td>
<td>5</td>
<td>19 Applied</td>
<td>3</td>
<td>20 Applied</td>
<td>8</td>
</tr>
<tr>
<td>L.A. 11 or Elect.</td>
<td>5</td>
<td>English 2</td>
<td>3</td>
<td>English 3</td>
<td>8</td>
</tr>
<tr>
<td>English 1</td>
<td>3</td>
<td>For. Lang.</td>
<td>5</td>
<td>For. Lang.</td>
<td>5</td>
</tr>
<tr>
<td>Phys. Ed. or Mill. Sc.</td>
<td>1 1/2</td>
<td>Phys. Ed. or Mill. Sc.</td>
<td>1 1/2</td>
<td>Phys. Ed. or Mill. Sc.</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 10 Cho. or Elect.</td>
<td>1</td>
<td>*Music 11 Cho. or Elect.</td>
<td>1</td>
<td>*Music 12 Cho. or Elect.</td>
<td>1</td>
</tr>
<tr>
<td>16 Ear Training</td>
<td>5</td>
<td>61 Harmony</td>
<td>5</td>
<td>63 Harmony</td>
<td>5</td>
</tr>
<tr>
<td>68 Applied</td>
<td>3</td>
<td>68 Applied</td>
<td>3</td>
<td>70 Applied</td>
<td>8</td>
</tr>
<tr>
<td>Ec., Pol. Sc. or Soc.</td>
<td>6</td>
<td>For. Lang.</td>
<td>5</td>
<td>For. Lang.</td>
<td>5</td>
</tr>
<tr>
<td>Phys. Ed. or Mill. Sc.</td>
<td>1 1/2</td>
<td>Phys. Ed. or Mill. Sc.</td>
<td>1 1/2</td>
<td>Phys. Ed. or Mill. Sc.</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>

*Only those who have successfully completed the work in Music 11 will be eligible for registration in Music 12.*
### Curricula

#### THIRD YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 10 Ch. or Elect. 1</td>
<td>*Music 11 Ch. or El. 1</td>
<td>*Music 12 Ch. or El. 1</td>
</tr>
<tr>
<td>101 Harmony</td>
<td>100 Counterp.</td>
<td>117 Composition</td>
</tr>
<tr>
<td>113 Applied</td>
<td>119 Applied</td>
<td>120 Applied</td>
</tr>
<tr>
<td>112 Form</td>
<td>Physics 50</td>
<td>Physics 51</td>
</tr>
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#### FOURTH YEAR

<table>
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<tr>
<td>168 Applied</td>
<td>169 Applied</td>
<td>170 Applied</td>
</tr>
<tr>
<td>Phil. 129 Aesth.</td>
<td>157 Composition</td>
<td>199 Recital</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td>Physics 51</td>
<td>Pol. Sci. 101</td>
</tr>
</tbody>
</table>

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

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lib. Arts 11 or Elect. 5</td>
<td>Music 13 Appre........5</td>
<td>Mus. 9 Sight Sling......5</td>
</tr>
<tr>
<td>Mus. 15 Applied.........5</td>
<td>15 Applied...........5</td>
<td>20 Applied...........5</td>
</tr>
<tr>
<td>11 Chorus or Elect.</td>
<td>*Music 11 Ch. or El. 1</td>
<td>63 Harmony............5</td>
</tr>
<tr>
<td>English 1 Composition....3</td>
<td>English 2 Composition...3</td>
<td>56 School Music........5</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Sci. 1%</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
</tr>
</tbody>
</table>

#### SECOND YEAR

| Music 10 or El..........1 | *Music 11 Ch. or El. 1 | *Music 12 Ch. or El. 1 |
| 16 Ear Train............5 | 61 Harmony............5 | 63 Harmony............5 |
| Econ. or Pol. Scl. or Soc. 5 | Physics 50 Sound...5 | 56 School Music........5 |
| For. Lang.              | 117 Composition.........5 | Phys. Ed. or Mil. Sound...5 |
| Phys. Ed. or Mil. Sci. 1% | Phys. Ed. or Mil. Sci. 1% | Phys. Ed. or Mil. Sci. 1% |

#### THIRD YEAR

<table>
<thead>
<tr>
<th>Music 08 Applied.........3</th>
<th>Music 09 Applied.........3</th>
<th>Mus. 70 Applied.........3</th>
</tr>
</thead>
<tbody>
<tr>
<td>101 Harmony</td>
<td>114 Mus. Educ...........2</td>
<td>112 Form................5</td>
</tr>
<tr>
<td>113 Mus. Educ</td>
<td>Educ. 101</td>
<td>Educ. 160N...............2</td>
</tr>
<tr>
<td>For. Lang.</td>
<td>6</td>
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</tr>
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</table>

#### FOURTH YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>154 Mus. Superv.........2</td>
<td>155 Mus. Superv.........2</td>
<td>156 Mus. Superv.........2</td>
</tr>
<tr>
<td>120 Counterpoint.........5</td>
<td>Educ. 145</td>
<td>Educ. 155</td>
</tr>
<tr>
<td>Phil. 129 Aesth..........5</td>
<td>Educ. 149</td>
<td>Elective</td>
</tr>
<tr>
<td>Pol. Sci. 101...........2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN COMPOSITION

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lib. Arts 11 or El.....5</td>
<td>Music 13 Appre........5</td>
<td>Mus. 9 Sight Sling......5</td>
</tr>
<tr>
<td>For. Lang.</td>
<td>For. Lang.</td>
<td>8 Mus. Hist............5</td>
</tr>
<tr>
<td>Mus. 15 Applied.........3</td>
<td>Music 19 Applied........3</td>
<td>20 Applied...........3</td>
</tr>
<tr>
<td>English 1</td>
<td>English 2</td>
<td>English 3</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Sci. 1%</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
</tr>
</tbody>
</table>

#### SECOND YEAR

<table>
<thead>
<tr>
<th>Music 10 Cho. or El.....1</th>
<th>*Music 11 Cho. or El. 1</th>
<th>*Music 12 Cho. or El. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 Ear Training...........5</td>
<td>51 Harmony............5</td>
<td>63 Harmony............5</td>
</tr>
<tr>
<td>For. Lang.</td>
<td>For. Lang.</td>
<td>Elective</td>
</tr>
<tr>
<td>Econ. or Pol. Scl. or Soc. 5</td>
<td>Physics 50 Sound...5</td>
<td>Physics 61 Sound........5</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Sci. 1%</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
<td>Phys. Ed. or Mil. Sci. 1%</td>
</tr>
</tbody>
</table>

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

†The completion of this course will entitle the graduate to receive the University normal diploma.
### College of Fine Arts

#### Third Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 10 Cho. or El.</td>
<td>*Music 11 Cho. or El.</td>
<td>*Music 12 Cho. or El.</td>
<td>1</td>
</tr>
<tr>
<td>68 Applied</td>
<td>69 Applied</td>
<td>70 Applied</td>
<td>3</td>
</tr>
<tr>
<td>101 Harmony</td>
<td>109 Counterpoint</td>
<td>117 Composition</td>
<td>5</td>
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<tr>
<td>112 Form</td>
<td>Elective</td>
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</tbody>
</table>

#### Fourth Year

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<th>Winter Quarter</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Phil. 129 Aesth.</td>
<td>Elective</td>
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#### For the Degree of Bachelor of Arts in Music

##### First Year

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<td>English 1</td>
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<tr>
<td>§Science</td>
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<td>For. Lang.</td>
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<td>Phys. Ed. or Mil. Sci. 1½</td>
<td>Phys. Ed. or Mil. Sci. 1½</td>
<td>Phys. Ed. or Mil. Sci. 1½</td>
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##### Second Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
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<th>Spring Quarter</th>
<th>Credits</th>
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<tr>
<td><strong>Music elective</strong></td>
<td><strong>Music elective</strong></td>
<td><strong>Music elective</strong></td>
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<td>Physics 50</td>
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<tr>
<td>For. Lang.</td>
<td>For. Lang.</td>
<td>For. Lang.</td>
<td>5</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Sci. 1½</td>
<td>Phys. Ed. or Mil. Sci. 1½</td>
<td>Phys. Ed. or Mil. Sci. 1½</td>
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##### Third Year

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<th>Winter Quarter</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<tr>
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<tr>
<td>§Lib. Arts elective</td>
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#### Curriculum in Architecture Leading to the Degree of Bachelor in Architecture

##### First Year

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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>Arch. 1 Arch. Apprc. 2</td>
<td>Arch. 2 Arch. Apprc. 2</td>
<td>Arch. 3 Arch. Apprc. 2</td>
<td>2</td>
</tr>
<tr>
<td>4 Ed. of Design</td>
<td>5 Ed. of Design</td>
<td>6 Ed. of Design</td>
<td>4</td>
</tr>
<tr>
<td>7 Graphics</td>
<td>8 Graphics</td>
<td>9 Graphics</td>
<td>1</td>
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<tr>
<td>Phys. Ed. or Mil. Sci. 1½</td>
<td>English 2</td>
<td>Phys. Ed. or Mil. Sci. 1½</td>
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##### Second Year

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<tr>
<th>Autumn Quarter</th>
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<tr>
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<td>Arch. 53 Hist. of Arch. 2</td>
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<td>54 Design Gr. I.</td>
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<td>Math. 54 Trigonometry</td>
<td>Math. 55 Algebra</td>
<td>Math. 56 Anal. Geom.</td>
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<td>French 2</td>
<td>French 3</td>
<td>C.E. 105 Lighting</td>
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*Only those who have successfully completed the work in course 11 will be eligible for registration in course 12.

If a student presents one unit of high school chemistry or physics and one unit of high school botany or geology or zoology, he may substitute 10 hours of elective for this science requirement.

Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

*(1) Among the music courses indicated above the following are required: 6, 9, 15, 16, 51, 55, 101, 117.*
### Curricula

#### Third Year

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<tr>
<th>Autumn Quarter Credits</th>
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<tbody>
<tr>
<td>Arch. 101 Hist. of Arch. 2</td>
<td>Arch. 102 Hist. of Arch. 2</td>
<td>Arch. 103 Hist. of Arch. 2</td>
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<tr>
<td>104 Design Gr. II... 5</td>
<td>105 Design Gr. II... 5</td>
<td>106 Design Gr. II... 5</td>
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<td>120 Work. Drawings... 2</td>
<td>121 Work. Drawings... 2</td>
<td>122 Work. Drawings... 2</td>
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<tr>
<td>40 Water Color... 2</td>
<td>117 Bldg. Con. ... 2</td>
<td>118 Bldg. Con. ... 2</td>
</tr>
<tr>
<td>C.E. 130 Theo. Con... 3</td>
<td>41 Water Color... 2</td>
<td>42 Water Color... 2</td>
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<tr>
<td>Pol. Sci. 101........ 2</td>
<td>126 Pencil Sketch... 1</td>
<td>126 Pencil Sketch... 1</td>
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#### Fourth Year

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<td>Arch. 154 Design Gr.III 5</td>
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<td>112 Freehand Draw... 3</td>
<td>113 Freehand Draw... 3</td>
<td>114 Freehand Draw... 3</td>
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<tr>
<td>C.E. 106 Plumb. &amp; San. 2</td>
<td>M.E. 107 Heat &amp; Vent. 2</td>
<td>140 Hist. Arch. Con. 2</td>
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<td>Physics 1 General... 4</td>
<td>Physics 2 General... 5</td>
<td>Physics 113 Accou&amp; Ill. 4</td>
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<td>B.A. 54 Bus. Law... 3</td>
<td>Arch. 115 Modelling... 2</td>
<td>PSD 160 Life... 3</td>
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#### Fifth Year

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<td>Arch. 157 Des. Gr. III 5</td>
<td>Arch. 158 Thesis... 8</td>
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<tr>
<td>152 Theo. of Arch... 2</td>
<td>153 Arch. Materials... 2</td>
<td>159 Spec. &amp; Of. Fx. 2</td>
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<td>PSD 161 Life........ 5</td>
<td>PSD 162 Life........ 2</td>
<td>Electives............. 5</td>
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<tr>
<td>Electives............... 6</td>
<td>Arch. 170 Sen. Mechan. 2</td>
<td>Electives............... 6</td>
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Preferred Electives—Philosophy, Economics, World Literature, Aesthetics, Psychology, French, or General History.

FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN PAINTING AND DESIGN

#### First Year

<table>
<thead>
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<th>Autumn Quarter Credits</th>
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<th>Spring Quarter Credits</th>
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<tbody>
<tr>
<td>P.S.D. 5 Drawing...... 3</td>
<td>P.S.D. 6 Drawing...... 3</td>
<td>P.S.D. 7 Drawing...... 3</td>
</tr>
<tr>
<td>9 Art Struc........... 3</td>
<td>10 Art Struc........... 3</td>
<td>11 Art Struc........... 3</td>
</tr>
<tr>
<td>English Composition... 3</td>
<td>English Composition... 3</td>
<td>English Composition... 3</td>
</tr>
<tr>
<td>Foreign Language... 5</td>
<td>Foreign Language... 5</td>
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#### Second Year

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<th>Autumn Quarter Credits</th>
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<th>Spring Quarter Credits</th>
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<tbody>
<tr>
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<td>P.S.D. 54 Art Struc... 3</td>
<td>P.S.D. 55 Art Struc... 3</td>
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<tr>
<td>56 Draw. and Ptg... 3</td>
<td>57 Drawing and Ptg... 3</td>
<td>58 Drawing and Ptg... 3</td>
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<tr>
<td>Foreign Language... 5</td>
<td>Phys. Ed. or Mill. Sci.. 1½</td>
<td>Phys. Ed. or Mill. Sci.. 1½</td>
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<td>Phys. Ed. or Mill. Sci.. 1½</td>
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<td>Electives............... 4</td>
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#### Third Year

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<th>Spring Quarter Credits</th>
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<td>P.S.D. 127 Hist. of Ptg. 1</td>
<td>P.S.D. 128 Hist. of Ptg. 1</td>
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<tr>
<td>107 Portrait........... 3</td>
<td>108 Portrait........... 3</td>
<td>109 Portrait........... 3</td>
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<tr>
<td>103 Pottery or........ 3</td>
<td>104 Pottery, or........ 3</td>
<td>Arch. 8 Arch. Apprec... 2</td>
</tr>
<tr>
<td>107 Metalwork........... 3</td>
<td>156 Jewelry........... 3</td>
<td>Laboratory Sci........ 5</td>
</tr>
<tr>
<td>Pol. Sci., Ec. or Soc. 5</td>
<td>Laboratory Sci........ 5</td>
<td>Electives............... 4</td>
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#### Fourth Year

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<td>P.S.D. 161 Life........ 3</td>
<td>P.S.D. 162 Life........ 3</td>
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<td>116 Illustration, or... 3</td>
<td>151 Art Struc., or... 3</td>
<td>152 Art Struc., or... 3</td>
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<td>166 Art Struc......... 3</td>
<td>167 Art Struc......... 3</td>
<td>168 Art Struc......... 3</td>
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<td>Pol. Sci. 101.......... 2</td>
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</table>
FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR
IN PUBLIC SCHOOL ART

All students intending to teach are expected to take all the courses
given in this curricula. All substitutions must be arranged for through the
head of the department.

**First Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
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<tbody>
<tr>
<td>P.S.D. 5 Drawing</td>
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<td>P.S.D. 7 Drawing</td>
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<td>9 Art Struc.</td>
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<td>10 Art Struc.</td>
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<td>11 Art Struc.</td>
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<td>English Composition</td>
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<td>English Composition</td>
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<td>Phys. Ed. or Mil. Scil. 1½</td>
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**Second Year**

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<td>56 Drawing and Ptg.</td>
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<td>57 Drawing and Ptg.</td>
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<td>Electives</td>
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<td>Lib. Arts 11 or Elect.</td>
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**Third Year**

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<th>Spring Quarter</th>
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<tr>
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<td>or 100 Life</td>
<td>3</td>
<td>P.S.D. 108 Portrait</td>
<td>or 161 Life</td>
<td>3</td>
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<td>128 Hist. of Ptg.</td>
<td>1</td>
<td>127 Hist. of Ptg.</td>
<td>1</td>
<td>128 Hist. of Ptg.</td>
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<td>105 Pottery, or 157 Metalwork</td>
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<td>104 Pottery, or 128 Jewelry</td>
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**Fourth Year**

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<td>P.S.D. 106 Art Struc.</td>
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FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR
IN INTERIOR DESIGN

**First Year**

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<th>Spring Quarter</th>
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<tbody>
<tr>
<td>P.S.D. 5 Drawing</td>
<td>3</td>
<td>P.S.D. 6 Drawing</td>
<td>3</td>
<td>P.S.D. 7 Drawing</td>
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<td>3</td>
<td>11 Art Struc.</td>
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<td>Foreign Language</td>
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<td>Foreign Language</td>
<td>5</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Scil. 1½</td>
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<td>Phys. Ed. or Mil. Scil. 1½</td>
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<td>Phys. Ed. or Mil. Scil. 1½</td>
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**Second Year**

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<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<td>Arch. 3 Arch. Apprec.</td>
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<td>5 Elem. of Arch.</td>
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<td>6 Elem. of Arch.</td>
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<tr>
<td>7 Graphics</td>
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<td>8 Graphics</td>
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<td>Phys. Ed. or Mil. Scil. 1½</td>
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**Third Year**

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**Fourth Year**

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<td>P.S.D. 173 Int. Des.</td>
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<td>P.S.D. 20 Ap. of Sculp.</td>
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<tr>
<td>128 Hist. of Ptg.</td>
<td>1</td>
<td>127 Hist. of Ptg.</td>
<td>1</td>
<td>128 Hist. of Ptg.</td>
<td>1</td>
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<tr>
<td>H.E. 143 House Furn.</td>
<td>3</td>
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<td>10</td>
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<tr>
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<td>7</td>
<td>Electives</td>
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### Curricula

#### Major in Painting and Sculpture

**First Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<tbody>
<tr>
<td>P.S.D. 5 Drawing</td>
<td>3</td>
<td>P.S.D. 6 Drawing</td>
<td>3</td>
<td>P.S.D. 7 Drawing</td>
<td>3</td>
</tr>
<tr>
<td>9 Art Struc.</td>
<td>3</td>
<td>10 Art Struc.</td>
<td>3</td>
<td>11 Art Structure</td>
<td>3</td>
</tr>
<tr>
<td>English Composition</td>
<td>3</td>
<td>English Composition</td>
<td>3</td>
<td>English Composition</td>
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<td>5</td>
<td>Foreign Language</td>
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<tr>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1%</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1%</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1%</td>
</tr>
</tbody>
</table>

**Second Year**

| P.S.D. 66 Painting | 3       | P.S.D. 57 Painting | 3       | P.S.D. 58 Painting | 3       |
| 65 Drawing and Fig. | 3       | 66 Draw. and Fig. | 3       | 67 Drawing and Fig. | 3       |
| or 72 Sculpture | 3       | or 73 Sculpture | 3       | or 74 Sculpture | 3       |
| Foreign Language | 5       | Electives | 10       | Electives | 5       |
| Phys. Ed. or Mil. Sci. | 1% | Phys. Ed. or Mil. Sci. | 1% | Phys. Ed. or Mil. Sci. | 1% |

**Third Year**

| P.S.D. 116 Illustration | 3       | P.S.D. 105 Art Struc. | 3       | Arch. 3 Arch. Approc. | 2       |
| 107 Portrait | 3       | or 122 Sculpture | 3       | 109 Portrait | 3       |
| or 126 Hist. of Ptg. | 3       | or 123 Sculpture | 3       | or 124 Sculpture | 3       |
| 125 Hist. of Ptg. | 1       | 127 Hist. of Ptg. | 1       | 128 Hist. of Ptg | 1       |
| Pol. Sci. or Soc. | 5       | Laboratory Science | 5       | Laboratory Science | 5       |
| Electives | 0       | Electives | 8       | Electives | 1       |

**Fourth Year**

| P.S.D. 160 Life | 3       | P.S.D. 161 Life | 3       | P.S.D. 162 Life | 3       |
| 164 Comp. | 3       | 165 Comp. | 3       | 166 Comp. | 3       |
| Electives | 10      | Electives | 10      | Electives | 8       |
| Pol. Sci. 101 | 2       |              |          |              |         |

**Curriculum Leading to the Degree of Bachelor of Arts in Dramatic Art**

**First Year**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
<td>Dram. Art 9</td>
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<td>Dram. Art 107</td>
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<td>English 3 Composition</td>
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<tr>
<td>English 1 Comp</td>
<td>3</td>
<td>English 2 Composition</td>
<td>3</td>
<td>*Foreign Language</td>
<td>5</td>
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<tr>
<td>Chem. Bot. or Zool</td>
<td>5</td>
<td>Phys. Ed. or Mil. Sci.</td>
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<td>1%</td>
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<tr>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1%</td>
<td>Dram. Art 10</td>
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<td></td>
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</tr>
</tbody>
</table>

**Second Year**

| Dramatic Art 61 | 5       | Dram. Art 62 | 5       | Dramatic Art 63 | 5       |
| *Foreign Language | 5       | Psychology 1 | 5       | Pol. Sci., Soc. or Econ. | 5       |
| Lib. Arts 11 or elect. | 6       | Foreign Language | 5       | Foreign Language | 5       |
| Phys. Ed. or Mil. Sci. | 1% | Phys. Ed. or Mil. Sci. | 1% | Phys. Ed. or Mil. Sci. | 1% |

**Third Year**

| Electives | 6       | Electives | 6       | Electives | 6       |
| Dram. Art 104 | 4       | Dram. Art 105 | 4       | Dram. Art 106 | 4       |
| 127 | 5       | &Lib. Arts Electives | 5       | &Lib. Arts Electives | 5       |

**Fourth Year**

| &Lib. Arts Electives | 7       | &Lib. Arts Electives | 7       | &Lib. Arts Electives | 7       |
| Electives | 2       | Electives | 2       | Electives | 2       |

**Notes:**
- If a student presents one unit of high school chemistry or physics, and one unit of high school botany or geology or zoology, he may substitute 10 hours of elective for this science requirement.
- Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.
- At least 10 credits in foreign language should be in French.
**College of Fine Arts**

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN DRAMATIC ART**

### First Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
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<td>English 1 Composition</td>
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<td>English 2 Composition</td>
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<td>*Foreign Language</td>
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<tr>
<td>Dram. Art 5</td>
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<tr>
<td>Chem., Bot. or Zool</td>
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<td>1½</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
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</tbody>
</table>

### Second Year

| *Foreign Language | 5 | Psychology 1 | 5 | Pol. Sci., Soc. or Econ | 5 |
| Lib. Arts 11 or electives | 5 | Foreign Language | 5 | Foreign Language | 5 |
| Phys. Ed. or Mil. Sci. | 1½ | Phys. Ed. or Mil. Sci. | 1½ | Phys. Ed. or Mil. Sci. | 1½ |

### Third Year

| Dram. Art Electives | 5 | Dram. Art Electives | 5 | Dram. Art Electives | 5 |
| 127 | 5 | 105 | 4 | 106 | 4 |
| 104 | 4 | Electives | 6 | Electives | 6 |

### Fourth Year

| Dram. Art 101 | 3 | Dram. Art 102 | 3 | Dram. Art 103 | 3 |
| 151 | 3 | 152 | 3 | 163 | 2 |
| 114 | 2 | 115 | 2 | 116 | 2 |
| Phil. 120 (Aesthetics) | 5 | Electives | 7 | Education 160L | 2 |
| Electives | 2 | Electives | 3 | Pol. Sci. 101 | 2 |

*At least 10 credits in foreign language should be in French.

**Courses of Study**

For description of courses in architecture, dramatic art, music, and painting, sculpture and design, see Departments of Instruction section.
COLLEGE OF FISHERIES

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . . President of the University
Thomson, David, B.A. (Toronto) ........................................... Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ...................... Assistant Dean of Faculties

THE FACULTY, 1928-29

Cobb, John N. .................................. Professor of Fisheries; Dean of the College of Fisheries

Parks, Clarence T., M.S. (Washington) .................... Assistant Professor of Fisheries
Crawford, Donald R., M.S. (Washington) ................. Assistant Professor of Fisheries
Jarvis, Norman D., M.S. (Washington) ................... Instructor in Fisheries
Schultz, Leonard P., M.S. (Michigan) ...................... Instructor in Ichthyology

COOPERATING FACULTY

Kincaid, Trevor, A.M. (Washington) ....................... Professor of Zoology
Padelford, Frederick Morgan, Ph.D. (Yale) .............. Professor of English and Dean of the Graduate School
Osborn, Frederick Arthur, Ph.D. (Michigan) .......... Professor of Physics
Johnson, Charles Willis, Ph.C., Ph.D. (Michigan) ..... Professor of Pharmaceutical Chemistry, Dean of the College of Pharmacy, and State Chemist
Frye, Theodore Christian, Ph.D. (Chicago) .............. Professor of Botany
Eastwood, Everett Owen, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology) .................. Professor of Mechanical Engineering
Hall, David Connolly, M.D. (Rush Medical College) .... University Health Officer; Professor of Hygiene
Benson, Henry Kreitzer, Ph.D. (Columbia) ................ Professor of Chemical Engineering
Weinziirli, John, Ph.D. (Wisconsin), Dr.Ph. (Harvard) ... Professor of Bacteriology
Ayer, Leslie James, J.D. (Chicago) ......................... Professor of Law
Dehn, William Maurice, Ph.D. (Illinois) ................. Professor of Organic Chemistry
Burd, Henry Alfred, Ph.D. (Illinois) ...................... Professor of Business Administration
Cox, William Edward, A.M. (Texas) ....................... Professor of Business Administration; Dean of the College of Business Administration
Smith, George McPhail, Ph.D. (Freiburg) ................. Professor of Inorganic Chemistry
Wilson, George Samuel, B.S. (Nebraska) ................ Professor of Mechanical Engineering
Rigg, George Burton, Ph.D. (Chicago) ..................... Professor of Botany
Tartar, Herman Vance, Ph.D. (Chicago) .................... Professor of Chemistry
Skinner, Macy Millmore, Ph.D. (Harvard) ................ Professor of Business Administration
Thompson, Thomas G., Ph.D. (Washington) .............. Associate Professor of Chemistry
1Guberlet, John Earl, Ph.D. (Illinois) .................... Associate Professor of Zoology
Smith, Eli Victor, Ph.D. (Northwestern) .................... Associate Professor of Zoology
Wilcox, Elgin Roscoe, Met.E. (Washington) .............. Associate Professor of Civil Engineering
Gazette, George Irving, B.S. (C.E.) (Michigan) .......... Assistant Professor of Mathematics
Powell, Sargen, Ph.D. (Illinois) ......................... Assistant Professor of Chemistry
Beuschlein, Warren Lord, M.S. (Ch.E.) (Washington) . Assistant Professor of Chemical Engineering

1Absent on leave.
College of Fisheries

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 similar institution of equal rank will be given full graduate standing, but he must have a satisfactory knowledge of zoology, chemistry, bacteriology, and botany. Selection of work for this degree must be approved by the director of the college. Before being recognized as a candidate for an advanced degree, a student must appear before a committee appointed by the dean of the Graduate School, who shall determine the student's fitness for such work and confer with him upon his proposed course of study.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

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 53.

Advanced Standing.—Credit will be given for subjects pursued at other colleges of recognized rank upon presentation to the registrar of certificates that such subjects have been satisfactorily completed. Graduates in this institution and others of similar rank are admitted to graduate standing.

LABORATORIES

For description of laboratories, see page 42.

AQUARIUM

The aquarium is equipped with a number of tanks for live fishes, and with balanced and other aquaria for study of aquarium management. Here students are taught to make accurate observations, record data, note habits, and to study reactions and the life history of fishes.
The fish hatchery occupies about fourteen hundred square feet of floor space. It is furnished with hatching troughs, baskets, and other essential equipment for care of 2,000,000 salmon or trout eggs. A complete equipment consisting of batteries of open-top jars is provided for care of several million semi-buoyant eggs, such as those of the shad, whitefish and yellow perch. A tidal box is also available for handling eggs of saltwater species. Feeding tanks and aquaria are provided in which experimental work in fish culture may be carried on. A number of cement lined ponds are available in the college grounds for rearing of various species of aquatic animals.

Within easy reach of the University are state and federal fish hatcheries where a study may be made of the actual conditions under which fish culture is carried on.

An arrangement has been effected with the United States Bureau of Fisheries under the terms of which the most promising seniors in fish culture will be afforded opportunity to spend five or six months at some one of the bureau's eighteen hatcheries in Washington, Oregon, and Alaska, half of this period to be during the summer vacation. They will be given opportunity to familiarize themselves with building and repair of hatcheries, setting fish traps, stripping spawning fish, and fertilizing and care of eggs until the young are hatched out. While so engaged, students will be paid wages current for this class of work. At the expiration of this period the students will return to the University to complete their course. After passing the regular civil service examination, as many of these students as there is room for will be appointed to the position of fish culturist.

Commercial Operations

In or near Seattle and available for study are plants for the canning of fish, crabs, shrimps and clams; the mild-curing of salmon; the pickling of salmon, herring, and sablefish; the freezing and cold storage of fish and oysters; the dehydration of fish; the smoking of fish, and the preparation of oil, fish meal and fertilizer from the waste. Two large can-making establishments, several plants manufacturing canning machinery, and a number of others supplying various machines and supplies for the industry, also are located in Seattle. Such of these industries as are not in Seattle are conveniently situated nearby, and the transportation costs to them are low.

Shellfish Culture.—On Puget Sound and in Hood Canal are numerous private oyster beds where cultivation has been practiced for some years. The state owns certain oyster reserves which are utilized for experimental purposes. These are all within reasonable distance of Seattle and are available for study purposes by the students of the college.

Fishery Operations.—Trap netting, purse and haul-seining, gill getting, 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.
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 advisers unless such deviation is imperative. All electives must have the approval of class advisers.

Attention of the students is directed to the following courses as desirable electives, those to be selected depending on the curriculum followed: B.A. 103, Money and Banking; B.A. 105, Business Organization; B.A. 106, Economics of Markets and Advertising; B.A. 167, Employment Management; Bact. 103, Public Hygiene; Chem. 104, Food Chemistry; Chem. 123, Industrial Chemistry; Chem. 165, Chemistry of Nutrition; M.E. 82, 198, Mechanical Engineering; modern language (Spanish or German preferred); Zool. 127, 128, Comparative Anatomy; Zool. 101, Cytology; Physiology 7, Elementary Physiology.

I. Fish Biology

First Year

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 25 5
English 4 3 English 5 3 Gen. Engineering 7 3

Second Year

Fisheries 53 5 Fisheries 54 5 Zoology 108 5
Bacteriology 101 5 Bacteriology 102 5 Botany 58 5
Zoology 100 5 Appr. Electives 5 Fisheries 60 5
Mil. Sci. or Phys. Ed. 1½ Mil. Sci. or Phys. Ed. 1½ Political Science 101 2

Third Year

Fisheries 101 5 Fisheries 102 5 Fisheries 103 5
Fisheries 140 5 Fisheries 104 5 Fisheries 105 5
Zoology 10 2 Mathematics 18 5 Chemistry 111 5
Appr. Electives 3
## Curricula

### FOURTH YEAR

<table>
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<th>Autumn Quarter</th>
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<th>Credits</th>
<th>Spring Quarter</th>
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<td>Fisheries 151</td>
<td>5</td>
<td>Fisheries 152</td>
<td>5</td>
</tr>
<tr>
<td>Fisheries 154</td>
<td>5</td>
<td>Fisheries 186</td>
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<td>Fisheries 157</td>
<td>2</td>
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<tr>
<td>Fisheries 180</td>
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<td>Appr. Electives</td>
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<td>Appr. Electives</td>
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</tr>
<tr>
<td>Fisheries 185</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### II. FISHERIES TECHNOLOGY

#### First Year

| Fisheries 1  | 2       | Fisheries 2   | 2       | Fisheries 6   | 2       |
| Zoology 1    | 5       | Zoology 2     | 5       | B.A. 5       | 3       |
| 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. | 1% | Mil. Sci. or Phys. Ed. | 1% | Mil. Sci. or Phys. Ed. | 1% |

#### Second Year

| Fisheries 53  | 5       | Fisheries 54  | 5       | Fisheries 60  | 3       |
| Bacteriology 101 | 5     | Bacteriology 102 | 5       | Fisheries 65  | 3       |
| Chem. 131 or 128 | 5   | Chem. 132 or 129 | 5       | Chemistry 111 | 5       |
| Mil. Sci. or Phys. Ed. | 1% | Mil. Sci. or Phys. Ed. | 1% | Mil. Sci. or Phys. Ed. | 1% |

#### Third Year

| Fisheries 110 | 5       | Fisheries 104 | 5       | Fisheries 105 | 5       |
| Fisheries 120 | 5       | Fisheries 111 | 5       | Fisheries 122 | 5       |
| Mathematics 18 | 5     | Fisheries 121 | 5       | Fisheries 102 | 5       |
|               |         |               |         | Pol. Sci. 101 | 3       |

#### Fourth Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<td>Fisheries 152</td>
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<td>Fisheries 180</td>
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<td>Fisheries 151</td>
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<td>Fisheries 157</td>
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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.

#### Graduate

<table>
<thead>
<tr>
<th>Fisheries 201</th>
<th>Research*</th>
<th>Fisheries 202</th>
<th>Research*</th>
<th>Fisheries 203</th>
<th>Research*</th>
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</table>

*Time and credit to be arranged.

### Courses of Study

For description of courses offered by the College of Fisheries, see Departments of Instruction section.
COLLEGE OF FORESTRY

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern). Dean of Faculties
Thomson, David, B.A. (Toronto). President of the University
Padelford, Frederick Morgan, Ph.D. (Yale). Assistant Dean of Faculties

THE FACULTY, 1928-1929

PROFESSORS

Winkenwerder, Hugo, M.F. (Yale). Professor of Forestry; Dean of the College of Forestry
Kirkland, Burt Persons, A.B. (Cornell). Professor of Forestry

ASSOCIATE PROFESSOR

Grondal, Bror Leonard, M.S.F. (Washington). Associate Professor of Forestry

ASSISTANT PROFESSORS

Alexander, J. L., B.S.F. (Toronto). Assistant Professor of Forestry
Brandstrom, Axel, B.S.F. (Washington). Assistant Professor of Forestry

LECTURER

Clark, Elias Treat, M.F. (Yale). Instructor in Forestry

COOPERATING FACULTY

Benson, Henry Kretzor, Ph.D. (Columbia). Professor of Chemical Engineering
Cox, William E., A.M. (Texas). Professor of Economics and Business Administration
Hall, David Connolly, M.D. (Chicago). University Health Officer; Professor of Hygiene
Kincald, Trevor, M.A. (Washington). Professor of Zoology
Osborn, Frederick A., Ph.D. (Michigan). Professor of Physics
Skinner, Macy M., Ph.D. (Harvard). Professor of Business Administration
Wilson, George Samuel, B.S. (Nebraska). Professor of Mechanical Engineering
Goodspeed, George Edward, B.S. (M.I.T.) (Massachusetts Institute of Technology). Associate Professor of Geology
Hotson, John William, Ph.D. (Harvard). Associate Professor of Botany
Hamilton, James Baker, C.E. (Washington). Assistant Professor of Civil Engineering
Neikirk, Lewis Irving, Ph.D. (Pennsylvania). Assistant Professor of Mathematics

GENERAL INFORMATION

The College of Forestry was established in 1907. Its location has exceptional advantages. The University campus comprises 582 acres, forty of which are in timber, offering splendid opportunities for field work in silviculture and forest measurements. Other excellent forests are within walking distance of the campus. The University owns large forest tracts in various parts of the state, where students may conduct extensive research work. The immense national forests within a few hours’ ride of Seattle afford practical object lessons in forest management. Washington is the largest lumber producing state in the country, and Seattle is in the center of the timber industry of Washington and the Northwest. In its many sawmills and wood-working industries, the student has unrivaled opportunities for studying wood utilization.

BUILDINGS

The main building of the College of Forestry, Alfred H. Anderson Hall, was completed in the spring of 1925 at a cost of $250,000. It contains the lecture rooms, student laboratories, exhibition rooms, library, reading and Forest Club rooms and an assembly hall seating 250. Covering a ground area of 7,500 feet, it has three full floors and a large draughting room on
General Information

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 illustrated magazine known as the University of Washington Forest Club Quarterly. The subscription price is $1 a year. It is devoted largely to Western forestry and lumbering problems.

Officers of the club for the year 1927-1928 are: President, A. W. Blue; vice-president, Charles H. Overbay; secretary-treasurer, Cass B. Roberts; editor, Charles H. Overbay.

Field Instruction and Summer Work

Much of the instruction in technical forestry and lumbering is given in the field, in nearby forests, logging camps, sawmills, woodworking plants, and plants that manufacture equipment. This work is intensely practical and enables the student to correlate theoretical class room instruction with its application in the field.

Students in forestry are urged to spend their summer vacations in some line of practical work connected with the forest industry. The college is situated in the heart of a great lumbering section and near extensive national forests which offer ample opportunity for summer employment. Students not only acquire valuable experience in this way, but earn a considerable portion of their university expenses. The college cooperates with the industries in placing students and graduates in the positions for which they are best fitted.

Forestry and Lumbering Laboratories

For description of Laboratories, see page 43.

Requirements for Admission

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

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 53. section, page 220.
SPECIAL REQUIREMENTS OF THE COLLEGE OF FORESTRY

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 ....... 1 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 in this institution and others of similar rank are admitted to graduate standing.

Undergraduate Work.—For the degree of bachelor of science in forestry (B.S.F.) the student must complete, in addition to required subjects outlined in the curriculum, at least 46 credits in subjects selected from forestry, lumbering, engineering, or the botanical, chemical, zoological, geological or economic sciences, the subjects to be approved by the student's class adviser. A candidate for the degree must present credits in one of the following advanced courses: Forestry 184, 187, 190 or 196. In no case shall more than 25 elective credits in any department other than forestry be allowed for graduation. Exclusive of shop and military science, 180 credits are required for graduation. Candidates for the degree must receive grades of A, B, or C in at least three-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 section, page 220.

SPECIAL OPPORTUNITIES FOR ADVANCED WORK

The physical equipment of the College of Forestry and the exceptional advantages of its location are particularly advantageous for graduate students. The advanced courses include forest geography, silviculture, management, wood technology, timber physics, wood preservation, advanced forest products, the business of lumbering, and research. A graduate from a college of forestry of equal rank with the College of Forestry of this University may complete the requirements for the advanced degree in one year. Graduates from other institutions of equal rank which give no courses in technical forestry may complete the required work in two years, providing they have training in the fundamental sciences, mathematics and surveying.

SCHOLARSHIPS AND PRIZES

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

Xi Sigma Pi Honor Roll.—The University of Washington chapter of Xi Sigma Pi, national forestry honor fraternity, has provided a mounted silver
scroll, upon which the name of the freshman member of the Forest Club attaining the highest scholastic average will be inscribed yearly.

Organization of the Curriculum

The curriculum of the College of Forestry is organized to give the student a broad general training in his first two 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) milling and marketing of lumber. Upon beginning work in the upper division students must elect to follow one of these specialties.

Arrangements may also be made for specialization in forest pathology, forest entomology, recreation or any other lines into which a broad training in forestry enters. This may be done by substituting courses in other departments for some of the required courses in forestry. All such substitutions require the sanction of the dean and the University graduation committee.

Choice of Electives.—In election of studies students should follow the sequence of subjects as outlined in the curriculum. Deviations from the prescribed order will not be allowed by class advisers unless such deviation is imperative.

Students should decide by the end of their sophomore year in which field they desire to specialize. The student should be especially careful to register for the electives required for his advanced specialized courses as no student will be admitted to the advanced subjects who has not had the necessary prerequisites given with the course prescriptions below.

Lower Division

The lower division courses aim to give students who cannot go farther than the end of the second year, preparation for forest ranger service and training as assistants to logging engineers. On approval of the dean they will be allowed to substitute certain subjects of the junior year for some of the required freshman and sophomore work.

First Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>For. 1. Dend.*</td>
<td>5</td>
<td>Bot. 11. Foresters</td>
<td>5</td>
<td>Bot. 12. Foresters</td>
<td>5</td>
</tr>
<tr>
<td>2. Gen. Forestry</td>
<td>3</td>
<td>For. 2. Gen. For.</td>
<td>3</td>
<td>Math. 5d. Foresters</td>
<td>3</td>
</tr>
<tr>
<td>5. Woodcraft</td>
<td>2</td>
<td>Math. 52. Coll. Alg.</td>
<td>4</td>
<td>For. 4. Protection†</td>
<td>3</td>
</tr>
<tr>
<td>English 4. Comp.</td>
<td>3</td>
<td>C.E. 55. For. Survey</td>
<td>2</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>For. 57. Silvics</td>
<td>5</td>
<td>Chem. 2. Gen. Chem</td>
<td>5</td>
<td>For. 51. Mensuration</td>
<td>5</td>
</tr>
<tr>
<td>T. Protection</td>
<td>3</td>
<td>For. 58. Silvicult.</td>
<td>3</td>
<td>52. Mensuration</td>
<td>5</td>
</tr>
<tr>
<td>Pol. Sci. 101.</td>
<td>2</td>
<td>English 5. Comp.</td>
<td>8</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
</tr>
<tr>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
<td>Phys. Ed. or Mil. Sci.</td>
<td>1½</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Suggested Electives

| 1b. Topography      | 2       |                       |         |                   |         |

*Also offered in spring quarter.
†Also offered in winter quarter.
Beginning with the Upper division the student will, with the approval of his faculty adviser, elect to follow one of the specialties in forestry. In registering for upper division courses he must include all electives required as prerequisites for the advanced specialized courses. (See prerequisite list under Description of Courses, Forestry 184, 187, 190, 196.)

### THIRD YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>For. 101. Technol...</td>
<td>5</td>
<td>For. 105. Preservation...</td>
<td>3</td>
<td>For. 158. Util...</td>
<td>5</td>
</tr>
<tr>
<td>Physics 1. General...</td>
<td>5</td>
<td>Physics 2. General...</td>
<td>5</td>
<td>Physics 3. General...</td>
<td>5</td>
</tr>
<tr>
<td>For. 104. Tim. Tests...</td>
<td>5</td>
<td>Econ. 2. General...</td>
<td>3</td>
<td>Econ. 3. General...</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

- M.E. 82. Steam Engr... 3
- C.E. 22. Log. R.R... 4
- B.A. 54. Bus. Law... 3
- Bot. 111. Pathology... 5
- B.A. 65. Accounting... 5
- 55. Bus. Law... 3
- M.E. 88. Steam Engr... 3
- Lab... 3
- Chem. 111. Quant. Anal... 5
- H.E. 194. Nutrition... 2
- Chem. 101. Qual. Anal... 5

### FOURTH YEAR

| For. 151. For. Finance... | 3       | For. 126. Econ... | 3       | All elective. |
| 153. Gen. Lbr... | 5       | 152. For. Organ... | 3       | |

**Suggested Electives**

- For. 185. Log. Engr... 4
- 186. Log. Engr... 4
- 188. Theory & Prac. of Kiln Drying... 5
- 194. Seminar... 3
- 196. For. Mgmt... 8
- 189. Admin... 5
- 180. Wood Pulp... 5
- 160-162. Invest’n... 1-5
- 180. Adv. Pres... 3
- 100. Adv. Pres... 3
- 200. Seminar... 3
- 214. Research... 1-5
- 221. History... 3
- Elective... 10
- 224. Adv. Mgmt and Marketing... 5
- 215. Research... 1-5

### GRADUATE

The following subjects are primarily for graduate students. Seniors will be allowed to elect them only on recommendation of the dean and the instructor concerned. With the exception of the thesis none of the subjects, strictly speaking, is required, but the student will elect all those belonging to one specialty as determined on consultation with his faculty adviser. A sufficient number will have to be taken to fulfill the requirements for the master’s degree. Nine credits only will be allowed for total thesis credit.

| 201. For. Geog... | 3       | 200. Seminar... | 3       | 223. Adv. Mgmt... | 8       |
| 205. Seminar... | 3       | 214. Research... | 1-5     | 224. Adv. Milling and Marketing... 5 |
| 221. History... | 3       | Elective... | 10      | 215. Research... | 1-5     |

### COURSES OF STUDY

For description of courses offered by the College of Forestry, see Departments of Instruction section.
SCHOOL OF LAW

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) .... President of the University
Thomson, David, B.A. (Toronto) ........................................ Dean of Faculty
Paddelford, Frederick Morgan, Ph.D. (Yale) .................. Assistant Dean of Faculty

THE FACULTY, 1928-1929

Schweppe, Alfred John, A.M. (Wisconsin), LL.B. (Minnesota) .... Professor of Law; Dean of the School of Law
Lantz, Harvey, A.M. (De Pauw), LL.B. (Kent) .............. Professor of Law
Goodner, Ivan Wilbur, LL.B. (Nebraska) .................. Professor of Law
Bissett, Clark Prescott, A.B. (Hobart), Litt.D. (Lincoln University) ... Professor of Law
Ayer, Leslie James, B.S., J.D. (Chicago) .................. Professor of Law
O'Bryan, Joseph Grattan, A.B. (Jesuit College) .............. Professor of Law
Nottelman, Rudolf H., A.M. (Illinois), LL.B. (Yale) ........ Professor of Law
Martin, Charles Emanuel, Ph.D. (Columbia) ................ Professor of Political Science
Beardsley, Arthur Sydney, LL.B., B.S. (Lib. Sci.), Ph.D. (Washington) ... Law Librarian and Lecturer on Law

ORGANIZATION AND EQUIPMENT

General Statement.—The School of Law was established in 1899. It is a member of the Association of American Law Schools, which was organized in 1900 to set and maintain high standards of legal education, and which comprises the leading law schools of the country, membership being dependent on maintaining the standards set by the Association. Moreover, the School of Law is approved by the Council on Legal Education and Admission to the Bar of the American Bar Association.

The object of the School of Law is to provide a thorough training in the law and to prepare students for practice in any state or jurisdiction where the Anglo-American legal system prevails. Particular attention is given to the statutes, the special doctrines of law, and the rules of practice that obtain in the state of Washington. Instruction is given by use of the case system. This method of teaching law, which has been approved by experience and which is now employed in the leading law schools of the country, has the threefold merit of enabling the student to acquire a thorough and practical knowledge of legal principles, to develop the power of independent legal reasoning, and to become familiar with those processes of legal thinking which have determined the form and character of our jurisprudence, and which will govern its future development. The faculty is composed chiefly of resident professional law teachers who devote their entire time and energy to teaching. The courses in practice are taught by men experienced in practice at the Washington bar. In addition, lectures on special topics are given by distinguished lawyers and judges selected primarily from the bar of the state of Washington.

The Law Building.—The School of Law occupies the upper floor of Commerce Hall. The law library occupies the whole north end, and an idea of its roominess may be gained from its dimensions, which are, exclusive of stacks, forty by seventy feet. There is a large consultation room, twenty-five feet square, adjoining, four large lecture or recitation rooms, and a large room fitted and used exclusively for a trial court. Every convenience and improvement tending to add to the efficiency of the student, from an equipment standpoint, is present.

The Libraries.—The University law library contains 53,563 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

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School of Law

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 190,414 volumes. It is especially strong in reference works.

The Seattle public library, containing around 412,882 volumes, is open to the free use of students and is within easy distance of the campus by street car.

State and United States Courts.—The School of Law is located within a few minutes ride of both the federal and state courts sitting in Seattle. The United States District Court is in session and trying cases almost constantly, and the United States Circuit Court of Appeals for the Ninth Circuit holds a session in Seattle each autumn. The superior court for King county with thirteen departments, the justice courts, the municipal police court, and the juvenile court are in session in Seattle throughout the school year, and enable the student abundantly to witness the trial of actual cases. The Supreme Court of the State of Washington is situated within comparatively easy reach at Olympia and affords the student casual opportunity of hearing the argument of state appeals.

GENERAL INFORMATION

Quarter System.—The quarter system prevails in the School of Law. Each quarter is approximately twelve weeks in length. Credit is given usually on the basis of one credit representing a recitation or lecture one hour per week per quarter. The total hour values of courses prevailing in the schools of the Association of American Law Schools have been generally retained—e.g., courses formerly given two hours per week per semester, under the quarter system are given three hours per week per quarter.

Fees.—A general tuition fee of fifteen dollars ($15) a quarter for persons who have been domiciled in the state of Washington or territory of Alaska, for at least one year prior to date of registration, and of fifty dollars ($50) per quarter for all others, is charged in the Law School, payable at the beginning of each quarter. A law library fee of ten dollars ($10) per quarter is also charged all law students, payable at the beginning of each quarter. A diploma fee of five dollars ($5) is charged all students to whom diplomas are issued.

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

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

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

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

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

For information on other general University fees and expenses applicable to all students, see General Information section.

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
Admission and Graduation

this state. Students intending to practice in the state of Washington should consult the dean of the Law School on entering the school, and register in accordance with the rules of the State Board of Law Examiners.

Professional Standard of Minimum Training.—The following resolution was adopted by the American Bar Association, September 1, 1921. It was approved by a national conference of state and local bar associations, February 24, 1922.

“(1) The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

“(a) It shall require as a condition of admission at least two years of study in a college.

“(b) It shall require its students to pursue a course of three years' duration if they devote substantially all of their working time to their studies, and a longer course, equivalent in the number of working hours, if they devote only a part of their working time to their studies.

“(c) It shall provide an adequate library available for the use of the students.

“(d) It shall have among its teachers a sufficient number giving their entire time to the school to insure actual personal acquaintance and influence with the whole student body.

“The Council on Legal Education and Admission to the Bar is directed to publish from time to time the names of those law schools which comply with the above standards and of those which do not and to make such publications available so far as possible to intending law students.”

As stated, the University of Washington Law School is approved by the council.

Admission and Graduation

Regular Students.—Students of the College of Liberal Arts, desiring to be admitted to regular standing in the Law School, must have completed the requirements of the lower division of the College of Liberal Arts. (See Liberal Arts section, page 91). Students of the College of Science, desiring to be admitted to regular standing in the Law School, must have attained junior standing in the College of Science of this University. (See College of Science section, page 113). Students may present acceptable credits or pass examinations equivalent to these requirements. Students who are not, and cannot qualify as, Liberal Arts or Science students within the meaning of the foregoing regulations, may be admitted to the Law School upon the completion of three years' work leading to a bachelor's degree in the University of Washington or any institution ranking therewith, provided further, that such work shall meet with the approval of the dean of the Law School.

Candidates for admission to the Law School may be admitted upon presenting an official statement of graduation and degree received from an accredited institution or other credentials showing the completion of the requisite college work to the Registrar of the University of Washington, Seattle, Washington.

Special Students.—No person will be admitted as a special student in law, unless he is twenty-three years of age and his general education is such as to entitle him to take the state bar examination. Special students are admitted only in exceptional cases and never in excess of ten per cent of the entering registration.

A special student may become a candidate for a degree by complying with all the entrance requirements as above set forth in reference to regular students.
Advanced Standing.—The candidate for graduation must spend three college years in residence, either at this Law School or at some other school which is a member of the Association of American Law Schools. If in addition to satisfying the entrance requirements for regular standing in the Law School, the student has earned credits at such other law school, by regular attendance for at least one academic year of not less than eight months, he will ordinarily receive credit for such work, subject to the following restrictions: The work must equal in amount and character that required by this Law School. Not more than two years' credit will be allowed for such work. (No advanced credit for law work done elsewhere will be allowed except in accordance with the regulations of the Association of American Law Schools.) The right is reserved to refuse advanced credit in law in whole or in part, save upon examination, and credit, once given, may be withdrawn for poor work in this school. Candidates for admission with advanced standing should forward a transcript of their record in both pre-legal and law work. Candidates for a degree, with advanced standing, must spend at least one full college year in the Law School.

No credit is given for time spent in private reading or for study in a law office.

Combined Curricula in Arts or Science or Business Administration and Law.—It is possible to obtain the degrees of bachelor of arts or bachelor of science, or bachelor of business administration and bachelor of laws, in six years. The requirements of this plan are fully explained hereafter under the three-year pre-law curriculum. (See page 200).

Credit Requirements.—A minimum total of 135 hours or credits in strictly law subjects is required for completion of the law course. A student earning an average of fifteen hours or credits in each quarter can therefore qualify for graduation in nine quarters or three college years. Except upon special permission from the dean of the law school, students are limited to fifteen hours per quarter.

Students, unless they be of exceptional ability and industry, who find it necessary to devote a considerable portion of their time and energy to work not connected with their law studies are strongly advised to limit their work in the Law School to not more than twelve credit hours per quarter and thus spread the period of their study of law over four years.

A student who has failed in any course, must repeat it and obtain credit in it before graduation.

Autumn Quarter Entrance.—Students beginning the study of law cannot be registered for the full fifteen-hour course except when entering at the first or autumn quarter, and can enter advantageously only at that time.

Registration.—Students should register before the opening of the quarter, conformably to the general regulations of the University. Class-work in all subjects begins promptly on the opening day of the quarter, and those who join their classes later will necessarily be seriously handicapped in their work. No student will be admitted to classes unless he presents himself, properly registered, within one week after the commencement of the quarter.

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

Special Lectures.—Attendance upon all special lectures is required.

Practice Court Requirements.—All students in the Law School may be required to serve as jurors or witnesses in any proceedings before the practice court.
Thesis.—It is the desire of the faculty to encourage original investigation and research by students. Each candidate for a degree in June is required to prepare and deposit with the dean of the Law School, on or before May first of his senior year, a thesis of not less than thirty folios in length, on some legal topic selected by the student and approved by the faculty. It must be printed or typewritten, and is to be kept permanently in the library of the Law School. Candidates for graduation at the end of the autumn or winter quarter must deposit their theses with the dean of the Law School on or before December 1 and March 1, respectively.

Each senior expecting to be graduated in June must select his thesis subject and file his selection in writing with the dean on or before November 15 of his senior year. A senior expecting to be graduated at the end of some quarter other than the spring quarter must file his thesis subject with the dean three quarters before the time of graduation. Upon filing the selection of his subject, the student will be assigned to one of the members of the law faculty as thesis adviser and will be required to consult with his thesis adviser at regular intervals and report his progress. No thesis will be accepted by the dean as fulfilling the thesis requirement unless it has been first approved in writing by the thesis adviser, and unless all of the thesis regulations have been complied with.

Degrees.—The degree of bachelor of laws (LL.B.) will be conferred on all students who comply with the entrance and scholarship requirements for regular students stated herebefore, remain in residence in the Law School for three school years, successfully complete all the law work in the Law School, aggregating 135 credits, and comply with the rules and regulations of the faculty and board of regents of the University. Those who maintain a uniformly distinguished record for excellence in their courses will receive this degree cum laude.

Pre-Law Study

General Statement.—The prospective law student should appreciate that his efficiency as a student and his success as a lawyer depend to a large extent upon his preliminary education. The law is a specialized study demanding intellectual maturity and training at least equal to that required in other advanced university courses. To secure this preparation the University requires all candidates for degrees to have at least two years of college work prior to admission to the law school. It is to be noted, as also pointed out in the American Bar Association resolution set forth on page six, that two years is the minimum and not the maximum; the completion of four years of college work before beginning the study of law or at least taking the combined six-year course in arts or science or business administration and law is strongly recommended. Some law schools already require four years of college and a bachelor's degree for entrance.

Since the law touches every human interest, a broad general education is desirable. There are no specific subjects that must be mastered as a condition precedent to studying law, in the same sense in which a prospective student of medicine must acquire a knowledge of chemistry, physics, and biology as specific tools for the study of medicine; the law requires primarily a mind trained to precision of thought, coupled with a sufficient knowledge of the history of English and American institutions and civilization to appreciate the economic and social forces behind our legal institutions. Some subjects of pre-law study are valuable on the ground of mental discipline and training, others perhaps more on informational grounds. Examples of the first group, by no means all inclusive, are mathematics, ancient and modern languages, natural and physical science; examples of the second group are English and American history, ancient and modern history, and studies of a similar nature. The object of a pre-legal education is usually best attained by the student's following his strongest interest,
since that procedure ordinarily will result in the largest mental development, but he should at the same time guard against a too narrow range of intellectual pursuits. Generally speaking, in view of the exacting requirements of a lawyer's work, his position in the community, and the best traditions of the profession, the prospective law student should select subjects promotive of precision of thought, breadth of knowledge, and general culture.

**Pre-Law Curriculum—Two-Year Course in Liberal Arts or Science**

*Admission.*—To be admitted from the College of Liberal Arts to regular standing in the Law School, students who are candidates for the LL.B. degree only must have earned 90 credits (a normal two years' work) and have completed the requirement of the lower division prescribed for the College of Liberal Arts. (See College of Liberal Arts section, page 98). To be admitted from the College of Science to regular standing in the Law School students who are candidates for the LL.B. degree only must have earned 90 credits (a normal two year's work) and completed the requirements prescribed for the attainment of junior standing in the College of Science. (See College of Science section, page 107).

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

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

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

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

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

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

Anthropology 51.
Astronomy 1.
Liberal Arts 1, 11.
Latin 1-2, 3, 4, 5, 6.
Business Administration 1, 2.
Business Administration 15, 16.
Business Administration 65.
Sociology 1.
English 40.

English 51, 52, 53.
English 54, 55, 56.
English 64, 65, 66.
English 73, 74, 75.
Political Science 1.
Political Science 118.
Political Science 119, 120.
History 105, 106, 107.
History 108, 109, 110.

Liberal Arts Pre-Laws.—Experience shows that many students, because of their selection of courses in the high school, do not meet the requirements for clear entrance in the Colleges of Liberal Arts or Science. Particularly is this true of the foreign language requirement in which two years' work is required in the high school. In the event no foreign language has been taken in the high school, 20 credits in one foreign language must be taken in the University, except that 15 credits in beginning Latin (Latin 1, 2, and 3) will satisfy this deficiency. Latin should be taken when possible. No university credit is allowed for clearing the deficiency in foreign language.

Three years' work in English is required for entrance to the University and the student must register for English 1 and 2 in the University. These courses should be registered for in the first and second quarters, or as soon thereafter as available.

Among the required courses in the lower division of the College of Liberal Arts are some which may have been taken in the high school, but in the event they have not, they must be taken in the University. If taken in the University, credit is, of course, given, the only effect being to cut down the student's number of electives. If U.S. history has not been taken in the high school the student must take History 57, 58, and 59 in the University. If U.S. History has been taken, but civics not taken, the student must take Political Science 1 in the University. In addition to the U.S. history requirement, one year of other history must have been taken in the high school or the student will be obliged to take two quarters (10 credits) in the University. History 1 and 2 are recommended. When these requirements are met, either in the high school or the University, all pre-law students are strongly urged, in addition thereto, to take History 105 and 108, and their sequences, throughout their sophomore year. These courses combined, fill the 10 o'clock period for the year, and therefore the student is advised during his first year to so register as to leave this period free. These courses are open to pre-law sophomores.

The student must have had either physics or chemistry one year in the high school, or take two quarters (10 credits) in either one or the other of them in the University. He must also have had botany or geology or zoology, one year in the high school, or taken two quarters (10 credits) in some one of them in the University. Experience shows that many students have not had both of the science groups. As they are laboratory courses and require two quarters' work, it is advisable to register for them as soon as available, because of possible conflict with other required courses. Courses offered in the high school as general biology will not satisfy the requirement for the second group, but where such courses consist substantially of one-half year each of botany and zoology, five hours of additional credit in one or the other will satisfy.
In the event the student has not had three years of an ancient foreign language (Greek or Latin) in high school, or its equivalent in the University, he must take two quarters (10 credits) in ancient life and literature. These courses are given under the titles of Greek and Latin, but in fact, are courses in the English language dealing with Greek and Latin life and literature. They are therefore required of all students who have had only a modern language and should also be taken by students who have had two years only of Greek and Latin and feel that they have lost touch with same. Otherwise the latter are advised to continue with their Greek or Latin and in the event they have taken Latin 1, 2, and 3, they are urged to continue with Latin 4, 5, and 6.

As to the subjects required in the first two years of the University: they are divided into four groups. Physical education or military science is required of all students. Five credits are required in philosophy. Philosophy 1, 2, 3 or 5, or any two or three of these courses may be advantageously taken. Courses in philosophy must not be registered for during the first year, and they may be postponed until the junior year, if the student contemplates a three-year pre-law course. Psychology 1 is required. Two quarters or ten credits in any one or combination of two of the following subjects are required: Economics, political science or sociology. Obviously, all are important as a background for the proper study of law, and course 1 in each, at least, should be taken.

College of Science Pre-Laws.—The foregoing suggestions as to Liberal Arts Pre-laws apply generally to Science Pre-Laws with the following exceptions: The student in science must have or acquire in the secondary school or university, mathematics, geology or astronomy, 1 year or 10 credits; chemistry, 1 year or 10 credits; physics, 1 year or 10 credits; and botany or zoology, 1 year or 10 credits. His required subjects in the University include economics, history, language and literature, philosophy, political science, psychology, sociology, 20 credits, but only 10 credits will be counted in any one of these subjects. It will be noted, therefore, that the student has 2 additional science requirements, as compared with the Liberal Arts requirement. He must have both chemistry and physics and one year or 10 credits of mathematics, geology, or astronomy. He is not, however, required to take any classical language in addition to his two years of foreign language, and in his requirements in the University, may select 20 credits among any of the subjects just above listed, limited, however, to 10 credits in any one subject.

PRE-LAW CURRICULUM—THREE-YEAR COURSE IN LIBERAL ARTS OR SCIENCE OR BUSINESS ADMINISTRATION

Combined Six-Year Course in Arts or Science or Business Administration and Law.—It is possible to obtain the degrees of bachelor of arts or bachelor of science or bachelor of business administration and bachelor of laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the two-year pre-law course, with the additions hereafter stated. To have the benefit of this combined course, students must maintain a uniformly good record and must, in the first three years in their respective colleges, earn 144 credits, together with the 10 credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Service, if necessary. At the beginning of the fourth year, if a student has earned 144 credits, and 10 credits of required military science or physical education, he may enter the
Pre-Law Curriculum

School of Law and there earn 36 credits which will be counted toward his bachelor of arts or science or business administration degree. He will be granted the bachelor of arts or science or business administration degree at the end of the fourth year, or as soon as he completes the required work above specified and 36 credits in the School of Law, making a total of 190 credits for graduation in liberal arts or science or business administration. The degree of bachelor of laws will be conferred upon completion of his work in the Law School. In exceptional cases where the student lacks part of the 144 liberal arts or science credits, the dean of the Law School may, upon written petition, permit registration in the Law School, the necessary credits to satisfy the combined degree to be completed subsequently.

Selection of Major.—In the 144 credits of arts or science or business administration must be included a major of at least 36 credits, together with all the specific requirements of the respective colleges. At least one-half (18) of the credits in the major must be earned in upper division courses. The major must be selected by the student taking the combined six-year course upon acquiring junior standing (which is usually at the commencement of his third year of liberal arts or science or business administration study), pursuant to the regulations relating to majors prescribed for the Colleges of Liberal Arts or Science or Business Administration. (See sections relating to those colleges). Any of the majors there enumerated may be profitably pursued by pre-law students.

Upper Division Courses.—As one of the requirements for the bachelor of science or bachelor of arts is 60 credits earned in upper division courses, (courses numbered above 100), and as the 36 credits of law, which in the combined arts or science and law course may be counted towards this degree, are all upper division credits, it follows that at least 24 of the 144 referred to must also be in the upper division courses.

Transfer Pre-Law Students.—Students from other institutions entering this University with advanced standing may take advantage of this combined six-year course, provided they are registered in the Colleges of Liberal Arts, Science or Business Administration, 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 graduates attempting to graduate in two years, nor to undergraduates of other colleges who enter this University with the rank of senior.

PRE-LAW CURRICULUM—OTHER WORK LEADING TO BACHELOR’S DEGREE

General Statement.—Students who are not, and cannot qualify as, Liberal Arts or Science students within the meaning of the foregoing regulations, may be admitted to the Law School upon the completion of not less than three years’ work leading to a bachelor’s degree in the University of Washington, or any institution ranking therewith, provided further, that such work shall meet with the approval of the dean of the Law School.

SUMMER SCHOOL

General Statement.—Courses are offered each summer by the Law School for both beginning and advanced students. Different courses, later to be announced, are offered successive summers. This work counts toward a degree as a part of the regular instruction of the Law School.

MISCELLANEOUS INFORMATION

Washington Law Review.—The Washington Law Review is a legal publication issued quarterly during the year under the direction of the law
faculty with the assistance of a student board of twelve to fifteen members chosen from the ablest students in the Law School. The Review serves as a medium of expression for the legal scholars of Washington and elsewhere, and is devoted particularly to the interpretation, advancement, and harmonious development of the law. The Review contains scholarly articles by judges and lawyers and discussions of important recent court decisions by students in the Law School, based on thorough research. A place on the student editorial board is one of the goals of every earnest law student, and the experience is invaluable to him in his later professional life.

The Order of the Coif.—The Order of the Coif is a national honorary legal society with a chapter at this Law School. The order has for its purpose the encouragement of scholarship and the advancement of the ethical standards of the legal profession. Membership in the order is dependent entirely upon the attainment of high scholastic standing. Each chapter annually elects from the senior law class a number of persons, not exceeding ten per cent of the class, ranking highest in scholarship; provided, that any person whose character unfit him for membership in the Order may be rejected.

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

The Jaggard Prize.—Miss Anna Wright Jaggard, daughter of the late Edwin Ames 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.

Instruction in Other Departments.—Law students may elect studies, for which they are prepared, in other departments of the University without charge, except that in laboratory courses the usual laboratory deposits will be required; provided, that such election does not interfere with their law studies. Before registering in other departments, the student must obtain written permission from the dean of the Law School.

Inquiries

General Statement.—Further particulars as to any phase of the work of the Law School not given herein, or in the General Information section, will be cheerfully given upon request. Communications addressed at any time to the Dean of the Law School, University of Washington, Seattle, Washington, will receive prompt attention.

Courses of Study

For description of courses offered by the School of Law, see Departments of Instruction section.
COLLEGE OF MINES

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern). President of the University

Thomson, David, B.A. (Toronto) ........................................ Dean of Faculties

Padelford, Frederick Morgan, Ph.D. (Yale) ..................... Assistant Dean of Faculties

THE FACULTY, 1928-29

Roberts, Milnor, A.B. (Stanford) .......... Professor of Mining Engineering and Metallurgy; Dean of the College of Mines

Daniels, Joseph, M.S. (Lehigh) .............. Professor of Mining Engineering and Metallurgy

Wilson, Hewitt, C.E. (Ohio State University) ................................ Professor of Ceramics

Corey, Clarence Raymond, E.M. (Montana State School of Mines), A.M. (Columbia), Assistant Professor of Mining Engineering and Metallurgy

Powell, Frederick, E.M. (Columbia) ......................... Lecturer on Gold Dredging

Shoning, John G. ............... Foreman Miner in charge of Mine Safety Station, U.S. Bureau of Mines

Herlick, Jared A. ................................................ Assistant in Mining

---

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

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

Osborn, Frederick Arthur, Ph.D. (Michigan) ..................... Professor of Physics

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

Magnusson, Carl Edward, Ph.D. (Wisconsin) ................................ Professor of Electrical Engineering and Dean of the College of Engineering

Eastman, G. Everett Owen, C.E., A.M. (Virgins), S.B. (Massachusetts Institute of Technology) ........ Professor of Mechanical Engineering

Hall, David Connolly, B.S., M.D. (Chicago) ........ Professor of Hygiene

More, Charles Church, M.S., C.E. (Lafayette), M.C.E. (Cornell) ........ Professor of Structural Engineering

Wilson, George Samuel, B.S. (Nebraska) ............ Professor of Mechanical Engineering

Harris, Charles William, C.E. (Cornell) ............ Professor of Hydraulic Engineering

Loew, Edgar Allen, E.E. (Wisconsin) .............. Professor of Electrical Engineering

Carpenter, Allen Fuller, Ph.D. (Chicago) ................ Professor of Mathematics

Tartar, Herman Vance, Ph.D. (Chicago) .............. Professor of Chemistry

Milliman, Loren Douglas, A.B. (Michigan) ..................... Associate Professor of English

Brakel, Henry Louis, Ph.D. (Cornell) .................. Associate Professor of Engineering Physics

Gavett, George Irving, B.S. (C.E.) (Michigan) .......... Associate Professor of Mathematical Goodspeed, George Edward, S.B. (Massachusetts Institute of Technology) ........ Associate Professor of Geology

Schaller, Gilbert Simon, B.S. (Illinois), M.B.A. (Washington) ........ Assistant Professor of Shop Engineering

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ADVISORY BOARD OF COLLEGE OF MINES

UNIVERSITY OF WASHINGTON

White, Eugene A. .................. Metallurgist, Superintendent Tacoma Smelter

Tacoma.

Erikson, John ...................... Mine Operator

Erikson Building, Seattle.

Fosseen, A.B. .................. President and General Manager Washington Brick, Lime and Reuer Pipe Co.

Spokane.

Heffernan, J. T. ................ President of the Heffernan Engine Works, Mine Operator

108 Railroad Avenue South, Seattle.

Hussey, Charles .................. General Manager of Estate of John A. Finch, Mine Operator

Empire State Building, Spokane.

MacMichael, Paul S. ............... Northern Manager and Vice-President Gladding-McBean Co.

Dexter Horton Building, Seattle.

Rust, W. R. .................. Founder of the Tacoma Smelter, President of Tacoma Exploration Company

Rust Building, Tacoma.

Moore, Nathaniel D. .................. General Manager Pacific Coast Coal Company

Seattle.

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STAFF OF NORTHWEST EXPERIMENT STATION

UNITED STATES BUREAU OF MINES, DEPARTMENT OF COMMERCE

Bird, Byron Matthew, B.S. (Met.E.) (Washington) .................. Supervising Engineer

Yancey, Harry Fugan, Ph.D. (Illinois) .................. Associate Chemist

Johnson, Kenneth A., B.S. (Washington) .................. Junior Chemist

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Degrees.—The College of Mines offers specialized training in mining engineering, metallurgy, and ceramics. The four-year curricula lead to degrees as follows:

I. Bachelor of science in mining engineering, B.S. (Min.E.)
II. Bachelor of science in geology and mining, B.S. (Geol. and Min.)
III. Bachelor of science in metallurgical engineering, B.S. (Met.E.)
IV. Bachelor of science in coal mining engineering, B.S. (Coal Min. E.)
V. Bachelor of science in ceramic engineering, B.S. (Cer.E.)

The degree of engineer of mines (E.M.) is given to graduates in mining engineering who have practiced their profession for at least three years and who present a satisfactory thesis. Graduates in metallurgy may receive the degree of metallurgical engineer (Met.E.) under similar conditions, and the appropriate advanced degrees are also open to graduates of other curricula.

Mining and Metallurgical Industries Available for Study.—Mining machinery of many kinds is in operation within easy reach of the University. Much of the heavy mining machinery used in the neighboring states and Alaska is built in Seattle, while patented machines, such as drills and concentrating tables, are kept in stock and as working exhibits by the firms that supply the North Pacific coast regions. More than 40 eastern firms dealing in mining equipment make their Seattle branches the distributing center for the Pacific Northwest, British Columbia and Alaska. Methods important to the mining engineer are illustrated in Seattle by the operations of the steam shovels, excavators which are largely used in iron and copper mining. The engineers in charge of these plants have given the mining students every opportunity to become familiar with the methods of planning and carrying on the work, and the same statement applies to the mine operators throughout the state.

Other available works of interest include coal mines and coke ovens, with the largest production west of the Rocky mountains; gold, silver, copper, lead, magnesite, and diatomite mines; large cement plants, several stone quarries and dressing works; clay mines, clay terra cotta and pottery works, gravel and sand pits with large production and modern methods; a region of varied geology with many economic minerals; the Tacoma smelter and refineries; the U.S. assay office; the Northwest Lead works; the West Seattle steel plant of the Pacific Coast Steel Co., numerous foundries, and plants engaged in electro-metallurgical work.

Instruction for Coal Mining Men.—Miners taking the rescue training also receive instruction in the College of Mines on the subjects of mine gases, explosions, and the origin and distribution of Pacific Coast and Alaska coals. Laboratory experiments are carried on to show the methods of analyzing coals and determining the uses to which they can be put. The methods of testing for permissible explosives at the Pittsburgh station and the safe methods of charging, tamping, and firing are explained. Coal men interested in the washing of coals are given full practice with the several types of apparatus used for this purpose.

Labs.—For description of mining, metallurgical and ceramic laboratories, see page 45.

The purpose of this department is to encourage development in the mining, metallurgical, and ceramic industries of Washington, the Pacific Northwest and Alaska by research in the special problems presented, and to solve the problems through the efforts of fellowship holders and others studying in the department.

Graduates from suitable technical courses at institutions of recognized standing, or men who present evidence of technical training which has fitted them to undertake investigations, are eligible to enroll in mining and metallurgical research. The degree of master of science may be granted students
Fellowships

holding suitable bachelor of science degrees who complete investigative work in compliance with the University requirements for the master's degree. Although as much latitude as possible will be allowed in the choice of subjects for research, the general topics will be those of special importance to this region.

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

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

Appointees to the fellowship report for duty on July 1, and are required to be on duty the entire year except that in case of reappointment for a second year, the fellowship holder is given a vacation from June 15 to July 1.

For the year 1928-1929 the following subjects have been selected for investigation: 1. Coal. (a) Beneficiation: Coal washing. Application of ore dressing principles to cleaning of coal; (b) Utilization: Briquetting of low grade coals and other utilization problems.

2. Non-Metallic Materials. (a) Purification: Washing of kaolin and ochres; (b) Problems in drying certain non-metals; (c) Efficiency studies in kiln-heating.

Arthur A. Denny Fellowship.—To encourage graduate work a fellowship of $500 annual value is open to students in the College of Mines who are residents of the state of Washington. It is awarded for scholastic excellence and general merit, but only to students who need financial assistance. Applications must be made to the Dean of the College before March 15 preceding the academic year for which the fellowship is to be granted.

Investigations of Problems.—Under certain conditions, the University will permit mining, metallurgical, and ceramic companies who have special problems for solution, to detail a representative to work on such problems, or to meet the expense of engaging a man to do so. Experiments which can be carried on as readily in commercial laboratories and which do not require direction from the College's experts are not undertaken. The research is done under the direction of the department, and complete records of all the data obtained are filed with the department, which reserves the right to publish this information for the benefit of the mining, metallurgical and ceramic industries.

MINING SOCIETY

The Mining Society, affiliated with the American Institute of Mining and Metallurgical Engineers, has a membership composed of all students in the college. At the weekly meetings of the society addresses are made by prominent mining engineers, and papers descriptive of their summer work are presented by the student members.

Requirements for Admission

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.
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 53.

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.

SPECIAL REQUIREMENTS FOR THE COLLEGE OF MINES

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 ........................................ 1 unit
- Solid geometry ........................................... 1 unit
- Physics .................................................... 1 unit

If the student has not included these subjects in his high school elections, it will be necessary for him to include them among his elections in college.

CURRICULA OF THE COLLEGE OF MINES

MINING ENGINEERING (OPTION I)

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 51</td>
<td>4</td>
<td>Mathematics 52</td>
<td>4</td>
<td>Mathematics 53</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1 or 21</td>
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<td>Chemistry 2 or 22</td>
<td>5</td>
<td>Chemistry 23</td>
<td>5</td>
</tr>
<tr>
<td>Mil. Sc. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sc. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sc. or Phys. Ed.</td>
<td>1½</td>
</tr>
</tbody>
</table>

SECOND YEAR

| Mathematics 61 | 3       | Mathematics 62 | 3       | English 100 | 3       |
| Physics 97 | 5       | Physics 98 | 6       | Physics 99 | 5       |
| Geology 21 | 5       | Geology 1a | 3       | Geology 123 | 3       |
| Mining 51 | 3       | Geology 1b | 2       | Chemistry 111 | 5       |
| Mil. Sc. or Phys. Ed. | 1½   | Mining 62 | 3       | Mil. Sc. or Phys. Ed. | 1½ |

*Mining Practice in Summer Vacation.

THIRD YEAR

| Civil Engineering 181 | 8       | Civil Engineering 182 | 8       | Geology 122 | 2       |
| Geology 120 | 3       | Electrical Eng. 101-102 | 6       | Electrical Eng. 121-122 | 6       |
| Mining 101 | 3       | Geology 124 | 4       | Metallurgy 102 | 6       |
| Metallurgy 101 | 5     | Metallurgy 103 | 3       | Mining 106 | 1       |
| Mechanical Eng. 54 | 1       | Elective | 2       |               |         |

FOURTH YEAR

| Mining 151 | 3       | Mining 192 | 2       | Mining 107 | 1       |
| Mining 101 | 3       | Mining 102 | 4       | Mining 152 | 5       |
| Metallurgy 155 | 3     | Geology 127 | 5       | Mining 183 | 1       |
| Metallurgy 162 | 2     | Mining 106 | 1       | Mining 182 | 3       |
| Electives | 3       | Electives | 3       | Electives | 4       |
| Pol. Sci. 101 | 2     |               |         |               |         |

*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.
### Curricula

#### GEOLOGY AND MINING (OPTION II)

##### FIRST YEAR
(SAME AS FOR OPTION I)

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>3</td>
<td>Geology 4</td>
<td>3</td>
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<tr>
<td>Physics 97</td>
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<td>5</td>
<td>Physics 99</td>
<td>5</td>
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<tr>
<td>Geology 21</td>
<td>5</td>
<td>Geology 1a</td>
<td>3</td>
<td>Geology 123</td>
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<tr>
<td>Mining 51</td>
<td>3</td>
<td>Geology 1b</td>
<td>2</td>
<td>Chemistry 111</td>
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<tr>
<td>Mil. Sc. or Phys. Ed.</td>
<td>1½</td>
<td>Mining 52</td>
<td>3</td>
<td>Mil. Sc. or Phys. Ed.</td>
<td>1½</td>
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##### SECOND YEAR

<table>
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<tr>
<th>Civil Engineering 131</th>
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<tr>
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<td>2</td>
</tr>
<tr>
<td>Mining 101</td>
<td>3</td>
<td>Metallurgy 105</td>
<td>4</td>
<td>Metallurgy 102</td>
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<td>5</td>
<td>Mining 106</td>
<td>1</td>
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<tr>
<td>Mechanical Eng. 54</td>
<td>1</td>
<td>Electives</td>
<td>1</td>
<td>English 100</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Electives</td>
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‡MINING PRACTICE IN SUMMER VACATION.

##### FOURTH YEAR

<table>
<thead>
<tr>
<th>Mining 151</th>
<th>3</th>
<th>Mining 192</th>
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</thead>
<tbody>
<tr>
<td>Mining 101</td>
<td>2</td>
<td>Mining 142</td>
<td>4</td>
<td>Mining 152</td>
<td>5</td>
</tr>
<tr>
<td>Metallurgy 162</td>
<td>2</td>
<td>Geology 127</td>
<td>5</td>
<td>Mining 105</td>
<td>1</td>
</tr>
<tr>
<td>Geology 126</td>
<td>3</td>
<td>Mining 103</td>
<td>1</td>
<td>Electives</td>
<td>7</td>
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<td>Pol. Sci. 101</td>
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#### METALLURGICAL ENGINEERING (OPTION III)

##### FIRST YEAR
(SAME AS FOR OPTION I)

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<tr>
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<tr>
<td>Mining 51</td>
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<td>Geology 1b</td>
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##### SECOND YEAR

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<td>Mining 106</td>
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<td>Metallurgy 153</td>
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<td>Geology 120</td>
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‡MINING PRACTICE IN SUMMER VACATION.

##### FOURTH YEAR

<table>
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<th>Mining 151</th>
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<td>Geology 127</td>
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<td>Metallurgy 166</td>
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<td>Mining 103</td>
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<td>Electives</td>
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#### COAL MINING ENGINEERING (OPTION IV)

##### FIRST YEAR
(SAME AS FOR OPTION I)

<table>
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<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
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College of Mines

THIRD YEAR

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<th>Credits</th>
<th>Spring Quarter</th>
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<td>Mechanical Eng. 83</td>
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<td>Metallurgy 103</td>
<td>4</td>
<td>Mining 106</td>
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‡Mining Practice in Summer Vacation.

FOURTH YEAR

| Mining 151 | 3       | Mining 192 | 2       | Mining 107 | 1       |
| Mining 101 | 2       | Mining 171 | 3       | Mining 193 | 1       |
| Metallurgy 165 | 3     | Mining 176 | 5       | Mining 182 | 3       |
| Mining 170 | 3       | Mining 103 | 2       | Mining 178 | 2       |
| Mechanical Eng. 84 | 1     | Electives | 3       | Electives | 7       |
| Electives | 1       | Pol. Sci. 101 | 2       |           |         |

CERAMIC ENGINEERING (OPTION V)

FIRST YEAR
(Reason as for Option I)

SECOND YEAR

| Mathematics 61 | 3       | Mathematics 62 | 3       | Ceramics 90 | 3       |
| Physics 97 | 5       | Physics 98 | 5       | Ceramics 90 | 5       |
| Geology 21 | 5       | Geology 1a | 3       | Physics 123 | 3       |
| Mining 51 | 3       | Geology 1b | 2       | Geology 111 | 5       |
| Mil. Sci. or Phys. Ed., 1½ | 1%   | Mil. Sci. or Phys. Ed., 1½ | 1%   | Ceramics 101 | 3       |
| Ceramics 100 | 3       | Ceramics 101 | 3       | Ceramics 102 | 3       |
| Ceramics 104 | 3       | Ceramics 106 | 3       | Ceramics 110 | 2       |
| Civil Engineering 131 | 3    | Civil Engineering 132 | 3       | English 100 | 3       |
| Mining 101 | 3       | Metallurgy 103 | 3       | Metallurgy 102 | 5       |
| Chemistry 181 | 5     | Chemistry 182 | 5       | Mining 106 | 1       |

THIRD YEAR

| Ceramics 122 | 5       | Ceramics 123 | 5       |                 |         |
| Mining 191 | 3       | Mining 192 | 3       | Mining 107 | 1       |
| Electives | 5       | Metallurgy 103 | 4       | Mining 193 | 2       |
| Pol. Sci. 101 | 2     | Mining 103 | 1       | Electives | 7       |

FOURTH YEAR

| Ceramics 121 | 5       | Ceramics 122 | 5       |                 |         |
| Mining 191 | 3       | Mining 192 | 3       |                 |         |
| Electives | 5       | Metallurgy 103 | 4       |                 |         |
| Pol. Sci. 101 | 2     | Mining 103 | 1       |                 |         |

Courses of Study

For description of courses offered by the College of Mines, see Department of Instruction section.

‡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

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) ........................................... President of the University
Thomson, David, B.A. (Toronto) ......................................................... Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ........................................... Assistant Dean of Faculties

THE FACULTY, 1928-1929

Johnson, Charles Willis, Ph.C., Ph.D. (Michigan) .................. Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy, and State Chemist
Lynn, Ridin Verne, B.A. (Washington), Ph.D. (Wisconsin) .................. Professor of Pharmacology and Chemistry
Langenhan, Henry August, Ph.G. (Illinois), Ph.D. (Wisconsin) .......... Professor of Pharmacy
Goodrich, Forest Jackson, Ph.C., Ph.D. (Washington) .............. Assistant Professor of Pharmacy and Natura Medica
Lofgren, Frederick V., Ph.C., M.S. (Washington) ....................... Instructor in Pharmacy
Salter, Harriet V., Ph.G., B.S. (Oregon A.C.), M.S. (Washington) ....... Instructor in Pharmacy

 downgrade

PadeJford, Frederick Morgan, Ph.D. (Yale) .................. Professor of English and Dean of the Graduate School
Osborn, Frederick Arthur, Ph.D. (Michigan) ......................... Professor of Physics
Frein, Pierre Joseph, Ph.D. (Johns Hopkins) ......................... Professor of Romance Languages
Weinstein, John, Dr.P.H. (Harvard) ............................................. Professor of Bacteriology
Ayer, Leslie J., J.D. (Chicago) .................................................. Professor of Law
Cox, William E., A.M. (Texas) .............................................. Professor of Business Administration; Dean of the College of Business Administration
Rigg, George Burton, Ph.D. (Chicago) ....................................... Professor of Botany
Eckelmann, Ernest Otto, Ph.D. (Heidelberg) .................. Associate Professor of German
Smith, Eli Victor, Ph.D. (Northwestern) ......................... Associate Professor of Zoology

SPECIAL ANNOUNCEMENT

Discontinuance of Three-Year Courses in 1930

In the interest of better trained pharmacists in the State of Washington, the University of Washington College of Pharmacy has decided to discontinue the three-year course for students entering the college year of 1930-31. The Washington State College School of Pharmacy, Pullman, Washington, the North Pacific College of Oregon, School of Pharmacy, Portland, Oregon, and the Oregon State Agricultural College School of Pharmacy, Corvallis, Oregon, unite with this college in making the four-year curriculum the minimum course of study beginning with 1930. The Pacific Northwest Colleges of Pharmacy are united, therefore, in taking this very important step. The degree of bachelor of science will continue to be conferred on students completing any of the four-year curricula in pharmacy at the University. Students will continue to be admitted to the three-year course for the school years 1928-29 and 1929-30.

(209)
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 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 pharmacy. A three-year graduate must have one year of practical experience.

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 per cent in any one subject and a general average of 70 per cent.

6. Persons who register by examination in the State of Washington can become registered in forty-three other states of the Union without further examination. Graduates of the University of Washington College of Pharmacy are urged to register by passing the examination as listed in paragraph five so they may have the privilege of reciprocal registration in other states without examination.

7. A registered pharmacist must be over twenty-one years of age. Persons under twenty-one shall be classified as assistant registered pharmacists until the age of majority is attained.

8. Persons registered by examination in other states may register as a pharmacist in Washington without examination other than in the subject of laws relating to the practice of pharmacy in the
state of Washington, providing such persons are graduates of recognized colleges of pharmacy.

9. Recognized colleges of pharmacy (see rule 10 of handbook on pharmacy law issued by the state department of licenses) are such colleges as hold membership in the American Association of Colleges of Pharmacy and such foreign colleges of pharmacy as meet the standards and requirements of the American Association of Colleges of Pharmacy.

10. Applicants for registration as a pharmacist should communicate with the state department of licenses, Olympia, Washington, for proper blanks and instructions. A fee of ten dollars for registration is payable to the state treasurer.

Higher Standards in Pharmacy.—The minimum course of study in the College of Pharmacy is Three Years. The aim of the course is to give thorough scientific training for retail pharmacists; if the student desires, he may elect certain studies in the College of Business Administration that will better fit him for the business side of retail pharmacy.

Retail pharmacy is recognized both as a profession and a business. The College of Pharmacy desires to meet these two conditions as far as possible. Special attention is given to a thorough scientific training for the compounding and dispensing of drugs and medicines. Such business training will be included as time will permit in the three-year course. Students desiring further business training can complete in one year more, the four-year combined scientific and business course. In this four-year course the student receives training in economics, psychology, business law, accounting, advertising, salesmanship and business management, useful in the every day life of the retail pharmacy.

Students desiring more extensive training in scientific pharmacy may complete the three-year course by including advanced work in prescriptions, manufacturing pharmacy, toxicology, physiological chemistry and bacteriology. Graduates of this course are trained for positions in strictly prescription stores and for work in clinical diagnosis.

Graduates of the four-year scientific courses are trained for positions as expert laboratory workers in State and Federal laboratories, bacteriologists for physicians, city boards of health, and for State and Federal laboratories, manufacturing pharmacists for large pharmaceutical houses, and as teachers in colleges of pharmacy.

It should be noted that the college sets a high standard for pharmaceutical training and that a number of opportunities are open to graduates who take the time to prepare themselves thoroughly 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 15 of this bulletin. Students completing this course receive both the Ph.C. and B.S. degrees at the end of the four-year course. Pharmaceutical training is an excellent preparation for medicine. It gives the student a knowledge of drugs and medicines that can be obtained in no other way and the graduate in pharmacy who completes medicine has the benefit of the two professions.

American Association of Colleges of Pharmacy.—The College of Pharmacy is a member of the American Association of Colleges of Pharmacy. The objects of the association are: to promote closer relations between the several colleges of pharmacy of the United States, to standardize pharmaceutical education and to encourage a higher standard of proficiency for members of the profession.
Garden of Medicinal Plants.—The College of Pharmacy maintains on the campus a garden in which plants of pharmaceutical importance are cultivated. The area and scope of this garden have been gradually extended, until the college has a complete collection of medicinal plants which furnishes valuable material for classes in botany, materia medica and drug assay, and for research.

Service to Pharmacists of the State.—It is the desire of the college to render every possible service to pharmacists of the state. We therefore invite the pharmacists to write us in regard to their prescription difficulties and manufacturing problems. Many pharmacists are now availing themselves of this privilege, and it is our wish to extend this service to the entire profession. Send your prescriptions and problems with a history of difficulties encountered to Professor H. A. Langenhan, who is in charge of practical pharmacy courses in the College of Pharmacy.

Food and Drug Analysis.—Enactment of the Food and Drug Act by Congress, and of similar legislation by most of the states (Washington included), has given great importance to pharmaceutical education. It is at once apparent that knowledge of drugs is equally important with chemistry in the administration and enforcement of this legislation. The graduate in chemistry is not wholly qualified to act as a food and drug inspection chemist for the government, states, private individuals, and corporations, if he is not trained in those subjects included in the collective name of pharmacy. These allied subjects are: Theory and practice of pharmacy, manufacturing pharmacy, drug assaying, pharmaceutical botany, study of the United States Pharmacopoeia and National Formulary, pharmacognosy, materia medica and therapeutics, etc. A great many pharmaceutical chemists are needed to carry out the analytical processes involved in the enforcement of this legislation, but the number of men adequately trained is very limited. Students with high school training are urged to consider these opportunities and to prepare themselves for such positions. The dean of the College of Pharmacy is chemist for the Washington State Department of Agriculture and is in close touch with government food and drug work. Courses are offered fitting the student for this line of work.

Women in Pharmacy.—Opportunities for women in pharmacy are as great as for men. Women are finding a place in retail pharmacy, and as hospital pharmacists, and are becoming noted for the satisfaction they give in both the scientific and business side of the average drug store. Women graduates of the four-year course are giving excellent satisfaction as food and drug chemists, bacteriologists and as teachers in colleges of pharmacy.

The Arthur A. Denny Fellowship.—The College of Pharmacy is indebted to the Arthur A. Denny estate for a fellowship that pays $500 a year to the student selected for this honor. The fellowship is granted each year to a graduate of the four-year course in pharmacy. The graduate is selected on the basis of excellence in scholarship and promise of ability to do research work in some subject of pharmaceutical importance.

The Skagit Valley Goldenseal Farm Fellowship.—A research fellowship of $500 is offered for study in drug plant cultivation. This fellowship is granted each year to a graduate of the four-year course in pharmacy who will work for an advanced degree.

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 1927-28 were Stewart & Holmes Drug Company, branch houses of Parke, Davis & Co., H. K. Mulford Company
Curricula

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 46.

Library Facilities.—A branch of the University library containing books and current publications on pharmacy and chemistry is maintained in the science reading room to the general library. Many rare old books relating to the development of pharmacy and of Pharmacopoeias have been added recently.

Requirements for Admission

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

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 53.

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.

Admission by Examination

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

Entrance Examinations

Entrance examinations are held at the registrar's office on the following dates: July 18, 19, 20, 1928; September 19, 20, 21, 1928; and December 19, 20, 21, 1928; March 18, 19, 20 1929; June 12, 13, 14, 1929; and July 22, 23, 24, 1929. For further information see page 56.

Foreign Students

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

Students from foreign schools whose standing is not known to be the equivalent of accredited American schools may be required to pass examinations in designated subjects. A special orientation course is offered for which a special fee of ($20) twenty dollars is charged. This may be required of students who are found to need this special training. (See page 57.)

*Three-fourths after September, 1929.
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 in 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 Graduate School section should be consulted for information concerning graduate degrees.

CURRICULA REQUIRED FOR GRADUATION

1. A three-year course which prepares its graduates for responsible positions as practical pharmacists. The first two years of all courses are the same. At the beginning of the third year the student must select the type of training he wishes for the next one or two years. Opportunity is given to specialize in advanced prescription and manufacturing pharmacy, business courses including economics, business law, accounting, business report writing, advertising, salesmanship, income tax problems, etc., food chemistry, advanced materia medica and medicinal plant cultivation, advanced pharmaceutical chemistry, toxicology and clinical diagnosis, bacteriology, and other pre-medical subjects.

2. A four-year scientific course which offers well-rounded scientific and liberal training. Graduates of this course are prepared for positions as (a) practical and manufacturing pharmacists; (b) teachers in colleges of pharmacy; (c) food and drug inspection chemists and bacteriologists in the United States Civil Service; (d) pharmaceutical journalism.

3. A four-year combined scientific and business course which includes the regular pharmacy work of the three-year course together with advanced training in pharmacy, and courses in the College of Business Administration and Schools of Journalism and Law which insure the student a thorough business training. Special attention will be given to courses in business law, advertising, accounting, salesmanship, insurance, money and banking and business organization. This course is designed to produce well trained men for either retail or wholesale pharmacy.

4. A four-year pharmacy course which includes all of the required work of the three-year course in pharmacy and such subjects as will give the graduate clear entrance to medical schools. A student completing this course and a course in medicine has the benefit of training in the two professions. The two degrees Ph.C. and B.S. are given at the completion of this course.

5. A five-year course offers opportunity to the four-year graduate to do graduate and research work in some line of scientific pharmacy and
graduate work in some branch of allied science. Graduates of this course are prepared for responsible positions in many different lines of work.

1. **WITH DEGREE OF PHARMACEUTICAL CHEMIST. (Three-Year Course.)**

### FIRST YEAR

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<th>Spring Quarter</th>
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<td>Pharmacy 2</td>
<td>5</td>
<td>Botany 14</td>
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<tr>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
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</tbody>
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### SECOND YEAR

| Pharmacy 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. | 1½ | Mil. Sci. or Phys. Ed. | 1½ | English 4     | 3       |

### THIRD YEAR

| Pharmacy 101  | 2       | Pharmacy 102  | 2       | Pharmacy 103  | 2       |
| Pharmacy 117  | 2       | Pharmacy 118  | 2       | Pharmacy 119  | 2       |
| Bacteriology 101 | 5       | Approved Elective | 11 | Approved Elective | 9       |
| Approved Elective | 6       | Pol. Sci. 101 | 2       |

Total scholastic hours for graduation—185 plus 10 hours of military science 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

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
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<th>Credits</th>
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<td>5</td>
<td>Pharmacy 2</td>
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<td>Pharmacy 3</td>
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<tr>
<td>Chemistry 8</td>
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<td>Chemistry 9</td>
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<tr>
<td>Physiology 6</td>
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<td>Botany 13</td>
<td>5</td>
<td>Botany 14</td>
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<tr>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
<td>Mil. Sci. or Phys. Ed.</td>
<td>1½</td>
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### 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. | 1½ | Mil. Sci. or Phys. Ed. | 1½ | English 4     | 3       |

### THIRD YEAR

| Pharmacy 101  | 2       | Pharmacy 102  | 2       | Pharmacy 103  | 2       |
| Pharmacy 117  | 2       | Pharmacy 118  | 2       | Pharmacy 119  | 2       |
| Bacteriology 101 | 5       | Approved Elective | 11 | Approved Elective | 9       |

### FOURTH YEAR

| Physics 1     | 5       | Physics 2     | 5       | Pol. Sci. 101 | 2       |
| Pharmacy 185  | 5       | Pharmacy 186  | 5       | Pharmacy 197  | 5       |
| Approved Elective | 5       | Approved Elective | 5     | Approved Elective | 8       |

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.
3. With degree of Bachelor of Science. (Four-Year Combined Scientific and Business Course.)

**FIRST YEAR**

(Same as for Curriculum 2)

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
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<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
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<tr>
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<td>Mil. Sci. or Phys. Ed.</td>
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<td>1½</td>
<td>English 4</td>
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**SECOND YEAR**

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<th>Autumn Quarter</th>
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<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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<td>Bus. Adm. 55 (Law)</td>
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<td>Bus. Adm. 56 (Law)</td>
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<td>Pharmacy 103</td>
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<td>Pharmacy 113</td>
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<td>Pharmacy 114</td>
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<td>Pharmacy 115</td>
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<tr>
<td>Bacteriology 101</td>
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<td>Psychology 1</td>
<td>5</td>
<td>Pharmacy 112</td>
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**THIRD YEAR**

<table>
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<th>Autumn Quarter</th>
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<td>Bus. Adm. 6 (Econom.)</td>
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<td>Pharmacy 120</td>
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<td>Pol. Sci. 101</td>
<td>2</td>
</tr>
</tbody>
</table>

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**

(Same as for Curriculum 2)

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
<th>Credits</th>
<th>Spring Quarter</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Physics 1</td>
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<td>Physics 2</td>
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<td>5</td>
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<tr>
<td>Bacteriology 101</td>
<td>5</td>
<td>English 1</td>
<td>5</td>
<td>English 2</td>
<td>5</td>
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<td>Foreign Lang</td>
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<td>Foreign Lang</td>
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<td>Foreign Lang</td>
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**SECOND YEAR**

<table>
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<tr>
<th>Autumn Quarter</th>
<th>Credits</th>
<th>Winter Quarter</th>
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<th>Spring Quarter</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Pharmacy 101</td>
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<td>Pharmacy 102</td>
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<td>Pharmacy 103</td>
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<td>Pol. Sci. 101</td>
<td>2</td>
</tr>
</tbody>
</table>

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.
5. With degree of Master of Science in Pharmacy. (Five-Year Course.)

Graduates of the four-year course may continue work for the master's degree as follows:

Not more than 22 credits allowed outside of the department of pharmacy.

Not less than 23 credits shall be elected in the department of pharmacy. At least 12 credits of the major work must be a research problem and the preparation of a thesis. Examination and thesis must conform to the regulations of the Graduate School.


The degree of doctor of philosophy (Ph.D.) with major and thesis in the pharmaceutical field may be taken by meeting all requirements of the graduate school. The bulletin of the graduate school should be consulted for information concerning graduate degrees.

Courses of Study

For description of courses offered by the College of Pharmacy, see Departments of Instruction section.
GRADUATE SCHOOL

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) . President of the University
Thomson, David, B.A. (Toronto) ....................................................... Dean of Faculties
Padelford, Frederick Morgan, Ph.D. (Yale) ...................................... Assistant Dean of Faculties

THE FACULTY, 1928-1929

PROFESSORS

Padelford, Frederick Morgan, Ph.D. (Yale) ............................................ Professor of English; Dean of the Graduate School
Benham, Allen Rogers, Ph.D. (Yale) .......................................................... Professor of English
Benson, Henry Kreitzer, Ph.D. (Columbia) ............................................. Professor of Chemical Engineering
Blake, Ralph Mason, Ph.D. (Harvard) ..................................................... Professor of Philosophy
Bolton, Frederick Emler, Ph.D. (Clark) .......... Professor of Education; Dean Emeritus of the School of Education
Burd, Henry Alfred, Ph.D. (Illinois) ...................................................... Professor of Business Administration; Director of Summer School
Carpenter, Allen Fuller, Ph.D. (Chicago) .................................................. Professor of Mathematics
Cobb, John Nathan .......................................................... Professor of Fisheries; Dean of the College of Fisheries
Coyle, Shirley Jay, Ph.D. (Chicago) ....................................................... Professor of Business Administration
Cor, Herbert Ellsworth, Ph.D. (Harvard) ................................................. Professor of Liberal Arts
Cox, Edward Godfrey, Ph.D. (Cornell) ................................................... Professor of English
Cox, William Edward, A.M. (Texas) ..................................................... Professor of Business Administration; Dean of the College of Business Administration
Daniels, Joseph, M.S. (Lehigh) ............................................................... Professor of Mining Engineering and Metallurgy
Dehn, William Maurice, Ph.D. (Illinois) ................................................. Professor of Organic Chemistry
Eastwood, Everett Owen, S.B. (Massachusetts Institute of Technology) .......... Professor of Mechanical Engineering
Frame, Hugh Campbell, Ph.D. (Harvard) ................................................ Professor of Business Administration
Frein, Pierre Joseph, Ph.D. (Johns Hopkins) .......................................... Professor of Romance Languages
Frye, Theodore Christian, Ph.D. (Chicago) .............................................. Professor of Botany
George, William Henry, Ph.D. (Harvard) ............................................... Professor of Political Science
Glen, Irving Mackey, M.A. (Oregon) ........................................................ Professor of Music; Dean of the College of Fine Arts
Gowen, Herbert Henry, D.D. (Whitman), F.R.G.S., F.R.S.A ........................................ Professor of Oriental Studies
Griffith, Dudley David, Ph.D. (Chicago) ................................................ Professor of English
Guthrie, Edwin Ray, Ph.D. (Pennsylvania) ................................................ Professor of Psychology
Harris, Charles William, C.E. (Cornell) ................................................ Professor of Hydraulic Engineering
Johnson, Charles Willis, Ph.D. (Michigan) ............................................. Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy
Kincard, Trevor, A.M. (Washington) .................................................... Professor of Zoology
Kirkland, Burt Persons, A.B. (Cornell) .................................................. Professor of Forestry
Kirsten, Friedrich Kurt, E.E. (Washington) ............................................. Professor of Electrical Engineering
Landes, Henry, A.M. (Harvard) ............................................................... Professor of Geology and Mineralogy; Dean of the College of Science
Langenhan, Henry August, Ph.D. (Wisconsin) .......................................... Professor of Pharmacy
Leib, Karl Elias, J.D. (Stanford) .............................................................. Professor of Business Administration
Lowe, Edgar Allen, E.B. (Wisconsin) ....................................................... Professor of Educational Engineering
Lyman, Elgin Verno, Ph.D. (Wisconsin) .................................................. Professor of Pharmacology and Chemistry
McKenzie, R. D., Ph.D. (Chicago) ........................................................... Professor of Sociology
McKenzie, Vernon, M.A. (Harvard) ........................................................ Professor of Journalism; Dean of the School of Journalism
McMahon, Edward, A.M. (Wisconsin) .................................................... Professor of American History
Magnusson, Carl Edward, Ph.D. (Wisconsin) .......................................... Professor of Electrical Engineering; Dean of the College of Engineering
Martin, Charles Emanuel, Ph.D. (Columbia) .............................................. Professor of Political Science
Meany, Edmond Stephen, LL.D. (College of Puget Sound) ........................................ Professor of History
Moritz, Robert Edouard, Ph.D. (Strassburg) ............................................ Professor of Mathematics
Osborn, Frederick Arthur, Ph.D. (Michigan) ............................................ Professor of Physics
Parrington, Vernon Louis, A.M. (Emporia) ............................................... Professor of English
Preston, Howard Hall, Ph.D. (Iowa) ....................................................... Professor of Business Administration
Raitt, Effie Isabel, A.M. (Columbia) ....................................................... Professor of Home Economics
Randolph, Edgar Dunham, Ph.D. (Columbia) ............................................ Professor of Education
Richardson, Oliver Huntington, Ph.D. (Heidelberg) ................................ Professor of European History
Rigg, George Burton, Ph.D. (Chicago) .................................................... Professor of Botany
Roberts, Milnor, A.B. (Stanford) ............................................................ Professor of Mining Engineering and Metallurgy; Dean of the College of Mines
Savery, William, Ph.D. (Harvard) ........................................................... Professor of Philosophy
Sider, Thomas Kay, Ph.D. (Chicago) ....................................................... Professor of Latin and Greek
Skinner, Macy Minnors, Ph.D. (Harvard) ................................................ Professor of Business Administration
Smith, George McPhail, Ph.D. (Freiburg) ................................................ Professor of Inorganic Chemistry
Smith, Stevenson, Ph.D. (Pennsylvania) ................................................ Professor of Psychology
Tartar, Herman Vance, Ph.D. (Chicago) .................................................. Professor of Chemistry

Absent on leave.

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The Faculty

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Uhl, Willis Lemon, Ph.D. (Chicago).........Professor of Education; Dean of the School of Education

Umphrey, George Wallace, Ph.D. (Harvard).........Professor of Romance Languages

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

Weaver, Charles Edwin, Ph.D. (California).........Professor of Paleontology

Weizsairi, John, Dr.P.H. (Harvard).........Professor of Bacteriology

Wilson, Howitt, C.Eng. (Ohio State University).........Professor of Ceramics

Winger, Roy Martin, Ph.D. (Johns Hopkins).........Professor of Mathematics

Winkenwerder, Hugo, M.F. (Yale).........Professor of Forestry; Dean of the College of Forestry

Wood, Martha Paige, A.M. (Harvard).........Professor of Music

Woolston, Howard, Ph.D. (Columbia).........Professor of Sodology

Worcester, John Locke, M.D. (Birmingham School of Medicine, Alabama).........Professor of Anatomy

ASSOCIATE PROFESSORS

1Anderson, Samuel Herbert, Ph.D. (Illinois).........Associate Professor of Physics

Bra kel, Henry Louis, Ph.D. (Cornell).........Associate Professor of Engineering Physics

Denny, Grace Goldena, A.M. (Columbia).........Associate Professor of Home Economics

Densmore, Harvey Bruce, B.A. (Oxford).........Associate Professor of Greek

DeVries, Louis Peter, Ph.D. (Wisconsin).........Associate Professor of Romance Languages

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

Esper, Erwin Allen, Ph.D. (Ohio State).........Associate Professor of Psychology

Gogglo, Charles, Ph.D. (Wisconsin).........Associate Professor of Romance Languages

Goodspeed, Jr., George Edward, B.S. (Middlebury).........Instructor in Technology

Hoffstadt, Rachel Emily, Miss, M.A. (Illinois).........Associate Professor of Geology

Gregory, Homer Ewart, M.A. (Chicago).........Associate Professor of Business Administration

Grondal, Bror, M.D. (Birmingham School of Medicine, Alabama).........Professor of Scandinavian Languages

Hatch, Melville H., Ph.D. (Columbia).........Associate Professor of Chemistry

Goodrich, Forest Jackson, Ph.D. (Washington).........Associate Professor of Forestry

Grosh, Mary Emma, M.A. (Columbia).........Associate Professor and Director of Physical Education for Women

Guibet, John Earl, Ph.D. (Illinois).........Associate Professor of Zoology

Hotson, William John, Ph.D. (Harvard).........Associate Professor of Botany

Isaacs, Walter, B.S. (James Millikin).........Associate Professor of Fine Arts

Jessup, John, M.A. (Iowa).........Acting Associate Professor of Education

Lucas, Henry Stephen, Ph.D. (Michigan).........Associate Professor of History

Mahony, Theresa Schmldt, Ph.D. (Wisconsin).........Associate Professor of Economics

Renner, Jr., George Thomas, Ph.D. (Columbia).........Associate Professor of Geography

Rinehart, Paschal, Ph.D. (Washington).........Associate Professor of Pharmacy and Materia Medica

Roberts, William Henry, Ph.D. (Columbia).........Assistant Professor of Oriental Studies

Scheuer, John Henry, Ph.D. (Columbia).........Assistant Professor of German

Searls, Meville H., Ph.D. (Michigan).........Assistant Professor of Zoology

Segall, Frederick William, Ph.D. (Chicago).........Assistant Professor of Bacteriology

Shieve, Cooper Harold, Ph.D. (Harvard).........Assistant Professor of Philosophy

McKay, George F., B.M. (Rochester).........Assistant Professor of Music

Mander, Linden A., M.A. (Adelaide).........Assistant Professor of Political Science

Miller, Robert Cunningham, Ph.D. (California).........Assistant Professor of Zoology

Patterson, Ambrose, M.A. (Columbia).........Assistant Professor of English

Payne, Blanche, M.A. (Adelaide).........Assistant Professor of History

Peters, Sargent, Ph.D. (Washington).........Assistant Professor of Chemistry

Rowntree, Jessie Irene, M.S. (Chicago).........Assistant Professor of Home Economics

Small, George William, Ph.D. (Johns Hopkins).........Assistant Professor of Engish

Graduate Council: Dean Padelford, chairman; Deans Thomson, Magnuson; Professors

Manny, Renner, Woolston, Randolph, Guthrie, Alexander, Tartar, Goberlet, Burt and Stone.

Graduate School Publications Committee: Dean Padelford, chairman; Deans Landes, Cobb; Professors Rigg, Carpenter, C. W. Smith, Griffith, Jacobs, McKenzie, and Wild.
GENERAL STATEMENT

SPECIAL NOTE.—For detailed information concerning special facilities for graduate work in the various departments, consult the bulletin issued by the Graduate School.

The Aims of Graduate Study.—The principal aims of graduate study are the development of intellectual independence through cultivation of the scientific, critical and appreciative attitude of mind, and promotion of the spirit of research. The graduate student is therefore thrown more largely upon his own resources than the undergraduate, and must measure up to a more severe standard. The University is consistently increasing the emphasis on graduate work in order that it may be a strong center for advanced study.

Organization.—The Graduate School was formally organized in May, 1911. The graduate faculty consists of men offering courses primarily designed for graduate students.

Fees.—Graduate students pay a tuition fee of $15 a quarter for the autumn, winter and spring quarters, if residents of the State of Washington or of Alaska, or $50 a quarter for each of these quarters if non-residents. The regular fee for the summer quarter is $25 for students at the University; $25, including a $5 laboratory fee, for students at the Biological Station.

Members of the staff on a full-time teaching schedule are relieved of all tuition. Teaching fellows, graduate scholars—formerly known as graduate assistants and graduate readers—and non-instructional employees of the University pay a tuition fee of one dollar per quarter for each credit hour on the election blank. Tuition and laboratory fees for all graduate students holding fellowships or scholarships from bequests or private sources are remitted.

Incidental fees, such as library and laboratory fees, are required from all graduate students who are not relieved of fees as stated above.

Graduate students are given the first week of each quarter in which to complete their registration without late fees.

LIBRARY FACILITIES

The University general library contains 190,414 volumes, and receives virtually all of the publications of learned societies. The law library contains approximately 53,563 volumes. The Seattle public library, containing around 412,000 volumes, is open to students without charge.

Collections of special significance are mentioned in the departmental announcements.

SPECIAL FACILITIES

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

The Alice McDermott Memorial Fund.—The late Mrs. Josephine P. McDermott made provision in her will for the establishment of the Alice
McDermott Memorial Fund at the University of Washington. The amount of this bequest is $100,000 available for one or both of the following purposes:

1. Research work in or in connection with the University of Washington tending to promote the prevention of tuberculosis.
2. The purchase of radium for research work in connection with disease or for actual treatment thereof.

*Engineering Experiment Station.*—The purpose of the station is to aid in the industrial development of the state and nation by scientific research and by furnishing information for the solution of engineering problems.

The scope of the work is two-fold.

1. To investigate and to publish information concerning engineering problems of a more or less general nature that would be helpful in municipal, rural, and industrial affairs.
2. To undertake extended research and to publish reports on engineering and scientific problems.

Every effort will be made to cooperate effectively with professional engineers and the industrial organizations in the state. Investigations of primary interest to the individual or corporation proposing them, as well as those of general interest, will be undertaken through the establishment of fellowships.

For administrative purposes, the work of the station is organized into eight divisions: (1) Forest products, (2) mining, metallurgy and ceramics, (3) aeronautical engineering, (4) chemical engineering and industrial chemistry, (5) civil engineering, (6) electrical engineering, (7) mechanical engineering, (8) physics standards and tests.

*Puget Sound Biological Station.*—The Puget Sound Biological Station, open during the summer quarter for classes and to research workers by special arrangement at other times, is located at Friday Harbor in San Juan County. This region is unsurpassed in natural advantages for a marine biological laboratory, perhaps the most fortunate in the country. The very varied conditions result in the presence of a very diverse flora and fauna. The protected shores make it easy and comparatively safe to get about. The sea life embraces a great abundance of the following animal forms: hydroids, echinoderms, shore crabs, worms, bivalves, gastropods, nudibranchs, star fish, sea urchins, anemones, sea-cucumbers and barnacles, medusae and jelly fish, and a hundred species of other fish. Water fowl nest on rocky cliffs. All of the four groups of algae are abundantly represented, between 75 and 100 species being found, exclusive of microscopic forms. Among the brown algae, the kelps predominate, Nereocystic being the most abundant, though the other species of kelp are common. Fucus is the most prevalent of the rock weeds. Among the red algae are Polysiphonia Gigartina, Porphyra and Ampiroa; among the green algae, Ulva, Enteromorpha and Codium; and among the blue-green algae, Nostoc and Dermocarpa. Diatoms of many forms abound.

With this rich fauna and flora, some of which are available in shore work and others brought up by the dredge, there are large opportunities for work in taxonomy, morphology, cytology, ecology and physiology. Since the region is still somewhat new scientifically, there is much important work to be done in taxonomy and local distribution. As there are several forms of which the life history is not completely known, the morphological work is attractive. The problems in physiology, both in the field and in the laboratory, are numerous. The opportunities for work in ecology are excellent and many of them will have important economic bearing on fisheries problems. Thus among the important lines of investigation may be mentioned study on the diatoms, bacteria, and various fish parasites.
The University owns 484 acres with about two miles of shore line, and the state has made the whole county a marine preserve. Three new buildings have been erected within the past three years; two of them are permanent fireproof laboratory buildings. The station publishes a series, now in its third volume, known as the Publications of the Puget Sound Biological Station. There is a station library of about 1,000 volumes.

LABORATORIES

The University has well-equipped laboratories for advanced work in anatomy, botany, ceramics, chemistry, civil, chemical, electrical, mechanical and mining engineering, fisheries, forestry, geology, metallurgy, pharmacy, physics, psychology and zoology.

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. Application 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 which is acceptable to the appointing board. The salary will ordinarily be $1800 for the first year. Fellows are eligible for successive reappointments ordinarily with increase in salary. For details address the dean of the Graduate School or the heads of the departments.

University Honorary Fellowships.—Three honorary fellowships have been established by the University. These, like the Loretta Denny Fellowships, are open to students in any department of the University. They carry no stipend, and are designed to furnish recognition of exceptional scholastic excellence in the case of graduate students who are not eligible for the Loretta Denny or the Arthur A. Denny fellowships, either because they do not need financial assistance or because they are not giving their entire time to their work in the University.

Research Fellowships.—The College of Mines offers five fellowships for research in coal and clay in cooperative work with U.S. Bureau of Mines. The fellowships are open to graduates of universities and technical colleges who are properly qualified to undertake research investigations. The value of each fellowship is $720 to the holder, for the twelve months beginning July 1. Fellowship holders pay tuition and laboratory fees, but are reimbursed for the amounts so expended; they register as graduate students and become candidates for the degree of master of science in the proper subject, unless an equivalent degree has previously been earned.
Each applicant should send a copy of his collegiate record from the registrar of the college where he has graduated, or will graduate in June. He should also send a photograph and a detailed statement of his professional experience, if any, and give the names and addresses of at least three persons who are familiar with his character, training and ability. Applications should be submitted if possible by April 20 in order to allow ample time for consideration, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

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

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

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

*The Skagit Valley Goldenseal Farm Fellowship in Pharmacy.*—A research fellowship of $500 is offered annually to a graduate student in drug plant cultivation.

*The Nakata Fellowship in Oriental Studies.*—The Nakata fellowship of $300 is offered annually to a graduate student in Oriental Studies.

*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, assistants in charge of quiz sections, or readers. The remuneration is proportioned to the service, and ranges from $180 to $360.

**ADMISSION**

Three classes of students are recognized in the Graduate School:

1. Candidates for the master's degree.
2. Candidates for the doctor's degree.
3. Students not candidates for a degree.

**Admission.**—A graduate of the University or of any other institution of good standing will be admitted to the Graduate School. Before being recognized as a candidate for a degree, however, a student must be approved by a committee appointed by the dean of the Graduate School, which shall also constitute the advisory committee to oversee the student's subse-
quent work. Unless the committee is already sufficiently acquainted with the candidate's capacity and attainments, there shall be a conference of the committee and the candidate, the purpose of which is two-fold:

(a) To determine whether the student has the quality of mind and the attitude toward advanced work which would justify his going on for an advanced degree.

(b) To satisfy the major and minor departments and the graduate council that the student has the necessary foundation in his proposed major and minor subjects. If he lacks this foundation, he will be required to establish it through undergraduate courses or supervised reading.

If the student is from a college or university which falls below a satisfactory standard in curriculum, efficiency of instruction, equipment or requirements for graduation, he may be required to take other undergraduate courses in addition to those required as a foundation in the major and minor subjects.

As soon after matriculation as feasible, a candidate for an advanced degree must file with the dean of the Graduate School an outline of his proposed work, on a blank provided for that purpose. This blank is submitted to the advisory committee for acceptance or modification. When it has received approval of the graduate council and the student has been notified, he will be regarded as a candidate for a degree.

Students on the Staff.—Assistants, associates, or others in the employ of the University are normally permitted to carry a maximum of six hours of graduate work if full-time employees, and a maximum of eleven hours if half-time employees.

Graduate Study in the Summer.—As the summer offers leisure for advanced study to a large number of teachers, the University lays special emphasis on graduate work during the summer quarter. Graduates of colleges or universities in attendance then are urged to enroll for the strictly graduate courses, as these courses give an opportunity to work with a select group of mature students toward the acquisition of an advanced degree.

Graduate students will enroll with the dean of the Graduate School. Attendance during three summer quarters will satisfy the residence requirement for the master's degree. A fair amount of credit toward the doctor's degree may also be earned in the summer quarter.

Graduate Credit for Extension Courses.—(1) Students who have received bachelor's degrees elsewhere may earn graduate credits through the Extension Service under the following limitations:

a. Nine credits (one-fifth of the normal requirement for the master's degree) may be earned in approved Home Study or Extension class courses of graduate standing.

b. Such students must, however, meet the residence requirement of three full quarters.

(2) Students who have earned bachelor's degrees from the University of Washington may earn graduate credits through the Extension Service under the following limitations:

a. Nine credits (one-fifth of the normal requirement for the master's degree) may be earned in approved Home Study or Extension class courses of graduate standing.

b. Such students must meet the residence requirement of two and a half quarters.

Degrees

The Doctor's Degree

Doctor of Philosophy.—Graduate students will be received as candidates for the degree of doctor of philosophy in such departments as are adequately equipped to furnish the requisite training. Each department intro-
Degrees

produces its program of courses with a specific statement of the graduate training that it is prepared to direct, and of the distinctive opportunities that it offers for graduate work. This degree is conferred only on those who have attained proficiency in a chosen field and who have demonstrated their mastery by preparing a thesis which is a positive contribution to knowledge.

The requirements for the degree of doctor of philosophy are as follows:

1. At least three years of graduate work, of which not less than one year must be spent in residence at the University of Washington. If a candidate is otherwise engaged in any regular employment, a correspondingly longer period of study will be required. Before being recognized as a candidate for the degree, a student must be approved by a committee as provided above.

2. Completion of courses of study in a major and one or two minor subjects. This requirement as to the number of minors, however, may in exceptional cases be modified by action of the Graduate Council, making it possible for the candidate to offer more than two minors, or no minor at all. What subjects may be offered as minors shall be determined by the major department with the approval of the Graduate Council. The passing grades for advanced degrees are A and B, S being used to indicate satisfactory work in a hyphenated course so far as the course has progressed, such work not to be counted toward a major or minor until the final examination.

These courses of study cover at least two years of work. The work of the first year is virtually identical with that for the master's degree, and normally the candidate will wish to take this degree incidentally; the work of the second year is of still more advanced character. Not earlier than the end of the second year and at least a year before the time when the candidate expects to take the degree, the major and minor departments supplemented by a representative from the graduate council, shall submit the candidate to a careful oral and written examination, to determine whether he has the native equipment and the scholarship to warrant him in continuing.

3. The preparation of a thesis, as stated above, embodying the results of independent research. The thesis may properly be initiated in the second year, and should occupy the greater part of the third year. If the thesis is of such a character, or falls in such a department, that it requires library or laboratory facilities beyond the resources of the University, the student will be required to carry on his investigation at some other university, at some large library, or in some special laboratory. This thesis must be approved by a committee appointed by the major department of which the instructor in charge of the thesis shall be a member, and also by a special committee from the graduate council.

4. Examinations as follows:

The Preliminary Examination.—An oral, or oral and written examination, covering the major and minor subjects. In so far as the examination is oral, it shall be before a committee appointed by the dean of not less than three representatives of the major department, not less than one representative of each of the minor departments, and a representative of the graduate council. The preliminary examination will normally be taken not less than two quarters before the final examination.

The Final Examination.—An oral, or oral and written examination, before the same committee as above. If the preliminary examination was in all respects satisfactory, the final examination shall be on the field of the thesis and such courses as were taken subsequent to the preliminary examination. If the preliminary examination did not meet with the clear approval of the committee, the candidate's entire program, or such parts thereof as may have been designated by the committee, shall be subject to review.

If there is division of opinion in the committee in charge of either examination, the case shall be decided by the graduate council, with right of appeal to the graduate faculty.
5. Evidence of a reading knowledge of scientific French and German and of such other languages as individual departments may require. Such evidence must be filed with the dean and approved by him before the preliminary examination. 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. Two copies of the thesis in typewritten form (or library hand) shall be deposited with the librarian for permanent preservation in the University archives, at least two weeks before the date on which the candidate expects to take the degree. One copy shall be bound at the expense of the candidate.

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 400 copies and the candidate with 50 copies.

7. A statement certifying that all courses and examinations have been passed and that the thesis has been accepted and properly filed in the library, shall be presented to the dean at least one week before graduation. This statement must bear the signatures of all major and minor instructors in charge of the student's work, of the committee appointed by the major department to pass on the thesis, and of the librarian or his appointed representative.

THE MASTER'S DEGREE

Master of Arts.—The degree of master of arts implies advanced liberal training in some humanistic field, gained through intensive study of one of the liberal arts supplemented by study in one or two supporting subjects. This detailed study culminates in a thesis which, if not an actual contribution to knowledge, is concerned with the organization and interpretation of the materials of learning. Creative work of a high quality may be offered in lieu of a thesis.

Master of Science.—The degree of master of science implies training similar to the above in some province of the physical or biological sciences. The thesis for this degree, however, must be an actual contribution to knowledge.

The requirements for these degrees 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 course hours, of which 24 are normally in the major. The thesis normally counts for 9 hours in addition to the course work and lies in the major field. The passing grades for advanced degrees are A and B, S being used to indicate satisfactory work in a hyphenated course so far as the course has progressed, such work not to be counted toward a major or a minor until the final examination.

The requirements of a minor or minors may be waived, but only on recommendation of the major department and with the consent of the graduate council.

A reading knowledge of a foreign language is required for the degree of master of arts.

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.
Elementary or lower division courses may not count toward the minor requirement, and teachers' courses may not count toward either the major or minor requirements.

The preparation of a thesis, as defined above.

4. An oral, or written, or an oral and written examination, given by a committee appointed by the head of the major department, including so far as feasible, all the instructors with whom the student has worked. If division of opinion exists among the examiners, the case shall be decided by the graduate council, with right of appeal to the graduate faculty.

5. The candidate's thesis shall be in charge of the instructor in whose field the subject falls, and it must be approved by a committee of the major department, of which the instructor in charge shall be a member. If the committee is divided in opinion, the case shall be decided by the graduate council, with right of appeal to the graduate faculty. At least two weeks before the date on which the candidate expects to take the degree, two copies 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 for one copy must be deposited with the thesis.

6. A statement certifying that all courses and examinations have been passed, and that the thesis has been accepted and properly filed in the library, shall be presented to the dean at least one week before graduation. This statement must bear the signatures of all instructors in charge of the student's work, of the instructors in charge of the thesis, and of the librarian or his appointed representative.

Master of Arts and Master of Science in Technical Subjects.—The degree of master of arts and master of science is given in technical subjects as follows:

- Master of Science in Chemical Engineering.
- Master of Science in Civil Engineering.
- Master of Science in Electrical Engineering.
- Master of Science in Mechanical Engineering.
- Master of Science in Ceramic Engineering.
- Master of Science in Coal Mining Engineering.
- Master of Science in Geology and Mining.
- Master of Science in Metallurgy.
- Master of Science in Mining Engineering.
- Master of Science in Forestry.
- Master of Science in Fisheries.
- Master of Science in Pharmacy.
- Master of Science in Home Economics.
- Master of Arts in Music.
- Master of Arts in Business Administration.

The requirements for these degrees are essentially the same as those for the degrees of master of arts and master of science.

Master's Degree in Technical Subjects.—The master's degree is given in technical subjects as follows:

- Master of Forestry.
- Master of Business Administration.
- Master of Laws.
- Master of Fine Arts.

The requirements for these degrees are essentially the same as those for the degrees of master of arts and master of science, with the exception that all the work may be in the major.

Courses of Study

For description of courses see Departments of Instruction section.
EXPLANATION

This section 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.

The four-quarter plan has been adopted to enable the University to render larger service. It is more flexible than the semester plan and adds twelve weeks' instruction to the regular year. It is impossible, however, to provide that every course be given every quarter.

Courses bearing numbers from 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," 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 1928-1929.

Courses preceded by ** are given if a sufficient number of students elect them.
DEPARTMENTS OF INSTRUCTION

AERONAUTICAL ENGINEERING
Aeronautical Laboratory
Professor Kirsten

101. Aerodynamics.—Study of air-flow phenomena and of the aerodynamical characteristics of air foils and air-foil combinations. Qualitative and quantitative wind tunnel testing in two-foot and four-foot tunnel. Prerequisite, Junior standing. Three credits; autumn, winter, spring. Kirsten.

102. Aerodynamics.—Selection of air-foils for prescribed airplane performance; performance calculations; study of methods of structural design and analysis; wind tunnel testing of airplane models. Prerequisite, A.E. 101. Three credits; winter, spring. Kirsten.

111. Aerial Propulsion.—Study of several methods of screw propeller design; design of a standard screw propeller and performance calculations. Prerequisite, A.E. 101. Three credits; autumn, winter. Kirsten.

112. Aerial Propulsion.—Study of different types of propellers; coordination of propellor with vessel; study of standard propeller test methods; propeller test in wind tunnel. Prerequisite, A.E. 111. Three credits; spring. Kirsten.


122. Aeronautical Design.—Choice of type of airplane or any type of flying machine of the heavier-than-air class. Stress analysis of structural parts, performance calculations, making and testing of model in wind tunnel. Prerequisite, A.E. 121. Three credits; spring. Kirsten, Miller.

**141. Airships.—Study of lighter-than-air machines, helicopters, ornithopters and auto-gyro's; airship gases; special problems of control and stability of aircraft. Prerequisite, A.E. 101. Three credits. Kirsten.

**161. Aerial Transportation.—Design and layout of landing fields and aircraft terminals; study of economics involved in operation and maintenance of aerial transportation lines. Prerequisite, A.E. 111, 121, 141. Three credits. Miller.

Courses 121 and 161 will be supplemented with lectures by Mr. C. E. Egtvedt, Mr. C. N. Monteith, Mr. R. J. Minshall and other engineers of the Boeing Airplane Company of Seattle.

ANATOMY
Anatomy Building
Professor Worcester

GROSS ANATOMY

25. Anatomy.—For hospital students. Three credits; autumn, winter, spring. Worcester.

101, 102, 103. General Human Anatomy.—Thorough study of the human body. Osteological collections are available. Especially for students taking

**Will be offered if a sufficient number of students elect the course.

(229)
Departments of Instruction

the pre-medical, nurses', or physical education courses; open to others. Pre-
requisite, Zool. 3 and 7 or their equivalent. Lab. fee, $3. Three or six
credits a quarter; autumn, winter, spring.

104. Topographic Anatomy.—Cross and sagital sections for correlation.
Prerequisites, Anat. 101, 102, 103. Lab. fee, $3. Four credits; autumn,
winter, spring.

108. Special Dissections.—Designed for physicians or students who have
completed the above courses in gross anatomy. Lab. fee, $3. Credits to
be arranged. Autumn, winter, spring.

110, 111, 112. Special Demonstrations.—Designed for physical education
and bacteriology majors. Lab. fee, $1. Credits and hours to be arranged;
autumn, winter, spring.

MICROSCOPIC ANATOMY

105, 106. Histology and Embryology.—Microscopic anatomy of develop-
ing and adult mammals studied in both fresh and fixed conditions. Especial-
ly for students in pre-medical and nurses' courses but open to others. Pre-
requisite, Zoot. 1 or 3 or their equivalent. Lab. fee, $3. Six
credits a quarter; autumn, winter.

107. Neurology.—Dissection of the human brain and cord and special
organs of sense; comparative developmental history of the central nervous
system; a microscopic study of the nuclei and fibre tracts. Prerequisites,
Zool. 1 or 3 or their equivalent. Especially for pre-med students but
open to others. Lab. fee, $3. Six credits a quarter; spring.

200. Research.—Graduate and research work in anatomy for those qual-
ified. Credits and time arranged. Autumn, winter, spring.

ANTHROPOLOGY

Education Hall
Associate Jacobs

51. General Introduction to Anthropology.—A general survey of human
history; origin and development of arts and industries; race questions.
Five credits; autumn, winter.

52. Primitive Society.—Five credits; spring.

101. Cultures of the American Indians.—Factors that determine the
growth of civilizations, as illustrated by the North American Indians.
Prerequisite, Anthro. 51 or 52 or instructor's permission. Five credits;
spring.

110. Pre-History.—Five credits; spring.

*111. Northwest Pacific Coast of North America.

141. Primitive Art and Literature.—Five credits; spring.

*143. Origins of Art.

*163. Racial History.

*185. Primitive Social and Political Institutions.

*Not offered in 1928-1929.
Courses in Architecture

190, 191, 192. Research.—Instructor’s permission necessary. Credits and hours to be arranged; autumn, winter, spring.

Staff.

COURSES FOR GRADUATES ONLY

204, 205. Methods of Anthropology.—Analysis of culture; historical and psychological methods; theories of culture growth. Three credits a quarter; winter, spring.

Staff.

ARCHITECTURE

Architecture Building

Professor Thomas; Associate Professor May; Assistant Professors Herrman, Gowen; Instructor Pearce

(Member of the Collegiate Schools of Architecture)

All students contemplating the study of architecture should confer with the head of the department as to their special qualifications and reasons for entering the professional study of architecture. A student should have credits in plane geometry, algebra through quadratics, trigonometry, physics, and at least two years of foreign language. Forty hours of foreign language are required for graduation, twenty hours of which are provided in the curriculum. The romance languages, particularly French, should be chosen, though freedom of choice is allowed.

1.2. Architectural Appreciation.—Illustrated lectures giving an historic survey of domestic architecture. General appreciation of architecture. Exercises in drawing and the simpler elements of buildings. Two credits a quarter; autumn, winter.

Herrman.

3. Architectural Appreciation.—General appreciation of important periods of architectural history, studied, wherever possible, in terms of present day conditions. Two credits; spring.

Herrman.

4-5-6. Elements of Architectural Design.—Problems in architectural drawing, such as walls, doors, windows, colonades, 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.

Jacobsen.

40, 41, 42. Freehand Drawing, Water Color.—Still life studies and outdoor sketching in water color. Lab. fee, $1. Prerequisite, P.S.D. 34. Two credits each quarter; autumn, winter, spring.

Pratt.


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 element. Illustrated lectures and library research. Prerequisite, Arch. 3. Two credits a quarter; autumn, winter, spring.

Thomas.

54, 55, 56. Architectural Design, Grade I.—Problems in design under individual criticism; order problems and simple problems of building. 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, $7.50 for the year. Prerequisite, Arch 6. Five credits any quarter; autumn, winter, spring. 

Gowen, Jacobsen.

101-102-103. History of Architecture.—The renaissance; a 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, 107. Architectural Design, Grade II.—Advanced problems in design done under individual criticism. (B.A.I.D. Class B Projet) Lab. fee, $7.50 for the year. Prerequisite, Arch. Design, Grade I. Five credits any quarter; autumn, winter, spring. 

Thomas, Herrman.

112, 113. Freehand Drawing.—Studies of casts of the human figure. Charcoal, flat wash, and pencil. Lab. fee, $1. Prerequisite, P.S.D. 34. Two credits a quarter; autumn, winter. 

Pratt.

115. Modelling.—Modelling of architectural subjects from program; work to be done outside of class hours or as arranged. Definite number of points required for the course. Senior standing; two credits; winter. 

Jacobsen.

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, and the like, as applied by the architect. Prerequisite, Arch. 117. Three credits; spring. 

May.

120-121-122. Working Drawings.—Lectures on simple building construction. Drafting room practice in working drawings. Interpretation of rough sketches and design studies in terms of construction. Full size and large scale studies of details. Inspection trips. Two credits a quarter; autumn, winter, spring. 

Thomas.

125-126. 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; winter, spring. 

Jacobsen.

140. History of Architectural Ornament.—A comparative study of the historic development of architectural ornament. Illustrated lectures and library research. Prerequisite, Arch. 3. Two credits; spring. 

Gowen.

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; spring. 

Gowen.

152. Theory of Architecture.—Theory of architectural design, relation of composition and scale, planning. Class discussions and lectures. Prerequisite, Arch. Design, Grade II. Two credits; autumn. 

Gowen.

153. Architectural Materials.—Properties of materials used in architectural construction and practice; steel, concrete, wood, plaster, paint, varnish, and the like. Senior standing. Two credits; winter. 

Gowen.

154, 155, 156, 157. Architectural Design, Grade III.—Advanced design under individual criticism. (B.A.I.D. Class A Projet) Lab. fee, $7.50 for the year. Prerequisite, Arch. Design, Grade II. Five credits a quarter; autumn, winter, spring. 

Thomas, Gowen.
158. **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 per week for discussions of projects and of topics of current interest to architects. Lab. fee, $5. Prerequisite, Arch. Design, Grade III. Eight credits; autumn, winter, spring. Thomas, Gowen, Herrman.

159. **Specifications and Office Practice.**—Specifications and all contract forms used by the architect; modern business methods, ethics and office organization. Two credits; spring. Thomas.

160, 161, 162. **Architectural Problems.**—Class A, B.A.I.D. Problems and advanced local problems in design. Prerequisite, Arch. 158. Three to seven credits; any quarter. (The amount of credits will be proportionate to the duration in weeks of the problems taken, with a maximum of seven credits and a minimum of three.) Fee, $7.50 for the academic year or any quarter of the academic year unless student has previously, the same academic year, registered for Arch. 158, in which case, the amount of that fee will be deducted. Three to seven credits; any quarter. (The amount of credits will be proportionate to the duration in weeks of the problems taken, with a maximum of seven credits and a minimum of three.) Fee, $7.50 for the academic year or any quarter of the academic year unless student has previously, the same academic year, registered for Arch. 158, in which case, the amount of that fee will be deducted. Thomas, Gowen.

170. **Senior Mechanics.**—Advanced theory of construction. Structural design of buildings and solution of structural problems in concrete or steel of the thesis required for graduation. Two credits; winter. May.

**Note.**—Fee for Design Grade I-II-III is $7.50 for the academic year unless the student has previously registered for preceding grade the same academic year.

### ASTRONOMY

The Observatory

**Assistant Professor Zanstra**

The work in astronomy is planned for (a) students who desire some knowledge of astronomy as part of a liberal education; (b) navigators and engineers who need some knowledge of the science as part of their technical equipment.

1. **General Astronomy.**—A descriptive, non-mathematical course, designed to give the student some idea of the solar system, the stars, and the place of the earth in the universe. Five credits; autumn, winter. Zanstra.

101. **Astrophysics and Stellar Astronomy.**—Discussion of the physical properties of the sun and the stars; their spectra, luminosities, temperatures, masses, and the methods for obtaining them; motions and distances of stars, star clusters and spiral nebulae; binary stars, variable stars, novae, galactic nebulae, and other subjects. Prerequisites, Ast. 1, Phys. 1, 2, 3, or 97, 98, 99, or special permission. Four credits; winter. Zanstra.

### BACTERIOLOGY AND PATHOLOGY

Science Hall

**Professor Weinszrl, Assistant Professor Hoffstadt, Lecturer G. A. Magnusson, Associate Gerdeman and Assistants.**

**COOPERATING LABORATORIES:**

- P. C. West, M.D., Director Seattle Department of Health.
- E. D. Clark, Ph.D., Director National Cannery Association.
- W. E. Gibb, B.S., Director Virginia Mason Hospital.
- D. H. Nickson, M.D., Director Swedish Hospital.
- G. A. Magnusson, M.D., Director Physicians' Clinical.

The work in bacteriology provides training along the following lines:

(a) As part of a liberal education; (b) as applied to medicine, nursing,
Departments of Instruction

pharmacy, fisheries, home economics, sanitary engineering, chemistry; (c) for the preparation of technicains and bacteriologists; (d) for advanced degrees.

101. General Bacteriology.—Technique in growing and examining bacteria, identification of species, common disease bacteria. Prerequisite, Chem. 2. Prerequisite for advanced degrees. Lab. fee, $4. Five credits; autumn, winter, spring, summer. Weinzirl and Staff.

102. Sanitary Bacteriology.—Water supplies and sewage disposal; meat, milk and other foods; certain industrial applications. Prerequisite, Bact. 101. Lab. fee, $4. Five credits; winter. Weinzirl and Hoffstadt.

103. Public Hygiene.—Conservation of health; prevention of diseases; school hygiene; industrial hygiene, etc. Five credits; lectures only; autumn, spring. Lab. fee, $1. Weinzirl.

104. Serology.—Types of immunity; immunization of animals and man; study of immune products. Prerequisite, Bact. 101. Lab. fee, $5. Five credits; spring. Hoffstadt.


106. Clinical Diagnosis.—Examination of blood, urine, gastric and intestinal contents, parasites, etc. Prerequisite, Bact. 101. Lab. fee, $5. Five credits; winter. Magnusson and Hoffstadt.

107. Sanitation.—Technique and application of bacteriology to sanitary engineering. For engineers. Lab. fee, $5. Three credits; winter. Weinzirl and assistant.

110, 111, 112. Pathology.—Gross and microscopic study of inflammation, degeneration and tumors. Prerequisite, Anat. 105. Lab. fee, $5. Five credits; autumn, winter, spring. Hoffstadt.

120, 121, 122. Applied Bacteriology.—Work in practical laboratories, media room, public health, private, hospital or industrial laboratories. Twenty hours per week. Registration, written report and letter from director required. For bacteriology majors only. Prerequisites, Bact. 102, 104, 105, 106. Five credits; autumn, winter, spring, summer. Weinzirl.

126, 127, 128. Survey of Recent Bacteriological Literature.—One credit; autumn, winter, spring. Hoffstadt.

COURSES FOR GRADUATES ONLY

204, 205, 206. Advanced Bacteriology.—Work on assigned topics. Under this head nearly all types of work can be provided. Time and credit to be arranged. Autumn, winter, spring, summer. Weinzirl.

207, 208, 209. Seminar.—Two credits; autumn, classification of bacteria; winter, filterable viruses; spring, public health administration. Weinzirl, Hoffstadt.

210, 211, 212. Research.—Investigation of assigned problems. Open to qualified students after consultation. Credits to be arranged; autumn, winter, spring, summer. Weinzirl and staff.
Courses in Botany

BOTANY
Science Hall

Professors Frye, Rigg; Associate Professor Hotson.

SUGGESTED SELECTIONS

For the required biological science in the Colleges of Liberal Arts and Science, only courses 1, 2, 3, 4, 105, 106, 107 will be accepted. Students in the College of Fine Arts desiring to satisfy the science requirement by taking botany may select from this list, or they may include 101. It is recommended that they include 101 where possible.

For a major: Courses 105, 106, 107, 140, 141, 142, 143, 144, 145 of which 105, 106, 107 are required.

For teaching botany: 105, 106, 107, Edu. 160A, Bot. 140, 141, 142, 143, 144, 145, are suggested.

For pharmacy students: 13, 14.
For forestry students: 11, 12, 101, 111, 140, 141, 142.
For fisheries students: 53.

1. Elementary Botany.—Structure and functions of roots, stems, leaves and seeds. Lab. fee, $2. Five credits; autumn and winter.

2. Elementary Botany.—Types of the great groups of plants from the highest to the lowest. Prerequisite, 1. Lab. fee, $2. Five credits; winter.

3. Elementary Botany.—Plant analysis; field work with local flora. Open to students entering without botany. Lab. fee, $2. Five credits; spring. Offered in alternate years with Bot. 4.

4. Ecology.—A field study of plant communities with lectures on the principles of ecology. Prerequisite, Bot. 1 or 3. Fee, $2. Five credits; spring. Offered in 1929-30 and after that in alternate years with Bot. 3.

11, 12. Foresters' Botany.—Types of plants illustrating the advance in complexity. For forestry students. Lab. fee, $2. Five credits a quarter; winter and spring.

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.

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.

90. Greenhouse Practice.—Students do actual work in the University greenhouse, gaining knowledge of soils, fertilizers, methods of propagation, etc. Lab. fee, $2. Three credits; spring.

101. Landscape Gardening.—The plants used in beautifying lawns and houseyards, their propagation and use. Lab. fee, $2. Five credits; spring. Registration limited to 20 students.

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.

*Not offered in 1928-1929.
Departments of Instruction

111. Forest Pathology.—Recognition and treatment of common wood destroying fungi. Prerequisite, Bot. 11 or 105. Lab. fee, $2. Five credits; autumn.

Hotson and assistant.

119. Plant Histology.—Preparation of slides for the microscope; a study of tissues. Prerequisite, Bot. 106. Lab. fee, $3. Two to five credits; autumn.

Frye.

120. History of Botany.—The great ideas from the dawn of history to date. Three credits; autumn.

Frye.

140, 141, 142. General Fungi.—Morphology and classification of fungi as a basis for plant pathology. Prerequisite, Bot. 11 or 105, junior standing. Lab. fee, $2. Five credits a quarter; autumn, winter, spring. Hotson.

143, 144, 145. Plant Physiology.—Prerequisite, three quarters of botany and Chem. 22. Desirable prerequisites, Chem. 133 and Physics 2. Lab. fee, $3. Five credits a quarter; autumn, winter, spring.

Rigg.

180, 181, 182. Plant Pathology.—Diseases of plants and the fungi which produce them. Prerequisite, Bot. 142. Lab. fee, $2. Five credits a quarter; autumn, winter, spring.

Hotson.

199. Proseminar.—Semi-independent work by students. Open only on consultation with the head of the department. Lab. fee, $2. Two to five credits; any quarter.

Frye, Rigg, Hotson.

Teachers' Course in Botany.—See Educ. 160A.

Courses for Graduates Only

220. Advanced Fungi.—Prerequisite, Bot. 142. Lab. fee, $2. Five credits; any quarter.

Hotson.

233. Research.—Lab. fee, $2. Two to five credits; any quarter.

Frye, Rigg. Hotson.

247. Diatoms.—Prerequisite, Bot. 53 or 105. Lab. fee, $2. Three credits; autumn.

Frye.

250. Algae.—Prerequisite, Bot. 105. Lab. fee, $2. Credits to be arranged; autumn, winter.

Frye.

251. Bryophytes.—Prerequisite, Bot. 106. Lab. fee, $2. Credits to be arranged; any quarter.

Frye.

271, 272, 273. Experimental Morphology.—Prerequisites, Bot. 106, 145, one year chemistry. Lab. fee, $2. Two credits a quarter; autumn, winter, spring.

Frye.


Rigg.

280. Micrometabolism.—Prerequisites, Bot. 12 or 107, 145. Lab. fee, $3. Five credits; any quarter.

Rigg.

CERAMICS

Mines Hall

See Mining, Metallurgy and Ceramics.
Courses in Chemistry

CHEMISTRY AND CHEMICAL ENGINEERING

Bagley Hall

Professors Benson, Johnson, Dehn, Smith, Tartar; Associate Professors Thompson, Lynn; Assistant Professors Beuschlein, Powell, Norris; Instructors Sivertz, Larson; Associates Radford, Jackson.

Instruction in this department is designed to satisfy as far as possible, the requirements of students who desire to study chemistry as a means of culture and as a necessary complement of a liberal education; but as the subject is eminently practical, it is also the desire of those in charge to guide the student so that he may fit himself for work in lines in which chemistry has become an applied science.

Requirements of the Department

Students wishing to specialize in chemistry may select one of the three courses: (1) the elective curriculum for those who want a general course in chemistry, leading to the degree of B.S. in the College of Science (see College of Science bulletin); (2) the suggested curriculum for those who intend to make use of chemistry as a vocation, leading to the degree of B.S. in Chemistry (see College of Science bulletin); (3) the prescribed curriculum in chemical engineering for those who plan to engage in manufacturing industries, leading to the degree of B.S. in Chemical Engineering (see College of Engineering bulletin). Courses 7, 8, 9, 10, 37, 38 and 39 may not be counted toward a major in the department.

The fee for each laboratory course is $6.50 a quarter. This covers general laboratory expense such as gas, water and depreciation. For purchase of chemicals and apparatus, each student is required to buy a breakage ticket when he obtains his locker key. The cost of the tickets is $5. Any unused portion will be refunded.

1-2. General Inorganic Chemistry.—Open only to students not having had accredited high school chemistry. Two lectures, one recitation and two 2-hour laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Thompson, Powell, Sivertz.

7. General Chemistry for Hospital Students.—Three recitations and two 2-hour laboratory periods. Any quarter. Five credits. Benson.

8-9-10. General Chemistry and Qualitative Analysis.—Open only to pharmacy students. The work in the spring quarter is qualitative analysis. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Lynn.

21-22. General Inorganic Chemistry.—Open only to students having accredited high school chemistry. Two lectures, one recitation and two 2-hour laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Thompson, Powell, Sivertz.

23. Elementary Qualitative Analysis.—Prerequisite, Chem. 2 or 22, or equivalent. Two lectures, one recitation and two 2-hour laboratory periods a week. Five credits a quarter; any quarter. Smith, Tartar, Thompson, Powell, Sivertz.

37-38-39. Organic Pharmaceutical Chemistry.—Organic chemicals of the U.S. Pharmacopoeia. Open only to pharmacy students. Prerequisite, Chem. 10 or its equivalent. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Johnson.

52. Chemical Technology.—Application of mathematics, physics, and chemistry to unit chemical operations. No fee. Prerequisites, Chem. 23, Physics 1 or 97 and Math. 61. Three lectures. Three credits; spring. Beuschlein.
Departments of Instruction

55. Forest Products.—Prerequisite, Chem. 2 or 22. Three credits; spring.

101. Advanced Qualitative Analysis.—Two lectures and three laboratory periods a week. Prerequisite, Chem. 23 or its equivalent. Five credits; autumn, spring.

104. Food Chemistry.—Methods of analysis of various foods and federal and state laws studied. Two lectures and two laboratory periods a week. Four credits; spring.

109. Quantitative Analysis.—Gravimetric analysis. Prerequisite, Chem. 23 or its equivalent. Two lectures and three laboratory periods a week. Five credits; autumn, winter.

110. Quantitative Analysis.—Volumetric analysis. Two lectures and three laboratory periods a week. Prerequisite, Chem. 109. Five credits; winter, spring.

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.

119. Industrial Chemistry for Engineers.—The study of water, sewage, iron, steel and cement from an evaluative standpoint. Prerequisite, Chem. 23 or equivalent. Three credits. Two lectures and one laboratory period. Winter.

121, 122, 123. Industrial Chemistry.—Autumn—fuel, gases, cements, refractories, iron, steel, and alloys; winter—processes for manufacture of acids, alkalies; spring—organic industrial chemistry, oils, fats, paints, rubber, cellulose products. Three lectures and two laboratory periods a week. Prerequisite, Chem. 52, 111 or equivalent. Five credits a quarter; autumn, winter, spring.

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.

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.

134. Manufacture of Industrial Organic Chemicals.—Manufacture of organic chemicals on a semi-commercial scale. Two laboratory periods a week. Prerequisite, Chem. 129 or 132. Two credits; autumn.

135-136. Organic Chemistry.—For home economics students. Only women are admitted. Three lectures and two laboratory periods a week. Prerequisite, Chem. 6, or its equivalent. Five credits a quarter; autumn, winter.

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.

144. Physiological Chemistry.—For fisheries and home economics students. Prerequisite, Chem. 129 or equivalent. Three lectures and two laboratory periods. Five credits; spring.
Courses in Chemistry

ADVANCED UNDERGRADUATES AND GRADUATES

*150. **Industrial Seminar.**


155. **Chemistry of Water.**—Study of natural waters with special emphasis upon sea water. Prerequisites, Chem. 111 or equivalent. Three credits. Two lectures and one laboratory period. Spring. 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. Prerequisites, Chem. 111 and 131 or equivalent. Three lectures and two laboratory periods. Five credits; autumn, winter. Norris.

163. **Physiological Chemistry.**—Study of normal and pathological blood and urine. For students of medicine, nurses, and clinical technicians. Prerequisites, Chem. 111 and 131 or equivalent. One lecture and two laboratory periods. Three credits; spring. Norris.

164. **Chemistry of Plant and Animal Tissues.**—Application of physiological chemistry to the study of biology. Prerequisites, Chem. 111 or 110 and 129. One lecture and two laboratory periods. Three credits; winter. Norris.

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. Norris.

166. **Biochemical Preparations.**—Preparations of special substances involving biochemical methods. Two to three credits; autumn, winter, spring. Norris.

171, 172. **Chemical Engineering.**—Basic operations common to chemical industries. Laboratory studies of typical apparatus. Three recitations and two laboratory periods. Prerequisite, Chem. 123. Five credits; autumn, winter. Beuschlein.

173. **Chemical Engineering.**—Continuation of Chem. 172. Three drawing periods a week. No fee. Prerequisites, Chem. 52, 123. Three credits; spring. Beuschlein.

176, 177, 178. **Chemical Engineering Thesis.**—Subject to the approval of the head of the department, the student selects a suitable topic for investigation, which will be directed by the instructor concerned. A conference hour must be arranged. Final report must comply with the regulations of the University Library. One to five credits a quarter. Fee, $1 per credit hour. Autumn, winter, spring. Benson, Beuschlein.

181, 182, 183. **Physical and Theoretical Chemistry.**—Fundamental principles and theories of chemistry accompanied by physico-chemical measurements. Prerequisites, one year (15 credits) college physics, and Chem. 110. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Tartar, Sivertz.

*190, 191. **History of Chemistry.**—(Offered every other year, alternating with 205, 206, 207.)

*Teachers' Course in Chemistry.—See Educ. 160B.

*Not offered in 1928-1929.
COURSES FOR GRADUATES ONLY

200. Departmental Seminar.—Required of all graduate students during residence. Assigned readings and reports on the chemical literature. No fee. One-half credit a quarter, maximum of two credits will be allowed to any student; autumn, winter. Powell.

201, 202, 203. Advanced Theoretical and Physical Chemistry.—(Offered every other year, alternating with 204, 215, 216.) An advanced course giving a detailed study of different phases of the subject. Prerequisites, one year (15 credits) of college physics, calculus, and Chem. 182. No fee. Three lectures. Three credits a quarter; autumn, winter, spring. Tartar.

*204. Chemistry of Colloids.—(Offered every other year, alternating with 201, 202, 203.)

205, 206, 207. Inorganic Preparations.—(Offered every other year, alternating with 190, 191.) Preparation of special substances involving representative laboratory methods. Any quarter may be taken independently. Credits and laboratory period to be arranged; autumn, winter, spring. Smith.

208, 209. Advanced Quantitative Analysis.—Special methods of analytical chemistry. Either quarter may be taken independently. Prerequisite, Chem. 111 or its equivalent. One lecture and two laboratory periods. Three credits; autumn, winter, spring. Smith.

210, 211, 212. Organic Preparations.—Preparation of special substances involving representative laboratory methods. Any quarter may be taken independently. Credits and laboratory periods to be arranged. $1 per credit hour. Autumn, winter, spring. Powell.

*215, 216. Advanced Theoretical and Physical Chemistry.—(Offered every other year, alternating with 202, 203.) Radioactivity, atomic structure, interrelation of the chemical elements, periodic system, energy exchange in atomic and molecular processes, activated molecules. Prerequisite, Chem. 182. Three lectures. No fee. Three credits; winter, spring. Tartar.

*219. Advanced Chemical Engineering.

221, 222, 223. Advanced Inorganic Chemistry.—Periodic system of the elements. Two quarters devoted to the elements and their ordinary compounds, and one quarter to the chemistry of the higher order compounds. Recommended for all majors and graduate students. No fee. Three credits a quarter; autumn, winter, spring. Smith.

230. Organic Analysis.—Special methods used in the analysis of organic substances. Prerequisites, Chem. 133 and 110. Laboratory periods to be arranged. Three or six credits; $1 per credit hour; autumn, winter. Thompson.

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.

236. Advanced Physical Chemistry Laboratory.—Advanced laboratory course in physico-chemical measurements. Work adapted to the interest and needs of the students and may include measurements in thermochemistry, electrochemistry, spectroscopy, ultramicroscopy, nephelometry, radioactivity, colloid chemistry, etc. Prerequisite, Chem. 182. One to five credits and laboratory periods to be arranged. Fee $1 per credit hour; any quarter. Tartar.

*Not offered in 1928-1929.
Courses in Civil Engineering

249. Graduate Seminar.—Assigned readings and reports dealing with special topics. Offered as desired by members of the different divisions of the department. Hours and credits to be arranged. No fee. Autumn, winter, spring.

250. Research.—The work in research is of three types: (1) Special investigations by advanced students under direction of members of the staff; (2) Research for the master's degree. Maximum credit nine hours. (3) Research for the doctor's degree under direction of any member of the senior staff of the department. Maximum credit forty-five hours. $1 per credit hour.

CIVIL ENGINEERING

Mines Hall

Professors More, Harris; Associate Professors May, Wilcox; Assistant Professors Miller, Collier, Hamilton; Instructor Van Horn


54. Topographic Surveys.—Field and office collection of information and platting of field notes for topographic surveys. For geology students. Lab. fee, $2. Three credits; spring.

55. Forest Surveying.—Practice with chain, compass and level. Use of bearings and distances in mapping. For forestry students. Lab. fee, $2. Two credits; winter.

56. Forest Surveying.—Plane surveying with reference to work in forestry. Orientation. Prerequisite, C.E. 55. Lab. fee, $2. Five credits; spring.

57. Curves and Earthwork.—Complete survey, map, profile and estimate of a railroad or highway project. Field and office practice in the use of horizontal and vertical curves; the measurement and computation of earthwork. Prerequisite, G.E. 21 or C.E. 56. Lab. fee, $2. Four credits; autumn.

58. Survey Office Practice.—Office practice in preparing completed drawings of surveys. Prerequisite, G.E. 21. Two credits; winter.


100. Plant Design.—Layout of construction plants and the design of special equipment. Prerequisite, C.E. 132. Two credits; winter.

106. Sanitation and Plumbing.—For architects. Two credits; winter.

120. Transportation Engineering.—An outline of the engineering features of the field of transportation. Prerequisite, C.E. 58. Two credits; autumn.

121. Transportation Engineering.—Theory and practice in the location and design of highways and railways. Prerequisite, C.E. 120. Four credits; spring.

123. Transportation Engineering.—Economics of railway and highway
location and construction. Problems in location, operation and maintenance. Three credits; autumn. J. W. Miller.

124. **Highways.**—Theory and practice in the design of highways and streets. Engineering considerations in the selection, improvement and maintenance of highway systems. Prerequisite, C.E. 121. Four credits; winter. J. W. Miller.

125. **Railways.**—The economic theory of railway location and operation. Gradient, curvature, distance, rise and fall. Prerequisite, C.E. 121. Three credits; winter. J. W. Miller.

127. **Yards and Terminals.**—Design and operation of railway freight and passenger yards, air and bus terminals. Prerequisite, C.E. 121. Three credits; spring. J. W. Miller.


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 hydro-statics. Prerequisite, C.E. 131. Lab. fee, $2. Five credits; autumn, winter, spring. Harris, Hamilton, Wilcox, Van Horn.

143. **Hydraulic Engineering.**—Complete projects presenting hydraulic engineering; hydrometric methods; economic design of pipes and spillways. Prerequisite, C.E. 142. Lab. fee, $2. Five credits; winter. Harris, Van Horn.

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; autumn. Harris.

147. **Hydraulic Power.**—Investigation of power development; generation of power; penstocks and turbines; types of installations. Prerequisite, C.E. 142. Three credits; spring. Harris.

150. **Sanitary Engineering.**—Relation of biology, bacteriology and chemistry to water supply and sewage. Elements of the design of water supply and sewerage systems and sewage disposal plants. Refuse collection and disposal. Industrial hygiene. Prerequisite, C.E. 142. Lab. fee, $2. Three credits; spring. Van Horn.


158. Sewerage and Sewage Treatment.—Design, construction, operation and maintenance of sewerage systems and sewage disposal plants. Prerequisite, C.E. 150. Lab. fee, $2. Three credits; spring. Van Horn.

159. Drainage, Waterways, and Flood Control.—Advanced study of large area drainage in connection with flood control. The design of artificial waterways. Prerequisite, C.E. 143. Two credits; spring. Harris, Van Horn.


172. Structural Analysis.—Steel.—Investigation of the stresses in riveted and welded steel structures and structural members. Prerequisite, C.E. 171, or permission. Three credits; winter. More.

173. Structural Analysis.—Timber.—Investigation of the stresses in timber structures and structural members. Prerequisite, C.E. 132, or permission. Three credits; spring. More.

175. Structural Design.—Reinforced Concrete.—Design of reinforced concrete structures and structural members. Prerequisite, C.E. 171. Four credits; autumn. More.

176. Structural Design.—Steel.—Design of welded and riveted steel structures and structural members. Prerequisite, C.E. 172. Four credits; winter. More.


181, 182, 183. Advanced Structural Analysis.—Investigation of the stresses and deflections in structures and structural members with particular reference to statically indeterminate cases. Seniors and graduates. Three credits; autumn, winter, spring. More.


192, 194, 196. Research.—Two to five credits; autumn, winter, spring. More.

198. Thesis.—Three to six credits; autumn, winter, spring. Staff.

199. Engineering Relations.—A study of business relations and economic conditions involved in engineering projects. Prerequisite, senior standing. Three credits; spring. May.

COURSES FOR GRADUATES ONLY

210, 212, 214. Research.—For graduates. Two to five credits; autumn, winter, spring. Staff.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.
Departments of Instruction

CLASSICAL LANGUAGES AND LITERATURE

Denny Hall

Professors Thomson, Sidey; Associate Professors Stone, Densmore; Assistant Professor Read; Instructor Ware; Associate Ballaine

Requirements for a major: at least 36 hours in the department, chosen from courses other than Greek 8-9-10, 11, 13, 14, 15-16; Latin 1-2-3, 4, 5, 6, 11, 14-15-16. At least fifty per cent of the hours in the major must be in upper division courses. A student specializing in Greek must take at least nine hours of Latin; one specializing in Latin must take at least ten hours of Greek. At the conclusion of the senior year all major students must take the senior examination.

1. GREEK

1-2. 3. Elementary Greek.—Translation from a wide range of Greek authors. An especial effort will be made to give students who take but one year of Greek an appreciation of its spirit and its bearing on the English language. A maximum of five credits a quarter. Densmore.

4. The Persian War Period.—Wide readings in Herodotus. Prerequisite, Greek 3. Three credits; autumn. Densmore.

5, 6. The World of Homer.—Readings from the story of Achilles and the wanderings of Odysseus on a background of a general study of the history of the period down to Hesiod. Prerequisite, Greek 4. Three credits; winter, spring. Densmore.

*8-9-10. Greek Art.

11. Greek Civilisation.—Institutional and cultural survey of the Greek world from the earliest times to the Roman conquest. Illustrated lectures, conferences and discussions. Knowledge of Greek not required. Upper division students may earn upper division credit by special work under the direction of the instructor. Five credits; spring. Densmore.

*12. Advanced Greek Civilisation.


15-16. Greek Civilisation and Literature.—Duplication of Greek 11, but including the literature in translation as a fundamental expression of the Greek genius. Knowledge of Greek not required. Open to freshmen only. Five credits a quarter; autumn and winter. Densmore.

101, 102, 103. The Periclean Age.—Greek civilization from the founding of the Delian Confederacy to the death of Socrates. Readings, conferences, and reports. Prerequisite, Greek 5 or equivalent. Three credits a quarter; autumn, winter, spring. Densmore.

104, 105, 106. Greek Poetry.—Lyric Poetry, tragedy, and pastoral poetry. Prerequisite, Greek 5 or equivalent. Two credits a quarter; autumn, winter, spring. Densmore.

151, 152, 153. Plato.—Intensive study of the Republic, the Laws (in part) and some of the shorter dialogues. Prerequisite, Greek 101, 102, 103. Three to five credits a quarter; autumn, winter, spring. Densmore.

*191, 192, 193. Literary Criticism in Connection with Sophocles.

*Not offered in 1928-1929.
Courses in Latin

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. Read.

4, 5, 6. Cicero or Vergil.—Prerequisite, two years high school Latin or Latin 1-2-3 in the University. May be substituted for the requirement in ancient language, life and literature. Qualifies a student for Latin 21. Review of grammar and syntax. Selections from Cicero or Vergil. Five credits a quarter; autumn, winter, spring. Ware.

8. Law Latin and Selections from Roman Law.—Prerequisite, at least two years of high school Latin or its equivalent. In rare cases the consent of the instructor is sufficient. Primarily for pre-law students, but open to others also. Five credits; autumn. Ware.

*9. Law Latin and Selections from Roman Law.

*10. Law Latin and Selections from Roman Law.

11. Roman Civilization.—Class-room work two days a week on the private life of the Romans, with lectures on the alternate days illustrating the part played in history by the Romans, and their contributions to modern civilization. Collateral readings and reports. No knowledge of Latin required. Five credits; autumn (open to entering freshmen only); winter (open to all); spring (open to all). Stone, Ware.

13. Roman Literature.—The masterpieces in English translation. Knowledge of Latin not required. Five credits; autumn, winter, spring. Read.

14-15-16. Roman Art.—Roman architecture for two quarters, followed by sculpture, numismatics and minor arts. Illustrated by photographs and slides. Primarily for students of Fine Arts, but open to all. Alternates with the course in Greek Art. One credit a quarter; autumn, winter, spring. Sidey.

Note.—To enter courses 21 to 25, the student is expected to be thoroughly familiar with the declensions and conjugations and with the normal phenomena of Latin syntax to be found in Caesar, Cicero and Vergil.

21. Cicero: De Senectute; Latin Literature (Mackail).—With some exercises in grammar and composition. Careful attention to English translation. Prerequisite, three and one-half years' high school Latin; five credits; autumn. Sidey.


*23. Vergil: Georgics and Bucolica; Latin Literature (Mackail).

24. Sallust: Catiline and Jugurtha; Latin Literature (Mackail).—With some exercises in grammar and composition. Prerequisite, three and a half years of high school Latin. Three or five credits; winter. Sidey.

25. Ovid.—With some exercises in grammar and composition. Selections, chiefly from the Metamorphoses, with some study of the same myths as they appear in English literature: Latin Literature (Mackail). Prerequisite, three and a half years of high school Latin. Five credits; spring. Sidey.

100. Livy.—One book and selections from the other books. Prerequisite, Latin 21, 24, 25, or special permission. Five credits; autumn. Stone.

*Not offered in 1928-1929.
101. *Horace.*—Selections from the complete works. Prerequisite, Latin 21, 24, 25 or special permission. Five credits; winter. Stone.

102. *Tacitus:* *Agricola,* *Martial; Epigrams.* (Selections).

103. *Plautus and Terence.*—Selected Plays. Prerequisite, Latin 21, 24, 25 or special permission. Five credits; spring. Stone.

106. *Syntax and Prose Composition (Advanced).*—Students should, if possible, register for this course in combination with Education 160C, as the work of the two courses is closely correlated. Prerequisite, Latin 100 or 101 or 102 or equivalent. Three credits; autumn. Stone.

107. *The Age of Cicero.*—Selected portions of Cicero's correspondence, with collateral reading. Prerequisite, Latin 100 or 101 or 102 or equivalent. Three credits; winter. Stone.

108. *Vergil's Aeneid.*


113. *Roman Home Life and Religion.*—Selections from Rogers and Harley's text, with collateral reading and reports. Prerequisite, Latin 100 or 101 or 102 or equivalent. Three credits; spring. Stone.

151. *Cicero: Tuscan Disputations and Seneca: Moralía.*—Two to five credits; winter. Sidey.

152. *Quintilian: Book X and Horace: Ars Poética.*—Two to five credits; spring. Sidey.


155. *Cicero: De Oratore or Orator and Pro Plancio.*

185, 186. (285, 286). *Vulgar Latin.*—Vocabulary and syntax; relation to archaic Latin, literary Latin, and especially to the Romanic languages. Reading of texts, with additional work adapted to the needs of individual students. Undergraduates will register under numbers 185 and 186, graduates under numbers 285 and 286. Prerequisite, at least four quarters of college Latin and three years (or six quarters) of either French, Spanish, or Italian. Three to five credits each quarter; winter and spring. Stone.

*Not offered in 1928-1929.*
Courses in Dramatic Art

All courses in the department, with the exception of 101-102-103 and 107-108, may be entered at the beginning of the first, second or third quarters.

5. Phonetics, Elementary Course.—The sounds of spoken English analyzed as a basis for correcting racial, regional, class and individual defects. Articulation, pronunciation and ear training practice. Use of phonetic dictionary, cultivation of the speaking voice. Five credits; autumn, winter, spring.

Crawford.

9, 10. Theater Backgrounds.—A general introduction to the study of the modern theater and drama. Two credits; autumn, winter. Lovejoy.

61, 62, 63. Dramatic Interpretation.—Selected plays are used as exercises in dramatic delivery and for the study of effectiveness in the reading of lines. Five credits a quarter; autumn, winter, spring.

Lovejoy, Blanchard, Conway.

101-102-103. Play-acting.—Practical course in the art of acting. Interpretation of standard and original plays. One lecture and two 2-hour laboratory periods a week. Prerequisite, Dram. Art. 5. Fee, $1. Three credits a quarter; autumn, winter, spring.

Lovejoy, Blanchard.

104, 105, 106. Theatre Workshop.—Construction of model and actual stage settings, properties, costumes, masks, stage lighting, general mechanics of the theatre. Two hours lecture, and four hours laboratory. Lab. fee, $2. Four credits a quarter; autumn, winter, spring.

Conway.

107-108. Advanced Phonetics.—A continuation of D.A. 5. Study of intonation. The oral study of literature. Mastery of foreign sounds. The purpose of this course is to make good speech natural and spontaneous in reading, speaking and acting. Prerequisite, Dram. Art 5. Five credits a quarter; autumn, winter, spring.

Conway.

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.


133. Staging of Shakespeare.—Designed to give the student a working knowledge of Shakespearean production. One play will be studied each quarter and entire plan of production covered. Cutting, interpretation, stage business, costuming, properties and scenery. Three credits; spring. Lovejoy.

151, 152, 153. Representative Plays.—Origin and development of the drama. Representative plays of all important periods and countries are studied and discussed. Three credits a quarter; autumn, winter, spring. (May receive credit in English.) Hughes.

Teachers' Course in Dramatic Art.—See Educ. 160L.

Other Courses Which May Receive Credit in Dramatic Art

English 40. Essentials of Speaking.—Five credits; autumn winter, spring.

English 41. Advanced Speaking.—Three credits; winter, spring.
ECONOMICS AND BUSINESS ADMINISTRATION

Commerce Hall

Professors Cox, Gould, Preston, Dakan, Coon, Frame, Burd, Skinner, Leib; Associate Professors Eldred, Smith, McMahon, Renner, Gregory; Assistant Professors McIntyre, Ashley, Rice; Lecturers McConahey, Robertson, Davis, Draper, Truax; Associates Grant, Foiste; Instructors Van de Walker, Hamack, Miller, Calhoun, Graves, Purdy.

Economics.—Courses 1, 2, 3, 61, 124, 129, 160, 164, 166, 168, 169, 171, 181, 201, 205.

Accounting.—Courses 62, 63, 64, 65, 110, 111, 112, 154, 155, 156, 157, 158, 184, 185, 191.

Business Correspondence.—Course 115.

Business Law.—Courses 54, 55, 56.

Finance.—Courses 103, 105, 121, 122, 125, 126, 127, 159, 176, 189, 197.


Insurance.—Courses 108, 139, 141, 142, 149, 170.

Labor.—Courses 60, 120, 128, 161, 162, 165, 166, 167, 207.

Management.—Courses 130, 163, 167, 172, 196.


Public Utilities.—Courses 131, 132, 133.

Secretarial Work and Commercial Teaching.—Courses 15, 16, 18, 19, 81, 82, 83, 102, Edu. 160D, Edu. 160DD.

Statistics.—Courses 59, 175, 177.

Transportation and Maritime Commerce.—Courses 42, 49, 50, 51, 52, 67, 104, 107, 113, 114, 119, 149, 150, 151, 152, 195.

(B.A. 1 and 2 are absolutely prerequisite for all B.A. courses except with permission of the dean.)

1, 2. General Economics.—General principles of economics. Fee, $.50. Five credits; autumn, winter, spring. Cox, Preston, Smith.

3. General Economics.—Same as B.A. 1 above, abbreviated for students in chemistry, pharmacy, forestry, fisheries and engineering. Fee, $.50. Three credits; spring. Skinner.

7. Geographic Backgrounds of Industry.—A study of the environmental laws underlying the distribution of the major classes of raw materials; industrial organization in resource use; conservation of resources; factors locating industries; and the geographic laws of trade. (B.A. 1 not prerequisite.) Fee, $.50. Five credits; autumn, winter, spring. Renner and assistants.

15. Typewriting I.—Fundamental principles of typewriting. Fee, $10. No credit; autumn, winter, spring. Hamack, Swift, Graham.
Courses in Economics and Business Administration

16. Typewriting II.—Devoted to increasing the speed of the student on the typewriter. Fee, $10. No credit; autumn, winter, spring.
   Swift, Hamack, Graham.

   Hamack, Swift.


42. Wharf Management and Storage.—Wharf efficiency and shipping profits; wharf layout and construction; wharf office organization; methods of cargo transfers; types of cranes and derricks; stowage and the stowage plan; warehousing and storage. Fee, $.50. Five credits; autumn.
   Hamack.

49. Ship Operation.—Types of vessels, with reference to materials and methods of construction, stress and stability of hulls, methods of propulsion, measurement and stowage of cargo. Fee, $.50. Five credits; autumn, winter. (B.A. 1 not prerequisite.)
   Gould.

50. Navigation.—Navigational instruments; compass deviation; piloting; dead reckoning; great circle sailing; moon's phases and tidal effects. Prerequisite, Math. 4. Fee, $.50. Three credits; autumn.
   Commander Rice and staff.

51. Navigation.—Sextants; chronometers; equinoctial system; sidereal, apparent and mean time; horizon system; corrections of sextant altitudes; observations of sun, moon, planets, and stars for latitude. Prerequisite, B.A. 50. Fee, $.50. Three credits; winter.
   Commander Rice and staff.

52. Navigation.—Solution of the astronomical triangle; lines of position; navigator's work at sea (the day's work). Prerequisite, B.A. 51. Fee, $.50. Three credits; spring.
   Commander Rice and staff.

54. Business Law.—General introduction to municipal law, including jurisdiction of courts, pleading and procedure, etc., preparatory to reading of cases. Primary consideration is given in this and B.A. 55 and B.A. 56 to the law of contracts and sales of personal property, with incidental treatment of such subjects as damages, remedies, negotiation, business associations, etc., developed in discussion from an analysis of cases and problems. The course is designed to train the student in the analysis and solution of legal problems in ordinary business relations. Prerequisite, sophomore standing. Fee, $.50. Three credits; autumn, winter, spring.
   Ashley.

55. Business Law.—Continuation of B.A. 54 as outlined. Prerequisite, B.A. 54. Fee, $.50. Three credits; autumn, winter, spring.
   Ashley.

56. Business Law.—Continuation of B.A. 54 and B.A. 55, but may be taken with prerequisite of B.A. 54 only. Fee, $.50. Three credits; autumn, winter, spring.
   Ashley.

59. Graphic and Tabular Analysis of Business Problems.—Application of statistical method to business and economic problems. Design and execution of diagrams, maps and tables for effective presentation of statistical results. Analysis of collected material. Prerequisite, Math. 13 or its equivalent at option of instructor. Fee, $.50. Five credits; autumn.
   Eldred.

60. Labor in Industry.—An historical survey of labor problems arising out of changing industrial conditions. Methods used by industrial and social agencies in meeting these problems. Fee, $.50. Five credits; autumn, spring.
   McMahon.

62. **Principles of Accounting.**—Functions of accounts; trial balances; balance sheets; profit and loss statements; books of original entry; ledgers; business forms and papers. Fee, $.50. Five credits; autumn, winter, spring. Draper, Van de Walker and assistants.

63. **Principles of Accounting.**—Accounts peculiar to partnerships and corporations; correct classification of accounts; manufacturing and cost accounts; controlling accounts and subsidiary ledges; voucher systems. Prerequisite, B.A. 62. Fee, $.50. Five credits; autumn, winter, spring. Draper, Van de Walker and assistants.

64. **Principles of Accounting.**—Accounting analysis and control; construction and interpretation of accounting standards and measures; analysis of financial statements from management standpoint; problems in report writing. Prerequisite, B.A. 63. Fee, $.50. Five credits; autumn, winter, spring. Gregory, Van de Walker and assistants.

65. **Accounting Survey.**—An elementary survey of the construction and interpretation of accounts; a service course designed solely for students in other colleges who have only one quarter available for accounting; not open to Business Administration students. Fee, $.50. Five credits; winter. Van de Walker.

67. **Paper Work in Shipping.**—Forms used in documentation, entering and clearing, and in making coastwise and foreign shipments, with the solution of a number of practice problems. Fee, $.50. Five credits; autumn, winter, spring. Gould.

81-82. **Secretarial Training I and II.**—For students who have a thorough knowledge of shorthand and typewriting, covering the responsibilities placed on the secretary in handling correspondence, letter writing. Prerequisites, B.A. 16 and 19. Fee, $5. Five credits; autumn, winter. Harnack.

83. **Office Training and Practice.**—General principles of business conduct, ethics of the office, shipping, filing systems, and general handling of work to be assigned as nearly like actual office work as possible. Prerequisites, B.A. 81-82. Fee, $5. Three credits; spring. Hamack.

102. **Office Management.**—The office manager's problems of office administration. Attacks the problem of office control by the various activities and studies each in relation to all the others. Fee, $.50. Five credits; winter. Draper.

103. **Money and Banking.**—Introductory course. Functions of money; standards of value; financial conditions, and principles of banking with special reference to the banking system of the United States. Fee, $.50. Five credits; autumn, winter, spring. Preston.

104. **Economics of Transportation.**—Relation of transportation to industry and society; development and present status of American transportation systems; organization of the service; traffic associations; classification territories; routes; traffic agreements; rates and regulations. Fee, $.50. Five credits; autumn, spring. Frame.

106. *The Economics of Marketing and Advertising.*—Development of economic principles in marketing and advertising; market processes and systems; the middlemen and their functions. Fee, $.50. Five credits; autumn, spring.

107. *Traffic Management.*—A study of the traffic problems of American railroads, including classifications, the rate structures of the chief rate-making territories and such matters as import and export rates, reconsignment and diversion, demurrage and claims. Fee, $.50. Five credits; winter.

108. *Risk and Risk Bearing.*—The risk factor in its economic and social consequences; ways of meeting risk; the general broad outline of life, fire and other insurance. Fee, $.50. Five credits; winter.

109. *Advertising Principles and Practice.*—What advertising is and does; the advertising department; the advertising agency. Prerequisite, B.A. 106. Fee, $.50. Five credits; spring.

110. *Advanced Accounting.*—Valuation of balance sheet and revenue statement items; surplus and reserves; dividends; sinking funds; liquidation of partnerships and corporations; consolidated balance sheets; reports of trustees and receivers. Prerequisite, B.A. 64. Fee, $.50. Five credits; autumn, winter, spring.

111. *Advanced Accounting.*—Advanced partnership and corporation accounting; nature of profits; dividends; the legal status of same; statement of affairs; realization and liquidation accounts. Fee, $.50. Prerequisite, B.A. 110. Five credits; autumn, winter, spring.

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. Prerequisite, B.A. 111. Fee, $.50. Five credits; autumn, winter, spring.

113. *Ports and Terminals.*—Factors of a well coordinated port; modern terminal facilities; representative river, lake and sea ports. Fee, $.50. Three credits; spring.

114. *Aerial Navigation.*

115. *Business Correspondence.*—Business letters; analysis of principles; development of judgment on points of business policy. Prerequisites, English 1 and junior standing. Fee, $.50. Five credits; autumn, winter, spring.

117-118. *Exporting and Importing.*—Principles and 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, $.50. Five credits each; winter, spring.

119. *Water Transportation.*—Economics of shipping with particular reference to organization and management; ship building and operating costs; rate practice and control, pools, agreements, conferences; ocean routes; shipping subsidies, etc. Fee, $.50. Five credits; winter.

120. *Industrial Relations.*—Analysis of modern labor conditions; changing relationships of labor, management, investor group, and the public. Appraisal of methods used to enlarge common interest and diminish conflict between groups. Fee, $.50. Three credits; autumn.

*Not offered in 1928-1929.*
Departments of Instruction


122. Principles of Investment.—A study of the underlying principles of investment credit; and a description of the origin and purpose of the various credit instruments used; the selection of sound investments; the investment policy of individuals and institutions; care of investments; investment market and its relation to the money market. Prerequisite, B.A. 103. Fee, $.50. Five credits; spring. Dakan.

124. Public Finance.—The growth of public expenditures in modern times, the sources of public revenue other than taxation, and the general principles underlying public credit; government ownership of industries, including public utilities, financial aspects of the public land policy, national subsidies to state projects, special assessments, budgetary procedure, and a brief study of some outstanding episodes in the financial history of the United States. Fee, $.50. Five credits; autumn. Eldred.

125. Bank Administration.—Methods and machinery of bank operations. Internal organization of the bank; relation of the different functions; accounting methods; finding costs for the bank; problems of bank administration. Prerequisites, B.A. 63, 103. Fee, $.50. Five credits; winter. Dakan.

126. Commercial Credit.—Extension of credit; the credit department; sources of information; credit analysis; credit insurance; practical problems. Prerequisite, B.A. 64, 103. Fee, $.50. Five credits; autumn. Dakan.

127. Foreign Exchange and International Banking.—Theory of international exchange; rates of exchange; financing imports and exports; specie movements; foreign money market factors; foreign banking by American institutions; financing foreign trade; present status of foreign exchange. Prerequisite, B.A. 103. Fee, $.50. Five credits; autumn. Preston.

128. Human Waste in Industry.—Unemployment; the labor surplus; regularization of employment; personal injuries and accident prevention; unrest and instability. Measurement of wastage; methods of elimination. Fee, $.50. Three credits; spring. Foisie.

129. Taxation.—The general principles of taxation followed by a somewhat detailed study of American tax methods, with chief emphasis upon the revenue problems of state and local governments. Consideration will be given to the aggregate burden of taxation in relation to national wealth and income, the respective merits of taxation and borrowing, constitutional limitations, administrative control of assessment methods, the single tax, etc. Fee, $.50. Five credits; winter. Eldred.

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, $.50. Five credits; autumn and winter. McIntyre.

131. Economics of Public Utilities.—A development of the fundamental economic theory of public utilities. Their economic basis, nature of competition, the price bargain, taxation, control over service, government enterprise and problems created by joint, differential and overhead costs. Fee, $.50. Five credits; autumn. Leib.

132. Management of Public Utilities.—Administrative problems of loca-
Courses in Economics and Business Administration

133. **Control of Public Utilities.**—Growth and activities of regulatory bodies and commissions. Relation of restriction to public welfare, competition and monopoly under modern business conditions, municipal ownership with its incidental problems. Fee, $.50. Five credits; spring. Leib.

134. **Marketing Problems.**—Application of principles to problems in wholesale and retail distribution, price policies and sales. An advanced course in marketing. Prerequisite, B.A. 106. Fee, $.50. Five credits; autumn. Leib.

135. **Marketing of Northwest Products.**—Methods of marketing wheat, apples, lumber, poultry and other products of the Pacific Northwest; comparative studies; physical facilities. Organized field trips. Prerequisite, B.A. 106. Fee, $.50. Five credits; autumn. Miller.

136. **Market Analysis.**—Product analysis; price policies and sales strategy; sales promotion methods. Prerequisite, B.A. 106. Fee, $.50. Five credits; winter. Burd.

137. **Advertising Campaigns.**—Advertising appeals and their presentation; advertising media and their selection; appropriations; campaign plans. Prerequisite, B.A. 106. Fee, $.50. Five credits; spring. Burd.

138. **Sales Management.**—Sales plans; establishing sales policies; constructing sales machinery; supervising sales forces. Prerequisite, B.A. 106. Fee, $.50. Five credits; winter. Burd.

*139. **Social Insurance.**

140. **The Cooperative Movement.**—Examination of the more successful cooperative ventures in the United States; recent tendencies; cooperative buying groups; cooperative advertising. Prerequisite, B.A. 106. Fee, $.50. Five credits; winter. Miller.

141. **Fire Insurance.**—Theory and practice of fire insurance; study of the clauses in standard fire policies; apportionment of losses; rate making; fire prevention. Prerequisite, B.A. 108. Fee, $.50. Five credits; autumn. Smith.

142. **Life Insurance.**—Functions of life insurance; premiums; reserves; kind of companies and policies; dividends; lapses. Disability, group and industrial insurance. State regulations of life insurance business. Prerequisite, B.A. 108. Fee, $.50. Five credits; spring. Smith.

143. **Trade of the Far and Near East.**—Economic conditions 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, and trade relations of these regions with the rest of the world, especially the United States. Prerequisite, B.A. 7. Fee, $.50. Five credits; winter. Skinner.

144. **Trade of Europe.**—Economic conditions of Europe (and Africa), and the trade relations of these sections with the rest of the world, especially the United States. Prerequisite, B.A. 7. Fee, $.50. Five credits; spring. Skinner.

145. **Trade of the Americas.**—Economic conditions of Canada, Mexico, and Central and South America, and the trade relations of these regions

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* Not offered in 1928-1929.
Departments of Instruction

with the rest of the world, especially the United States. Prerequisite, B.A.
7. Fee, $.50. Five credits; autumn.

146. Retail Sales Problems.—Fundamental principles underlying retail selling. Problems of constructive merchandising, display advertising, personnel, and the consumer from the point of view of the sales manager and the selling force. Prerequisite, B.A. 106. Fee, $.50. Five credits; autumn.

147. Retail Buying Problems.—The scientific and ethical principles underlying retail buying. Problems of the buyer in relation to customer demand, market, stock control, technique of buying, sales force, sales promotion, net profit. Prerequisite, B.A. 106. Fee, $.50. Five credits; winter.

148. Retail Store Organization Problems.—Fundamental principles underlying departmentalization; financial, personnel, merchandising, publicity and administrative organization. Prerequisite, B.A. 106. Fee, $.50. Five credits; spring.

*149. Marine Insurance.

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. Fee, $.50. Five credits; spring.

151. Rail and Marine Rates.—Principles of rate making, and interpretation of federal and state statutes affecting rail and water rates; influence of competitive forces; traffic geography; classifications; rate adjustments; survey of decisions of commissions and courts, interstate and local rate problems. Prerequisite, B.A. 104. Fee, $.50. Five credits; autumn.

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 owners; duties of consular officials; administration of navigation laws. Fee, $.50. Three credits; spring.

154. Cost Accounting I.—Organization of cost department; relation of cost to other departments; production factors; cost finding methods; material and labor records; preparation of operating statements. Prerequisite, B.A. 112. Fee, $.50. Five credits; winter.

155. Cost Accounting II.—Production and service departments; distribution of manufacturing expense; preparation of cost reports in planning and controlling production; standard costs, etc. Prerequisite, B.A. 112. Fee, $.50. Five credits; spring.

156. Auditing.—Auditing procedure; balance sheet audits; analysis of asset and liability values; profit and loss statement audits; analysis of income and expense; certifications and reports; classifications of audits and investigations. Prerequisite, B.A. 112. Fee, $.50. Five credits; autumn.

157. Income Tax Accounting.—Government decisions affecting the practical determination of taxable income; persons, corporations, partnerships subject to tax; exemption and exception; deductions and allowances; preparation and analysis of returns. Prerequisite, B.A. 112. Fee, $.50. Five credits; winter.

158. Managerial Accounting.—Organization and duties of the account-

* Not offered in 1928-1929.
Courses in Economics and Business Administration

159. Advanced Money and Banking.—Selected topics in monetary science and business finance; value of money; financial effects of the great war; the Federal Reserve system; agricultural credit; business cycles. Prerequisite, B.A. 103. Fee, $.50. Five credits; spring. Preston.

160. Advanced Economics.—A study of economic thought centering about the Neo-classical theories of value and distribution and the validity of this thought under present conditions. Prerequisite, 120 credits. Fee, $.50. Five credits; autumn, winter, spring. Coon.


162. European Labor Problems.—Labor movements of modern Europe; economic and political backgrounds, in relation to types of labor organizations. Fee, $.50. Five credits; autumn. McMahon.

163. Industrial Management.—Problems of promotion and location of industrial plants. Selection of site, layout of processes, and control of material. Types of buildings, lighting, safety appliances, economic and psychological effect of scientific management. Fee, $.50. Five credits; autumn. Leib.

164. Land Economics and Real Estate.—Economic principles underlying the utilization of land and other natural resources, with consideration of the public policies appropriate thereto. Problems of land reclamation and settlement, systems of tenure, valuation, credit, taxation and conservation; brief study of economic forces influencing city growth and urban land values as a foundation to the intelligent understanding of the real estate business. Fee, $.50. Five credits; spring. Eldred.


166. Women in Industry.—The evolution of women's work; relative importance of women in industry; social reaction in labor legislation. Fee, $.50. Two credits; winter. 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, $.50. Five credits; winter. Leib.

168. Development of Economic Thought.—A study of the contributions of the classical and Neo-classical economists and their contemporary critics. Primary sources will be used and attention will be given to the industrial, social, and political background of economic thought. Prerequisite, 135 credits. Fee, $.50. Five credits; autumn, spring. Coon.

*169. Principles of Real Estate.

170. Casualty Insurance.—Study of real estate transactions, interests, liens, sales, transfers, mortgages, valuations, title, credit, fidelity, automobile,
tornado, and miscellaneous forms of property and liability insurance. Prerequisite, B.A. 108. Fee, $.50. Five credits; winter. Smith.

171. Modern Trends and Criticism.—A study of present day criticisms of “orthodox theory” and a consideration of modern tendencies and controversies in economic thought. Prerequisite, 135 credits. Fee, $.50. Five credits; winter. Coon.

172. Executive Technique.—Internal organization of the business, departmental organization and coordination; various systems of management; use of reports and charts and consideration of problems presented by local industries. Fee, $.50. Five credits; spring. Leib.


175. The Business Cycle.—A brief study of the evidences of regularity in the characteristic fluctuations of business activity, with some consideration of the normal effects of the business cycle upon economic life and economic theory. Prerequisite, B.A. 59. Fee, $.50. Five credits; winter. Eldred.


177. Business Forecasting.—Application of the methods of economic statistics to the problem of forecasting business conditions; analysis of the various business forecasting services; reports upon assigned problems. Prerequisite, B.A. 59. Fee, $.50. Five credits; spring. Eldred.

181. Economics of Consumption.—Historical development of human wants in relation to the economic laws of consumption; influence on the production and distribution of wealth. Attempts to control consumption through private and governmental agencies. Fee, $.50. Five credits; spring. McMahon.

184. Auditing Technique.—Prerequisite, B.A. 112. Fee, $.50. Five credits; autumn, winter, spring. Robertson.


188 ABC. Apprenticeship in Merchandising.—Students are placed full time in autumn and spring quarters in actual business. Three-six credits; autumn, winter, spring. Grant.

189. Bank Credit Administration.—A study of the administration of bank credit based on actual problems selected from portfolio of Pacific Northwest banks. Fee, $.50. 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, Frame.

196 ABC. Research in Management.—Two-five credits; autumn, winter, spring. Leib, Gregory.
Courses in Education

197 BC. Research in Finance.—197B, attention given to international financial reconstruction. 197C, attention to monetary and price theory. Two-five credits; winter, spring. Preston.

198 BC. Research in Marketing and Advertising.—Two-five credits; winter, spring. Burd, Miller.

Courses for Gradsuates Only

201 ABC. Graduate Seminar.—Three credits; autumn, winter, spring. Cox.

205 ABC. Seminar in Value and Distribution.—Prerequisite, B.A. 160 or equivalent. Three credits; autumn, winter, spring. Coon.

207 ABC. Seminar in Labor.—Discussion of case material; individual conferences and supervision in field of research. Opportunities for investigation of labor problems in our basic Northwest industries. Three credits; autumn, winter, spring. Foisie.

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 Hall

Professors Uhl, Bolton, Randolph; Associate Professors Jessup, Williams; Assistant Professors Dvorak, Draper, Bishop; Associates Corbally, Foster and Assistants.

Note: All special teachers' courses are listed and numbered as education courses.

Courses 101 or 102 are open to sophomores who have received 65 credits in college courses. One is prerequisite to all other courses in education for all students except college graduates and students entering from normal schools. Of the remaining courses in this group (1), 119 and 140 should be taken during the junior year. These courses are prerequisite to 145 which should be planned for the autumn or winter terms of the senior year. Placements for the spring term are limited. Courses 101 or 102, 119, 140 and 145 and one teachers' course in a special subject, numbered 160, are regularly required for the five-year normal diploma. Normal school students are not permitted to take courses 101 or 102, 140 or 145. They are required to take 119, 150, 152, and from group (2) five credits in courses numbered above 150.

As a result of a petition by the students an education library fee of 50 cents is charged each student for each course in education, except in courses 150, 160D, 160DD, 160Z, 196-197-198, 285-286-287. According to the agreement, students will not be required to purchase more than one text book in any one course.

I. Elementary Courses

101. Introduction to the Study of Education.—General course covering the field of education. Open to sophomores who have earned 65 credits.
Course 101 or 102 or approved equivalent is prerequisite to all other courses in education, except for normal school and college graduates or others who have had approved equivalent elsewhere. Five credits; autumn, winter, spring, summer.

102. Elementary Educational Psychology.—An elementary study of the psychology of pupils to determine the types of materials for the curriculum, the most advantageous periods for learning, and the laws of economic learning. Special emphasis upon adaptation to native endowment and individual differences. Open to sophomores who have earned 65 credits. Course 101, or 102, or approved equivalent, is prerequisite to all other courses in education, except for normal school and college graduates or others who have had approved equivalents elsewhere. Five credits; autumn, spring, summer. Bolton.

119. Secondary Education: Problems of the High School Teacher.—Problems of the high school. The history of secondary education in the United States is taken up as a background for problems of articulation, guidance, individual differences, etc. Present day characteristics and objectives of the high school are considered and recent tendencies in curriculum construction noted. Prerequisite, Educ. 101 or 102 or approved equivalent. Three credits; autumn, winter, spring, summer. Bolton.

140. Psychology of Teaching Methods.—An attempt to discover the psychological foundation of methods. The application of these to concrete illustrations of teaching. Especially applied to high school instruction. Should be taken during the junior year. Prerequisites, Educ. 101, or 102, 119 or approved equivalent. Students who plan to take 140 and 150 should take 150 first. Five credits; autumn, winter, spring. Draper.

145. Practice Teaching.—One lecture a week, conferences with the instructor, assigned readings, and one period each day devoted to observation and practice teaching under supervision in the Seattle city schools. Prerequisites, Educ. 101, or 102, 119, 140 or approved equivalent. Five credits. (For Phys. Educ. major, one to five credits any quarter. Hours; select either M.W. 1-3 or T.Th. 10-12). Application for practice teaching placement must be made before June of the junior year. Prerequisites, Educ. 101, or 102, 119 or approved equivalent. Students who plan to take 140 and 150 should take 150 first. Five credits; autumn, winter, spring. Hughes.

146. Practice Teaching II.

Courses 101 or 102 and 140 are prerequisite, except as stated above, to Courses 160A to 160Z. One of the "teachers' courses" is required for the normal diploma.

160A. Teachers' Course in Botany.—Discussion of texts, subject matter and methods of presenting the subject. Prerequisite, two years of botany. Two credits; autumn. Frye.

160B. Teachers' Course in Chemistry, Laboratory Methods of Instruction.—No lab. fee. Prerequisite, at least 20 credits of college chemistry of average B grade. Two credits; autumn, winter, spring.

160C. Teachers' Course in Latin.—Methods and problems in the teaching of high school Latin. Prerequisites, Latin 100 or 101 or 102. Except by special arrangement this course must be taken in combination with Latin 107. Two credits; autumn. Stone.

*Not offered 1928-1929.
Courses in Education

160D. Commercial Teachers' Course.—Typical business courses are examined and made the basis for discussions on needs of local business conditions. Study of the content of high school commercial courses and of texts. Prerequisites, twenty-five hours of the thirty-five required for a major in commercial teaching, including fifteen hours in accounting and B.A. 16, 19. Fee, $1.50. Five credits; spring. Two hours only count as education credits; three hours as business administration. Draper.

160DD. Teachers' Course in Shorthand and Typewriting.—To prepare students for teaching shorthand and typewriting. Correlation of this work with actual work in business houses. Prerequisites, twenty-five hours of the thirty-five required for a major in commercial teaching, including B.A. 16, 19, 81 and 82. Fee, $1.50. Five credits; spring. Two hours only count as education credit, three hours as business administration. Harnack.

160E. Teachers' Course in English.—Methods and problems in the teaching of English in the high school. This course or 160EC and 160EL are required of majors in English for a normal diploma. Students failing in an examination on English composition given at the beginning of this course will be required to earn credit for 160EC before entering 160E. Two credits; autumn, winter, spring. Sperlin.

160EC. Composition in the High School.—The materials and methods of teaching composition to secondary school students. Two credits; autumn, winter.

160EL. English Literature in the High School.—A study of the classics accepted for entrance to the University from the point of view of their interpretation and of their presentation to high school students. Two credits; spring. Sperlin.

160F. Human Geography in the Public Schools.—A survey of the present day content of the science of geography, together with the methods of presenting it in grade school and high school teaching; regional, industrial and commodity geography, and geography's relation to the social sciences are considered. Two credits; spring. Renner.

160G. Teachers' Course in German.—Aims and methods of teaching German; preparation of the teacher; lesson plans; tests; courses of study for high schools: textbooks and aids in teaching; realia in German; observation in elementary classes. Prerequisite, Ger. 110; or consent of instructor. Two credits; spring. Meinsnest.

160H. Methods of History Teaching.—With special reference to the work of the high school. Required of majors in history who expect to teach. Prerequisite, History 160. Two credits; winter. McMahon.

160I, 160J. Teachers' Course in Home Economics.—Curricula, methods of teaching and equipment. Prerequisite, H.E. 5, 116, 112, 113, 143, 144, 145; Arch. 1, 2; Physics 89-90; Bact. 101. Three recitations. Three credits each quarter; only two credits counted toward the normal diploma, the other three credits are counted in home economics. Autumn, winter. McMahan.

160K. Teachers' Course in News Writing.—Methods and lesson plans for a news writing class in high school. Prerequisites, Jour. 51, 101, 115, 120. Two credits; spring. Raitt, Denny.

160L. Teachers' Course in Dramatic Art.—Two credits; spring.

Prerequisite, Math. 109. Three credits; (Two credits in education, one credit elective); spring. Jerbert.

160N. Teachers' Course in Music Education.—A study of principles and methods in teaching music in the public schools. Prerequisite, Music 113, 114. Two credits; spring. Newenham.

160O. Civics in Secondary Schools.—Attitude of approach, arrangement of material, methods of presentation; development of an appreciation of the reality of our political system; use of material, textbooks, current articles, legislative bills, sample ballots, observation of local government agencies. Two credits; spring. Hulse.

160P. Methods of Teaching Art.—Type problems, courses of study, methods and materials. Prerequisite, P.S.D. 5-6-7, 9-10-11, 53, 54, 55, 56, 105. Two credits; autumn. Rhodes.

160R. Teachers' Course in Physical Education for Women.—A study of the sociological, biological, and educational foundations of physical education with reference to objectives and selection of activities, programs, and curriculum in physical education. Prerequisites, P.E. 101-102, 103-104, 105-106, 111-112-113, fifteen credits of which must be in residence. Two credits; autumn. Gross.

160S. Teachers' Course in Physical Education for Men.—The elementary and secondary school program. Fundamental principles underlying curricula construction; special aims and objectives; standards for evaluating practice in the field; correlation of physical education with the various other school agencies that affect the physical, moral and social welfare of children. Prerequisite, Phys. Ed. 145. Two credits; winter. Foster.

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. Prerequisite, Span. 101, 102, 103, 159. Two credits; spring. Ober.

160X. Teachers' Course in Piano Playing.—Survey of teaching material, with supervised practice. Prerequisite, Music 165, 166. Two credits; spring. Risegari.

Piano Teaching Methods.—See Music 165, 166.

160Z. Teachers' Course in Zoology.—For students preparing to teach zoology in high schools. Lab. fee, $1.50. Prerequisite, 20 hours in zoology. Two credits; winter. Guberlet.

II. ADVANCED UNDERGRADUATES AND GRADUATES

To be admitted to courses in this group (II) students must have earned at least 10 credits in education, including courses 101 or 102 and 140, or the equivalent. Normal school graduates are qualified to enter.

150. Introduction to Educational Measurements.—History and development of the use of tests and scales in education. Group intelligence tests, elementary statistical methods as applied to the handling of educational data, educational achievement or subject tests and scales. Required of all candidates for the master's degree with a major in education. Lab. fee, $3. Three credits; autumn, winter, spring, summer. Dvorak.

151. Educational Sociology.—Representative aspects of the problem of making the school form a whole with the rest of life; a systematic view of the larger social factors and relationships underlyingly and surrounding
the school as an institution. The main emphasis falls upon generalization. Pivotal topics are: The social inheritance; political aspects of public education; the national mosaics of interrelated "solutions" and the ideal of progress; democratic assumptions and transitional practices; informal versus formal education; cooperation of selective factors in American education; localism; nationalism and cosmopolitanism in educational thought,—leading up finally to current problems, such as moral and character education and curriculum materials. Three credits; autumn, winter, spring and summer.

Randolph.

152. Social Surveys of School Studies and Activities.—The course summarizes the results to date of the several sociological approaches to the selection of socially defensible material for courses of study. The basic hypotheses underlying inductive studies of school materials are discussed and illustrated by concrete cases. The students make one serious effort at application in the field of their special curriculum interest. Two credits; autumn, winter, spring and summer.

Randolph.

154. Junior High School.—A survey of the historical development of this new movement in American education as a basis for the discussion of its important features, functions and problems. Guidance, methods, curricula, supervision and extra class activities will be emphasized. Lectures, personal investigations, surveys and reports. The course is organized to meet the needs of undergraduates and inexperienced teachers. Prerequisite, Educ. 119. Two credits; autumn.

Draper.

*155. Recent Developments in Child Study.

*156. High School Organization.

157. Extra-Class and Intramural Activities.—Historical development of these activities, values and objectives, classification, student participation, records and administrative problems. Lectures, personal investigations, surveys and class reports. Prerequisite, Educ. 119. Two credits; spring.

Draper.

159. The High School Principal.—A study of the high school principal as supervisor, administrator and director of extra class and intramural activities. Problems based upon the organization of the school, the teaching staff, the high school population, curriculum making and extra class and intramural activities will be considered. Registration in this course is limited to those who have had experience as elementary principals, high school principals, vice-principals or who have served at least one year as head of a department, except in special cases in which the instructor's permission has been secured. Two credits; spring.

Draper.


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; autumn.

Randolph.

*164. The History of Secondary Education.

165. Problem Children.—Subnormal, superior, backward, eccentric and delinquent children studied from the point of view of the teacher. Five credits; winter.

Dvorak.

*Not offered in 1928-1929.
*170. Educational Psychology.

*172. Psychology of Elementary School Subjects.


*174. Psychological Problems of Vocational Education.

176. Educational Guidance.—Methods and literature of personal, vocational, and educational guidance in the public schools, advisory systems, child accounting, classification, promotional plans, predictions, placement. For advanced students and teachers only. Five credits; winter. Jessup.

179. The Health Education Movement.—Its place in the elementary and secondary school program and in the community at large. The part of the school nurse, the physical education, home economics and classroom teachers in this work. Open to students majoring in any subject, who expect to teach in elementary or high schools. Three credits; spring. Soule, Rowntree.


183. Philosophy of Education.—The philosophies responsible for the American school system. The fundamental philosophy of education on which the aims and objectives of a democratic society may be developed. Education in relation to other factors in twentieth century life. Mobilization of thought, social progress, socializing agencies, dynamic and static societies, aims of education, problems of methods, curriculum building, etc. Five credits; spring. Randolph.

186. Elementary School Curriculum.—The construction and organization of the elementary school curriculum. Subjects, time schedules, principles, objectives, activities, classification, adaptation, projects, platoon plan, etc. Five credits; winter. Jessup.

190. The Elementary School Principal.—How principals usually spend their time; actual and ideal ways of organizing and conducting the principal's work; the new concept of the official qualifications necessary; professional leadership; supervision of instructional community leadership; management of office routine; the selection of teachers; measuring results; child accounting; improvement of teachers; choice of textbooks; course of study, discipline and organization. Three credits; spring. Jessup.

191. School Administration, State and County.—An analysis of modern practice and historical background of the organization, supervision and financial support of public education. Especially planned for superintendents and supervisors, and those interested in school administration. Five credits; autumn. Jessup.

192. School Administration: City.—Organization, supervision and financial support of city and town schools. For the superintendent, principal or supervisor who wishes to become familiar with modern problems and practice in school administration. Five credits; winter. Jessup.

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. Jessup.

*196-197-198. Intelligence and Its Measurement.

*Not offered 1928-1929.
To be admitted to courses in this group (III) students must be college graduates, and must have earned at least 18 credits or the equivalent in education. The following courses may be counted toward the masters' and doctors' degrees.

201-202-203. Problems in Modern Methods.—For advanced students. A critical evaluation of methods in examinations, grading, supervised study, the project, socialized recitation, problem method, assignment, laboratory procedure, etc. A seminar. Two credits each quarter; autumn, winter, spring. At least two quarters must be taken to receive credit. Williams.

206. Educational Statistics.—A thorough course of graduate nature in the statistical treatment and interpretation of educational data. Designed to enable the student to carry on research work involving the numerous quantitative measures for thesis or other advanced work. Required of all graduate students working for the master’s and doctor of philosophy degree in education and normally should be one of the first courses completed for these degrees. Five credits; autumn and summer. Dvorak.


215. Junior College.—A study of the facts and conditions which have led to the development of the junior college movement with an investigation of the purposes, objectives, curricula, economic and educational advantages of the junior college. Three credits; spring. Dvorak.

222, 223. Seminar in Social Surveys of School Materials.—Open only to graduates and limited to twenty students. The course in the winter quarter will deal with the social studies and English. In the spring the course will deal with the school subjects not covered in the winter. In each course a brief resume of the hypotheses underlying critical revision of school materials and evaluation of the results to date will lead to the isolation of unsettled problems of content and will be followed by research upon some phase of such unsettled problem. Students may elect each course separately or may take both courses, 223 not being a repetition of 222. Prerequisite, Educ. 152 or its equivalent. Two credits each quarter; winter, spring. Randolph.

*232-233. Advanced Educational Psychology.

235. Survey of Recent Educational Literature.—For graduate students and 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. Three credits; winter and summer. Dvorak.


251-252, 253. Seminar in Psychology of High School Subjects.—Consideration of experimental studies which form the basis of learning and teaching problems in the high school curriculum; English, mathematics.
science, history and foreign languages. Five credits each quarter; autumn, winter, spring. At least two quarters must be taken to receive credit.

261-262. Seminar in Educational Sociology.—Introductory summary of the tendencies and recent contributions of educational sociology, followed by practical work upon selected problems. Five credits a quarter; autumn and winter.


275-276-277. Seminar in Secondary Education.—A critical study of the curricula adjustments of the elementary school and the junior college or university with secondary education. Problems will be developed out of the programs of study of the junior high school and the senior high school. This course is for advanced graduate students who wish to do intensive investigation in curricula revision. Two credits a quarter; autumn, winter and spring.

*281. Seminar in Character Education.


293. Seminar in School Finance.—An intensive study of various methods of raising and distributing school revenues. Special consideration to needs in Washington. Five credits; spring.

298, 299, 300. Individual Research or Thesis Work.—Original investigation of special problems. Results are usually reported in one of the seminars and when especially meritorious may be published. Special problems directed by members of the department. Credits to be arranged; autumn, winter, spring.

ELECTRICAL ENGINEERING

Engineering Hall

Professors Magnusson, Kirsten, Locc; Assistant Professors Shuck, Hoard, G. S. Smith; Instructors Eastman, Lindblom, Bergstrom, Weir, Applerage.

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.

102. Direct Currents Laboratory.—Continuous current machinery, for non-electrical students. To be taken with E.E. 101. Prerequisite, Phys. 98. Lab. fee, $4. Two credits; autumn, winter, spring.

105. Electric Wiring and Illumination.—A short course for architects. Two credits; autumn.

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.

*Not offered 1928-1929.
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. Weir, Bergstrom, Smith.


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. Smith, Hoard.

**15. Elementary Direct Currents.—(Extension Night Class.) Laws of the electric and magnetic circuits with application to direct current machinery without the aid of advanced mathematics. For electricians having at least two years of practical experience with electrical machinery. Shuck.


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. Shuck, Weir.

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. Shuck, Weir.

131. Electric Communications.—Wire and radio telephone and telegraph. Theory, construction, and operation of electric communication systems. Central telephone station practice. Prerequisite, Physics 98. Four credits; autumn.

132. Telephone Transmission.—Theory of telephone transmission; reflection phenomena; measurements of line constants; design of telephone equipment. Prerequisite, E.E. 161. Lab. fee, $2. Three credits, winter. Eastman.

**141. Illumination.—Electric lamps; commercial photometry; adaptation of electric lighting to commercial requirements. Junior or senior elective. Prerequisites, E.E. 109, 110. Lab. fee, $2. Four credits; spring. Shuck.

152. Electrical Machine Design.—Complete design of one direct current generator or motor. Prerequisites, E.E. 111, 112. Three credits; autumn, winter, spring. Lindblom.

**154. Design of Electrical Apparatus.—Switchboards, transformers, alternators, alternating current motors, etc. Prerequisite, E.E. 152. Four credits. Loew.

161. Alternating Currents.—Theory of singlephase and polyphase system; energy storage in magnetic and dielectric fields; vector diagrams and the symbolic methods of analysis; power factor and power measurements; hysteresis and eddy currents; theory of the transformer, singlephase and polyphase induction motors. To be taken with E.E. 162. Prerequisite, E.E. 111. Six credits; autumn, winter, spring. Loew, Lindblom.

**Will be offered if a sufficient number of students elect the course.
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, spring. Hoard, Smith.

164. Alternating Current Laboratory.—To be taken with E.E. 163. Prerequisite, E.E. 162. Lab. fee, $4. Four credits; autumn, winter, spring. Shuck, Weir.


173. Central Stations.—Location, design, and operation of electric central stations. Prerequisite, E.E. 163, 164. Four credits; autumn, spring. Kirsten.

175. Power Transmission.—Theory, design and operation of electric power transmission lines. Prerequisites, E.E. 163, 164. Five credits; autumn, spring. Loew.

177. Electric Public Utilities.—Organization, ownership, valuation rates, service requirements, regulation and public relations. Prerequisites, E.E. 163, 164. Two credits; autumn. Hoard.

180, 182, 184. Research.—Two to five credits a quarter; autumn, winter, spring. Magnusson

181. Radio.—Lineal, open and complex oscillations; coupled circuits, resonance; theory and operation of the vacuum tube as a detector, amplifier and oscillator; dynatron characteristics. Prerequisite, E.E. 161, 162. Lab. fee, $2. Five credits; autumn, winter. Eastman.

183. Radio.—Spark telegraphy; continuous wave telegraphy; radio telephony; theory of antennae and radiation; amplifier circuits. Prerequisite, E.E. 181. Lab. fee, $2. Five credits; spring. Eastman.

186, 188. Thesis.—After consultation with the head of the department the student selects a suitable topic for investigation. Reports of progress are made weekly to the instructor in charge of the work selected. A complete report of the work is typewritten and bound and a copy deposited in the University library. Two to five credits a quarter; autumn, winter, spring. Kirsten, Loew.


190, 192, 194. Seminar.—Prerequisites, E.E. 161, 162. Four credits; autumn, winter, spring. Magnusson, Loew.

195. Electric Transients.—Exponential law of simple transients; single and double energy transients; current oscillations and traveling waves; natural period of transmission lines; short circuits transients; surges; corona; lightning phenomena. Prerequisites, E.E. 163, 164. Two credits; autumn, winter, spring. Magnusson.

196. Electric Transients Laboratory.—To be taken in connection with E.E. 195. Prerequisite, E.E. 164. Lab. fee, $2. Two credits; autumn, winter, spring. Smith.
Courses in Engineering Shops

198. *Electric Transients Laboratory.*—Continuation of E.E. 196. Lab. fee, $2. Two credits; autumn, winter, spring. Smith.

COURSES FOR GRADUATES ONLY

210, 212, 214. *Research.*—Two to five credits a quarter; autumn, winter, spring. Magnusson, Kirsten, Loew.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

ENGINEERING SHOPS

*Assistant Professor Schaller; Assistant Sullivan*

52. *Pattern Shop.*—Designing and building wooden patterns and foundry flask equipment. Lab. fee, $2. One credit; autumn, winter, spring. Sullivan.

53. *Foundry.*—Bench and floor moulding, use of moulding machines, core making, cupola practice, and foundry management. Lab. fee, $3. One credit; autumn, winter, spring. Sullivan, Schaller.

54. *Forge.*—Forge practice, acetylene welding and heat treatment of steels. Lab. fee, $2. One credit; autumn, winter, spring. Schaller.

55. *Machine.*—Elementary machine shop practice and management. Lab. fee, $2. One credit; autumn, winter, spring. Schaller, Sullivan.

105. *Advanced Machine Shop Practice, Millwrighting.*—Prerequisite, Shop 55. Lab. fee, $2. One credit; autumn. Sullivan.


115. *Shop Management.*—Designing of plants both as to location and physical characteristics, as well as a study of their effective operation. Lab. fee, $1. Three credits; winter. Schaller.

120. *Factory Cost Analysis.*—Analysis of shop practice with view to determining costs of operation and products. Lab. fee, $1. Three credits; autumn and spring. Schaller.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

ENGLISH

Denny Hall

*Professors Padelford, Parrington, Benham, Cox, Griffith, Orr; Associate Professors Milliman, Harrison; Assistant Professors Hughes, Small, Winther, Rahskopf, Groth; Instructors Windesheim, Eby, Ethel, Bird; Lecturers Sterlin: Associates Lawson, Hall, Jones, Vickner, Kerrigan, Wagenknecht, Adams, Brown, Peterson, Cappon, Cederstrom, Cornu, Nix, Mark, Sheppard; Assistants and Teaching Fellows.*

SUGGESTIONS FOR MAJOR STUDENTS

The major requirement in English is from 36 to 60 hours, of which at least 50 per cent must be upper division courses. English 1 and 2,
Departments of Instruction

or their equivalent of elementary composition, are required but cannot be counted toward a major.

Lower Division Students.—The lower division student should first satisfy the requirements of his college, so that he may acquire a background for his English studies. If however, after the fulfilment of these requirements, his schedule permits added work in English, he may register for any of the following courses: Advanced Composition (51, 52, 53; 54, 55, 56; or 61, 62, 63); Readings in Literature (80); The English Essay (81); The Romantic Poets (83); Tennyson, Browning and their Contemporaries (84); Literary Backgrounds (64, 65, 66); American Writers (67, 68, 69); Shakespeare (70, 71, 72); Introduction to Modern Literature (73, 74, 75); Introduction to Poetry (21); Introduction to the History of the English Language (117, 118, 119). Of these Advanced Composition and Introduction to the History of the English Language are especially recommended. As 60 credits, exclusive of freshman composition, is the maximum of English work allowed for a major, the student should avoid registering for more than 20 lower division credits in addition to English 1 and 2.

If a student has five hours credit for a lower division course in any literary period, he may, when he becomes an upper division student, disregard the recommendation below of the three-hour course in the same period. This rule applies to the following combinations of upper division and lower division courses in the same literary period. The Romantic Poets (83) and The Romantic Movement in English Poetry (174); Tennyson, Browning and their Contemporaries (84) and The Victorian Poets (175); American Writers (67, 68, 69) and American Literature 1815-1870 (163); Introduction to Shakespeare (70, 71, 72) and Shakespeare (170).

Upper Division Students.—Senior Examination. At the conclusion of the senior year all major students are required to take an examination in literature. As the minimum requirement of 36 hours for a major subject is commonly inadequate to prepare for the senior examination, it will be well to increase the election materially. The examination will presume (1) a knowledge of the general development of English literature from Anglo-Saxon times and of American literature from 1815-1870; (2) a detailed knowledge of important periods, writers, or types of literature; (3) ability to write criticism of the works of the important periods, writers, or types of literature chosen under (2). The department recommends as preparation for this examination the following 3-hour courses: Chaucer (131); Shakespeare (170); either Milton and his Contemporaries (127) or The Classic Period (144); Eighteenth Century Literature (145 or 146); American Literature 1815-1870 (163); and two courses from The Romantic Movement in English Poetry (174), The Victorian Poets (175), and Nineteenth Century Prose (137). "Honor Major in English" is a title used to designate a student who has an average of "B" in the English work of his junior year. Such an honor major is admitted to Major Conference (191, 192, 193) and may be excused from the senior examination, provided that his record as a student indicates high excellence both in general courses and in his specializations.

1-2-3. Composition.—Principles and practice of composition, with conferences for personal criticism. A grade of "A" in English 1 excuses a student from 2 on the recommendation of his instructor. Five
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Credits for two quarters; autumn, winter, spring. For Fine Arts students, three credits for three quarters; autumn, winter, spring. Miss Lawson in charge.

4. Composition.—For students in forestry, fisheries, and pharmacy. Students are required to repeat the course if their work is not of high quality. Three credits; autumn, spring. Miss Lawson in charge.

5. Composition.—For students in fisheries and forestry. Three credits; winter, spring. Miss Lawson in charge.

7. Elementary Composition.—A non-credit composition course required of students who fail in the examination for entrance into English 1, 4, or 100. No credit; autumn, winter, spring.

21. Introduction to Poetry.—Designed to develop appreciation and understanding of poetry. Study of the poetic mind and of the material and methods of poetic art. Illustrative reading from poets of all periods. Five credits; winter, spring. Hughes.

37. Argumentation.—Primarily for students in the College of Business Administration. Research, analysis, the use of evidence, and the discovery of fallacies are stressed. Five credits; autumn, winter, spring. Orr in charge.

38. Argumentation and Debating.—A study of the principles of argumentation and their application in practical debate. Bibliographies, briefs, and oral and written arguments are required of each student. Important questions studied and debated in class. May be taken for upper division credit by upper division students. Five credits; autumn and winter. Windesheim.

39. Advanced Argumentation and Debating.—May be taken for upper division credit by upper division students. Prerequisite, English 38. Three credits; spring.

40. Essentials of Speaking.—This course seeks to remove self-consciousness, to discover a method of research that will arouse positive convictions, to teach a method for effective organization of material, to establish the power to think creatively before people, and to free the channels of expression so that the thought may be expressed effectively. Five credits; autumn, winter, spring. Orr in charge.

41. Advanced Speaking.—A more technical study of the problem of speech delivery than in English 40. Both voice and body are trained to be more responsive to the mind. Proper coordination is secured through practical speech problems. Correction of speech defects. Preparation and delivery of speeches of different types before actual audiences when possible. Individual conferences when necessary. May be taken for upper division credit by upper division students. Prerequisite, English 40. Three credits; winter and spring. Windesheim, Rahskopf.

43. The Speaking Voice.—A study of the vocal mechanism and the establishment of fundamental coordinations of mind, voice, and body, which are essential to effective speaking. May be taken for upper division credit by upper division students. Three credits; autumn, winter, spring. Orr.

51, 52, 53. Advanced Composition.—Composition based upon models from current magazines. May be taken for upper division credit by upper division students. Prerequisite, English 1 and 2, 37, or 40. Two credits; autumn, winter, spring. Milliman.

54, 55, 56. Advanced Composition.—Description, narration, and the writing of criticism. May be taken for upper division credit by upper
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division students. Prerequisite, English 1 and 2, 37, or 40. Two credits; autumn, winter spring.

61, 62, 63. Verse Writing.—Principles of versification with practice in verse writing. Prerequisite, English 1-2. Two credits; autumn, winter, spring.

64, 65, 66. Literary Backgrounds.—A historical survey of English classics emphasizing study of literary forms and the relation of literature to social and political movements. Open to all. Required in the freshman year of pre-journalism students. Three credits; autumn, winter, spring.

67, 68, 69. American Writers.—Studies in the works of Emerson, Hawthorne, Longfellow, Lowell, Whitman, Poe, Bryant, Whittier, Mark Twain, and others. For students who intend to major in English. Two credits; autumn, winter, spring.

70, 71, 72. Introduction to Shakespeare.—Detailed study of Shakespeare's principal plays. Recommended to students who expect to major in English. Three credits; autumn, winter, spring.

73, 74, 75. Introduction to Modern Literature.—Essay studies of European and American thought of the nineteenth century and after, accompanied by readings in poetry, novel, and drama. Three credits; autumn, winter, spring.

*80. Readings in Literature.

81. The English Essay.—Selected readings illustrating the development of the English essay. Five credits; autumn, winter, spring.

*82. Eighteenth Century Writers

83. Romantic Poets.—Selections from the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats. Recommended to students who intend to major in English. Five credits; autumn, winter, spring.

84. Tennyson, Browning, and their Contemporaries.—Recommended to students who expect to major in English. Five credits; autumn, winter, spring.

97, 98, 99. The Bible as Literature.—The literature of the Old Testament. Open to all. May be taken by upper division students for upper division credit. Two credits; autumn, winter, spring.

100. Composition for Students in Engineering and Mines.—An intensive course in expository writing scheduled for juniors in the Colleges of Engineering and Mines. An examination taken in the sophomore year tests the ability of the student to recognize and construct clear English sentences and decides his admission to this course. Three credits; autumn, winter, spring.

101. Public Debate.—Students chosen for the debate squad may register for this course. The work is intensive, systematized instruction in practical debate. Regular meetings are held and definite tasks in research, analysis, and practical argumentation are assigned. Each member of the squad appears in public debate. Credits will be allowed upon the recommendation of the instructor in charge, provided that no more than two credits are earned in one year and that the total does not exceed six cred-

*Not offered 1928-1929.
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its. Prerequisite, membership in the debate squad. Two credits; winter, spring.

102. Advanced Composition for Engineers.—In this course, the technical student who wishes to come in contact with authors representative of the thought or the culture of either the past or the present and to improve his own style of writing, is given opportunity to progress in accordance with his ability. Individual conferences, weekly. Prerequisite, English 100. Three credits; autumn, winter, spring. Hall.

103. Extemporaneous Speaking.—Recommended to students in engineering, business administration and law. Principles of effective speaking are studied and short original talks are prepared and delivered. Clear statement, sound argument, and effective presentation are sought. Not open to liberal arts students nor to students who have credit for English 40. Three credits; winter, spring. Windesheim.

104. Contemporary Literature: American, French, German.—Special studies in contemporary literature for advanced students. Three credits; autumn, winter, spring. Cox, Harrison, Winther.

105. Contemporary Literature: Russian, Scandinavian.—Special studies in contemporary literature for advanced students. Three credits; autumn, winter, spring. Harrison, Winther, Cox.

106. Contemporary Literature: English and Irish.—Special studies in English contemporary literature for advanced students. Three credits; autumn, winter, spring. Winther, Cox, Harrison.

*107. Contemporary Drama.

110, 111, 112. Advanced Verse Writing.—Given in conjunction with English 61, 62, 63. All the elementary credits must be earned before advanced credit will be given. Two credits; autumn, winter, spring. Hughes.

117, 118, 119. Introduction to the History of the English Language.—Studies in the origins and the history of the English vocabulary; historical English grammar. Each quarter of this course is prerequisite to those that follow except by permission of the instructor. Open to sophomores who expect to major in English. Two credits; autumn, winter, spring. Small.

124, 125. The English Drama.—Plays representative of the origin and development of English drama to 1642. Three credits; autumn, winter.

*126. English Drama: 1660-1780.

127. Milton and his Contemporaries.—Three credits; autumn, winter, spring. Benham.

130. Medieval Literature.—Old English classics studied in relation to the life and ideals of the Middle Ages. Three credits; winter. Small.

131. Medieval Literature: Chaucer.—Selections from the Canterbury Tales. English 151 is a continuation of this course. Three credits; autumn, winter, spring. Griffith, Small.

132. Medieval Literature: Middle English.—Middle English Literature, exclusive of Chaucer, with special emphasis upon the romances, Piers Plowman, and Gower. English 152 is a continuation of this course. Two credits; autumn. Benham.

*Not offered in 1928-1929.
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133. *Fifteenth Century Literature.*—The Renaissance in English literature and culture. Two credits; spring. Benham.

*134. The Reformation in England.*


139. *Oral Style.*—Construction of the longer and more formal type of address. The best types of modern public addresses are analyzed for structure and style. Consideration of the problems of attention, interest, and successful appeal to action. Prerequisite, English 40. Three credits; spring. Rahskopf.

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.


145. *Johnson and His Age.*—The prose writers of the second half of the eighteenth century—Johnson, Goldsmith, Walpole, Burke, and Hume. The critical, historical, and philosophical interests. Three credits; winter. Cox.


147, 148, 149. *The English Novel.*—The development of the English novel from Richardson to Galsworthy. The eighteenth century novel, the romantic novel, and the modern realistic novel are studied in the successive quarters. Three credits; autumn, winter, spring. Cappon.

151. *Chaucer: Advanced Course.*—Prerequisite, English 131. Three credits; spring. Griffith.


161, 162, 163.—*History of American Culture.*—A consideration of the American ideals and their expression in literature. The fall quarter is devoted to early New England, the winter quarter to the Knickerbocker School and the literature of the South, and the spring quarter to the New England Renaissance (American Literature, 1815-1870). Three credits; 161, autumn, 162 and 163, autumn, winter, spring. Parrington, Harrison, Eby.

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, Harrison.

170, 171, 172. *Shakespeare.*—The early plays and poems to 1598, the later plays, and selected problems in Shakespearean study in successive quarters. Prerequisite to 172, English 170 or 171 or 70, 71. Three credits; autumn, winter, spring. Winther.

Courses in English

this course. Not open to students who have credit for English 83. Three credits; autumn, winter, spring.

175. The Victorian Poets.—Tennyson, Browning, the Pre-Raphaelites, Arnold, Swinburne. Not open to students who have credit for English 84. Three credits; autumn, winter, spring. Cox, Ethel.

176. Studies in Victorian Poetry.—Detailed studies in the poetry of Tennyson, Browning, the Pre-Raphaelites, Arnold, and Swinburne. Prerequisite, English 175 or 84. Three credits; spring. Winther.


180, 181, 182. Old English Language.—The reading of Anglo-Saxon classics in the original and the study of grammatical forms. Three credits; autumn, winter, spring.

*183, 184, 185. General Literature.

187, 188. Advanced Speech Problems.—Prerequisite, English 43. Three credits; winter, spring. Orr, Rahskopf.

189. Oral Reading.—Training in the natural use of the voice in reading, teaching, and conversation. Practice reading in class with criticism and suggestions. Required of those who expect to teach English. English 43 offers valuable preparation for this course. Three credits; autumn, winter, spring. Orr, Rahskopf.

190. Public Speaking and Debate in the High School.—The organization of high school courses in public speaking and debate. Prerequisite, English 38 and 40. Two credits; spring. Orr.

191, 192, 193. Major Conference.—Individual conferences to correlate studies in the different literary periods and for guidance in individual reading. Each student meets his instructor once a week in conference. Open only to students who have an average of "B" in the English of their junior year. Three credits; autumn, winter, spring. Cox in charge.


Teachers' Course.—See Education 160E, 160EC, and 160EL.

For courses in foreign literature taught in English, see Department of General Literature.

COURSES FOR GRADUATES ONLY

201, 202, 203. Introduction to Graduate Study.—Methodology and bibliography of the English language and literature. Normally the first graduate course in English. Two credits; autumn, winter, spring. Benham.

204, 205, 206. Seminar in Chaucer.—The works of Chaucer and the problems of Chaucerian scholarship. Two to five credits; autumn, winter, spring. Griffith.

*Not offered in 1928-1929.
Departments of Instruction

**207. English Literature from Chaucer to Spenser.**

208, 209, 210. Seminar in Pre-Shakespearean Drama.—Research problems in English drama from the beginnings to Shakespeare. Two to five credits; autumn, winter, spring. Small.

**211, 212, 213. Seminar in Sixteenth Century Literature: Spenser.**

217, 218, 219. Seminar in Shakespeare.—Problems in the study of Shakespeare and his contemporaries. Two to five credits; autumn, winter, spring.

221, 222, 223. British Culture in the Seventeenth Century.—Studies in the renaissance and the reformation, the literature of the Puritan and the Cavalier, the Jacobean and restoration drama, and the beginnings of English science. Two to five credits; autumn, winter, spring. Benham.

224, 225, 226. Seminar in American Literature.—Intensive studies in American literature. Two to five credits; autumn, winter, spring. Parrington

230, 231, 232. Old English.—Anglo-Saxon grammar; readings in Old English prose and poetry; Beowulf. Three credits; autumn, winter, spring. Vickner.

233, 234. Advanced Old English.—Readings from Beowulf, the Riddles, and the works of Caedmon, Cynewulf, and others. Prerequisites, English 230, 231, 232 or equivalent. Three credits; winter, spring. Small.

237. Gothic.—Readings in Gothic as an introduction to the study of the Germanic languages. Prerequisite, English 230, 231, 232 or equivalent. Three credits; autumn. Small.


246. Seminar in Eighteenth Century Literature.—Two to five credits; spring. Cox.

250, 251, 252. Thesis Research.—A student should not enroll for this course until after he has chosen a thesis subject. Time and credit to be arranged. Autumn, winter, spring. The Staff.

For other graduate courses that may be counted toward an English major for an advanced degree, see French 210, 211, 212, French Criticism; and Liberal Arts 214, 215, 216, Studies in Realism.

**OTHER COURSES WHICH MAY RECEIVE CREDIT IN ENGLISH**

*Play-Writing.*—See Dramatic Art 111, 112, 113.

*History of Theatre Art.*—See Dramatic Art 127.

*Representative Plays.*—See Dramatic Art 151, 152, 153.

*Introduction to Theory of Literature.*—See General Literature 101.

**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 1928-1929.*
**Courses in Fisheries**

**FISHERIES**

Fisheries Hall

Professors Cobb, Kincaid; Assistant Professors Parks, Crawford; Instructors Jarvis, Schultz.

1. **History of Fisheries.**—History of the fisheries of Europe, Africa and Western Asia from earliest times to the present. Two credits; autumn. Cobb.

2. **History of Fisheries.**—History of the Atlantic fisheries of North and South America from earliest times to the present. Two credits; winter. Cobb.

6. **Pacific Fisheries.**—General review and history of fisheries of the countries bordering on the Pacific Ocean. Two credits; winter and spring. Cobb.

50. **Elements of Fisheries.**—Fishery science, stressing economic and cultural aspects of the subject. Lectures, demonstrations, and occasional trips. Offered only to students not enrolled in the College of Fisheries. Three credits; spring. Jarvis.

53, 54. **Ichthyology.**—Structure, classification and habits of economic fishes. Prerequisite, Zool. 1, 2. Lab. fee, $3. Five credits a quarter; autumn, winter; winter, spring. Schultz.

60. **Aquatic Animals other than Fish.**—The natural history of aquatic animals other than fish, such as whales, seals, oysters, clams, crabs, etc. Prerequisite, Zool. 1, 2. Fee, $3. Three credits; spring. Schultz.

65. **Fishing Vessels and Boats.**—Types of fishing vessels and boats; their design, construction and operation. Two credits; spring. Parks.

101, 102, 103. **Fish Culture.**—Developmental history and artificial propagation of economic fishes, lobsters, etc. Prerequisite, Fish. 54, and Zool. 5. Lab. fee, $3. (Fish. 101 repeated in spring quarter.) Five credits a quarter; autumn, winter, spring. Crawford.

104, 105. **Fishery Methods.**—Construction and uses of apparatus. Three lectures and two laboratory periods. Lab. fee, $3. Five credits a quarter; winter, spring. Cobb.

110. **Fresh and Frozen Fishery Products.**—Handling, care and transportation of fresh and frozen aquatic animals. Prerequisites, Fish. 54 and Bact. 101. Three lectures and two laboratory periods. Lab. fee, $4. Five credits; autumn. Jarvis.

111. **Curing of Fishery Products.**—Commercial methods of curing and preservation, by drying, salting, smoking, spicing, etc., of aquatic animals. Prerequisite, Fish. 110. Three lectures and two laboratory periods. Lab. fee, $4. Five credits; winter. Jarvis.

**112. Oyster and Clam Culture.**—Development and propagation of oysters and clams. Prerequisite, Fish. 60. Lab. fee, $3. Five credits; autumn.

120. **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.

**Offered if elected by a sufficient number of students.**
and effect of temperature and altitude upon vacuum; corrosion of tin plate. Prerequisite, Bact. 101. Lab. fee, $4. Five credits; autumn. Parks.

121. Canning Machinery and Cannery Management.—Types, installation and operation of canning machinery and equipment; cannery personnel; paper forms used in cannery practice. Prerequisite, Fish. 120. Lab. fee, $4. Five credits; winter. Parks.

122. Canning of Fishery Products.—Commercial methods of canning aquatic animals in either tin or glass. Three lectures and two laboratory periods. Prerequisite, Fish. 120. Lab. fee, $4. Five credits; spring. Parks.

140. Aquarium Management.—Study and care of aquatic animals and plants in balanced and running water aquaria. Three lectures and laboratory period of one hour daily. Lab. fee, $3. Five credits; autumn. Crawford.

145. Food Laws.—Study of federal, state and foreign laws regulating the sale of food products. One lecture a week. One credit; winter. Parks.

147. Preparation of Secondary Products.—Manufacture of fish meal, fertilizer, oils, glues, leathers and furs from aquatic animals. Prerequisite, Fish. 122. Three lectures and demonstrations. Three credits; winter. Jarvis.

150,151,152. Problems in Fish or Shellfish Culture and Fisheries Technology.—Students with proper preparation, which should include 15 hours in fish culture, or 15 hours in shellfish culture and Fish. 53, 54, 60, or 15 hours in fishery methods and preparation of fishery products, will be assigned special problems to be worked out under the direction of the instructor. Lab. fee, $5. Five credits a quarter; autumn, winter, spring. Cobb and Staff.


**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.

180. The Economic Fishery Resources of North America.—Fishery resources of the North American Continent and adjacent seas, their development and commerce, and government policies of conservation. Three credits; autumn. Cobb.

**190. Fishways and Fishstops.—The design, construction and uses of fishways and fishstops. Two lectures and one laboratory period. Senior standing. Three credits; autumn. Cobb.

195, 196, 197. 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, winter, spring. Cobb and staff.

COURSES FOR GRADUATES

201, 202, 203. Research Problems.—Investigation of assigned problems. Open to qualified graduates after consultation. Credits and time to be arranged. Lab. fee, $1 per credit hour. Autumn, winter, spring. Cobb and staff.

**Will be offered if a sufficient number of students elect the course.
Courses in Forestry

FORESTRY AND LUMBERING

Anderson Hall

Professors Winkenwerder, Kirkland; Associate Professor Grondal; Assistant Professors Alexander, Brandstrom; Lecturer Clark.

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.

   Alexander, Winkenwerder.

2. **General Forestry.**—To familiarize the student with the field of work he is about to enter. Required of all freshmen. Three credits; autumn.

   Winkenwerder.

3. **General Forestry.**—Continuation of For. 2 but need not be preceded by it. Three credits; winter.

   Winkenwerder.

4. **Forest Protection.**—Classification of injuries, factors influencing the spread and severity of forest fires, slash disposal, methods of detection and suppression. Required of freshmen. Three credits; spring or winter.

   Winkenwerder.

5. **Woodcraft.**—Food and clothing, camp equipment and sanitation, packing a horse, and general woodcraft. One-half of the course is devoted to first aid work. A section will be arranged for students not enrolled in forestry if not less than 12 apply. Two lectures a week; demonstrations and practice work additional. Lab. fee, $2. Two credits; autumn.

   Kirkland, Alexander, 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.

7. **Forest Protection.**—Protection against insect and fungus attacks, animals, avalanches, land slides, floods, shifting sands. Required of sophomores. Three credits; autumn.

   Winkenwerder.

51. **Forest Mensuration.**—Principles and methods of computing, scaling, cruising, mapping; construction of volume tables, taper tables, and form factors. Three recitations, two 3-hour laboratory periods. Prerequisite, Math. 51, C.E. 55. Lab. fee, $2. Five credits; spring.

   Alexander 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.

   Alexander and assistant.

53. **Construction.**—Trails, roads, logging railroads, telephone lines, wooden bridges, cabins, barns, and fences; land clearing, United States Forest Service improvement work, and logging construction. Required of sophomores. Prerequisite, G.E. 21 or C.E. 55. Lab. fee, $2. Three credits; winter.

   Clark, Brandstrom.

57. **Silviculture.**—Influence of the climatic physiographic and biotic factors on forest vegetation and the reaction of forests on these factors. Evaluation of site factors. Five credits; autumn or winter.

   Alexander.

58. **Silviculture.**—Silvical characteristics of tree species, forest types, the silvicultural systems, regional forestry, silviculture. Lab. fee, $2. Five credits; winter.

   Alexander.
Departments of Instruction


101. Wood Technology.—Wood structure and identification of commercial timbers of the United States; physical properties of woods; kiln drying. Required of juniors. Prerequisite to all courses in forest products; prerequisites, college botany, For. 1, 10 hours chemistry and Physics 1. Lab. fee, $2. Five credits; autumn. Grondal and assistant.

104. Timber Physics.—General mechanics, stresses, tests, theory of flexure, moisture and strength; mechanical properties of wood. Required of juniors. Prerequisite, Math. 51, 52, 56, For. 101, Physics 1 and 2. Lab. fee, $2. Five credits; winter.

105. Wood Preservation.—Nature of decay of timber; methods and economics of preservation. Laboratory work with the college treating plant and reports on local creosoting plants. Required of juniors and graduates. Prerequisites, For. 101 and ten hours of chemistry. Three credits; winter. Grondal.

110. Characteristics of Trees.—Identification, distribution, life habits, and uses of trees of the Pacific Northwest. Offered only to students not enrolled in forestry. Two lectures weekly and occasional field trips. Two credits; spring. Winkenwerder.

119. Forest Administration.—Objects, principles and methods of administering private and public forests and forest industries. Three credits; autumn. Kirkland.

126. Forest Economics.—Forests of the United States, their uses and relation to other industries and resources. Statistics of production and consumption. Required of juniors or seniors in forestry and open to students in other departments. Prerequisites, B.A. 1 or 3. Three credits; winter. Kirkland.

151. Forest Finance.—Mathematics of forest finance and operations; cost of growing timber; valuation of land for forest production. Required of students in senior or graduate year. Prerequisites, For. 52 and 58. Three credits; autumn. Kirkland.

152. Forest Organization.—Principles of forest organization and regulation of the cut; advantages of foresight and planning in forest operations for a term of years; sustained yield management of forests; forest working plans. Required of students in senior or graduate year. Prerequisite, For. 151. Three credits; winter. Lab. fee, $2. Kirkland.

153. General Lumbering.—Comparative methods of lumbering on the Pacific Coast and in other lumbering regions of the United States. Prerequisite to all courses in logging and milling. Required of juniors. Five credits; autumn. Clark, Brandstrom.

157. Lumber and Its Uses.—Wood structure, leading to identification of local species; physical and mechanical properties of wood. Primarily for business administration students (not open to students majoring in forestry). Three credits; winter. Grondal.

158. Forest Utilisation.—Pulp and paper manufacture, tannic acid, naval stores and other secondary forest products; lumber and its economic uses in construction. Required of juniors and graduates. Prerequisite, For. 101, and 10 hours of chemistry. Five credits; spring. Grondal.

160,161,162. Forest Investigations.—The object of this course is to enable students to prepare themselves for work in certain special fields for which the College of Forestry offers no regular courses, such as grazing,
Courses in Forestry

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.

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.


185-186-187. Logging Engineering.—Logging machinery and equipment, organization of logging companies, construction of railroads, camps, etc. Lectures, demonstrations at plants manufacturing logging machinery, and field work in nearby logging camps. During the third quarter all the work is transferred to the field, where extensive work in logging engineering is conducted. No credit is given for courses 185 and 186 unless followed by 187. Primarily for seniors and graduates. Required of all students specializing in logging engineering. Prerequisites, For. 52, 53, 58, 104, 153, M.E. 82, C.E. 22. Lab. fee for 187, $3. Four credits a quarter, autumn and winter. Sixteen credits; spring. Clark, Brandstrom.


189. Wood Pulp.—Design of waste conversion plants; wood pulp manufacture. Prerequisites, For. 101, 158. Lab. fee, $3. Five credits; spring. Grondal.


193, 194. Seminar.—Review and advanced work in dendrology, mensuration, silviculture and lumbering. Prerequisites, For. 52, 58, 151, 153. Three credits; winter. Staff.

196. Forest Management.—Continuation of Forestry 152. Lectures, assigned readings and extensive field work on large size tracts of timber. Required of all students majoring in forest management. Prerequisites, For. 119, 152, 194. Lab. fee, $3. Eight credits; spring. Kirkland.

COURSES FOR GRADUATES ONLY

201. Forest Geography.—Advanced dendrology. Silvicultural regions, their relation to regional industrial development and general problems of lumbering and management. Three credits; autumn. Winkenwerder.

202. Thesis.—Autumn, winter, or spring; three to six credits per quarter, total requirement nine credits. Instructors assigned according to nature of work. Staff.

208, 209. Graduate Seminar.—Reviews, assigned readings, reports, and discussions on current periodical literature and the more recent Forest Service and state publications. Three credits a quarter; autumn, winter. Staff.
213, 214, 215. Research.—Ample opportunity is offered for advanced research in any of the special phases of forestry. Credits to be arranged; any quarter. Instructors assigned according to nature of work. Lab fee, $3. Staff.

221. Forest History and Policy.—Forest policy of the United States; forestry in the states and island possessions; the rise of forestry abroad. Three credits; autumn. Kirkland.

223. Advanced Forest Management.—About one week of field work on a tract of 50,000 to 100,000 acres. Formation of a working plan for regulation of the yield and organization of all forest work on the area, with estimates of outlay and income. The basic field data are supplied. Eight credits; spring. Kirkland.

224. Advanced Milling and Marketing.—Sawmill design and a detailed study of special problems in sawmill operation and management. Five credits; spring. Grondal.

GENERAL ENGINEERING
Education Hall

Associate Professor Wilcox; Assistant Professors Collier, Warner, Hawthorne, Van Horn, Farquharson; Instructors Chittenden, Robinson, Smith, Jacobsen, Rathbun, Rhodes, Weir.

1. Engineering Drawing.—Lettering; engineering sketching, fundamental principles of working drawings. Lab. fee, $2. Three credits; autumn, winter, spring. Warner.

2. Engineering Drawing.—Use of instruments; reading of drawings; detail and assembly drawings; tracing, standards and conventions. Prerequisite, G.E. 1. Three credits; autumn, winter, spring. Warner.

7. Engineering Drawing.—A special short course for Forestry and Fisheries. Lettering, use of instruments, orthographic projection, working drawings and tracings. Lab. fee, $2. Three credits; winter, spring. Warner.

11. Engineering Problems.—Training in methods of attacking, analyzing and solving engineering problems. Coaching in proper methods of work and study, including training in systematic arrangement and clear workmanship. Deal principally with the dynamic side of the problems. Three credits; autumn, winter, spring. Wilcox

12. Engineering Problems.—Continuation of the work in G.E. 11, most of the time being devoted to statics and mechanics of materials. Prerequisites, G.E. 1, G.E. 11 and Math. 51. Should be accompanied by Math. 52. Three credits; autumn, winter, spring. Wilcox.


Courses in General Literature

GENERAL LITERATURE

Denny Hall

Committee in charge.—Dean Thomson; Professor Benham; Associate Professor Stone; Assistant Professors DeVries, Griffin.

Advisers.—Associate Professor Stone; Assistant Professor DeVries.

A major in General Literature requires a reading knowledge of two foreign languages, General Literature 101, 191, 192, 193, and sufficient other courses to make a total of from 36-60 credits.

In preparation for this major and for General Literature 101, the student should earn 18 lower division credits from the following groups with not more than ten hours in any one group.

I. Greek 15-16.
II. Oriental Studies 50, 51, 52, 70, 71, 80.
III. English 64, 65, 66, 80, 98.
V. French 118, 119, 120, Spanish 118, 119, 120, Italian, 118, 119, 120.
VI. Liberal Arts 11, Philosophy 123.

The upper division courses listed above may be entered by qualified sophomores who have obtained the permission of the instructors.

The remaining courses offered for this major should be arranged in consultation with a major adviser. The plan of work should include a survey of at least one national literature, some studies in each of the following groups, and a special knowledge of one of these groups.

I. Oriental Literature.
II. Greek and Latin Literature.
III. Medieval and Renaissance Literature.
IV. Classic and romantic movements in modern literature.

101. Introduction to Theory of Literature.—The relation of literature to life in the light of recent psychological, philosophic, and social scholarship. (May receive credit in English.) Five credits; autumn and spring.

191, 192, 193. Major Conference.—Individual conference to correlate studies and for guidance in individual reading. Each student is expected to meet his instructor once a week in conference. Three credits; autumn, winter, spring.

GEOLOGY AND GEOGRAPHY

Science Hall

Professors Landes, Weaver; Associate Professors Renner, Goodspeed; Associates Seeman, Bauer, Goodsell.

I. GEOLOGY

Courses described below are grouped to lead into different fields of geological work, as follows:

General Geology: Courses 1a-9, 100-109, and 200-209.
Paleontology: Courses 1a, 1b and 2, 130-140, and 230-240.
The year in geology for Liberal Arts students may be satisfied by
Departments of Instruction

the following combinations: Geology 1a, 1b and 2; 1a, 1b and 21; 1a, 1b and Geography 112; 1a, 1b and Geography 11.

To satisfy a science requirement in geology, courses 1a and 1b may be taken the same quarter, or 1a should be taken first, followed by 1b. As electives, credit will be given if these courses, 1a and 1b, are taken separately.

1a. General Geology.—Materials of the earth, rocks, minerals, and rock structure. Lectures and laboratory work with occasional half-day field trips. Lab. fee, $1. Three credits; autumn, winter, spring. Goodspeed.

1b. General Geology.—Geological agencies and processes affecting the earth's surface. Lectures and laboratory work with occasional half-day field trips. Lab. fee, $1. Two credits; autumn, winter, spring. Landes.

2. General Geology.—Historical. Continuation of courses 1a and 1b dealing with the origin and evolution of the earth. Lectures and laboratory work, with some field excursions. Prerequisite, Geol. 1a, 1b. Lab. fee, $2. Five credits; autumn, winter, spring. Weaver.

4. Principles of Geology.—Historical. The earth's origin and the general history of the continent. For College of Mines students only. Lectures, recitations and field trips, without laboratory work. Prerequisite, Geol. 1a, 1b. Three credits; spring. Weaver.

21. Mineralogy.—Crystallography, followed by descriptive mineralogy and blowpipe methods. Prerequisite, Geol. 1a, 1b, and at least a high school course in chemistry. Lab. fee, $2. Five credits; autumn. Landes.

*101. History of Geology.

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; spring. Landes.

120. Petrology.—Study of the mode of occurrence and origin of rocks and their relation to geological processes and history. Prerequisite, Geol. 124. Lab. fee, $2. Four credits; winter. Goodspeed.

*121. Advanced Mineralogy.

*122. Field Methods.

123. Optical Mineralogy.—Principles and methods involved in the use of the petrographic microscope; recognition of the optical properties of the common minerals. Prerequisite, Geol. 1a, 1b, and 21. Lab. fee, $2. Three credits; spring. Goodspeed.

124. Petrography.—Systematic study, both microscopically and in thin sections with the petrographic microscope, of igneous, sedimentary, and metamorphic rocks. Prerequisite, Geol. 123. Lab. fee, $2. Three credits; autumn. Goodspeed.

125. Sedimentary Petrography.—Principles of correlation of sedimentary rocks by their mineral constituents. Methods of preparation involving the use of heavy solutions and the recognition of mineral grains under the petrographic microscope. Prerequisite, Geol. 120. Lab. fee, $2 to $5. Two credits, with additional credits optional; spring. Goodspeed.

126. Economic Geology.—Economic deposits of the principal nonmetallic minerals, their production and uses. Lectures and discussion of

*Not offered in 1928-1929.
Courses in Geology and Geography

papers. Prerequisites, Geol. 1a, 1b and 21. Three credits; autumn.

127. Economic Geology.—Economic deposits of the chief metallic minerals, their production and uses. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b, 21 and 124. Five credits; winter.

128. Economic Geology.—Petroleum fields of the world. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b and 2. Three credits; spring.

131. General Paleontology.—Principles of paleontology and a general systematic study of fossils. Prerequisite, Geol. 2. Lab. fee, $2. Five credits; winter. Landes.

132. Invertebrate Paleontology.—A study of the more important type fossils of each geologic period. Prerequisite, Geol. 131. Lab. fee, $2. Five credits; spring. Weaver.

140. Structural and Stratigraphic Geology.—Certain structural and stratigraphic features, and their practical applications. Prerequisites, Geol. 2, 120, and 122. Three credits; autumn. Weaver.

COURSES FOR GRADUATES ONLY

Two modern languages, a Teutonic and a Romanic, are practically necessary for graduate work in geology.

200. Field studies or advanced work in general geology. Credits and hours to be arranged. Each quarter. Landes, Weaver, Goodspeed.

220. Advanced or research work in mineralogy, petrography and petrology. Credits and hours to be arranged. Each quarter. Goodspeed.

225. Advanced or research work in economic geology. Credits and hours to be arranged. Each quarter. Landes.

230. Advanced or research work in paleontology and stratigraphy. Credits and hours to be arranged. Each quarter. Weaver.

II. GEOGRAPHY

The year in geography for Liberal Arts students may be satisfied by the following combinations: Geography 1. and 11 or 101 or 103; Geology 1a, 1b, and Geography 1 or 11.

For students in Business Administration, Geography 100, and 101 are suggested; for students in Oriental Studies, Geography 1 and 103; and for students in Education, Geography 1 and 160.

1. Principles of Economic Geography.—A study of the world from a regional standpoint, as a basis for the understanding of the adjustments which man makes to his environment. All the branches of human ecology, viz. economic geography, social geography, political, and historical geography are touched upon.

This course is planned as a science requirement for Liberal Arts students and also as a basic course in a broad, cultural education.

Teachers of geography will find it of especial benefit in providing them with the latest content and philosophy of their subject. Lab. fee, $1. Five credits; autumn and spring. Renner, Seeman.

Geographic Background of Industry.—See Bus. Adm. 7. Renner, Seeman.

11. Weather and Climate.—Weather elements and controls; causes and effects of atmosphere conditions; principles and methods of weather forecasting and use of instruments. Lab. fee, $1. Five credits; winter. Renner.
100. **Economic Geography of North America.**—A regional study of the continent, explaining the regional specialization in industry and geographic division of labor; analysis of the environmental factors which have occasioned the growth and character of the various sections of the United States; waterpower, conservation, growth of cities, foreign policies, and internal problems. Prerequisites, Geography 1, B.A. 7 or History 8 and 9. Five credits; spring. Renner.

101. **Industrial and Political Geography of Europe.**—A study of the geographic factors which have occasioned the growth of industrial Europe; Europe as an economic competitor of America; the geographic background for the rise of the Great Powers of Europe. Prerequisites, Geography 1 or 11, or B.A. 7. Five credits; autumn. Renner.

*102. Economic Geography of Latin America.*

103. **Political and Economic Geography of Asia.**—A study of the various countries of Asia and their division into geographic regions. A review of the factors of historical and social geography which have occasioned the present political and economic status of Asia. Prerequisites, Geography 1 or 11, or B.A. 7, or one course in Oriental Studies. Five credits; winter. Renner.

*104. Geography of Africa and Australasia.*

*111. Climatology.*

*112. Physiography of the United States.*

*114. Oceanography.*

*116. Economic Geography of Washington.*

**Teachers' Course in Geography.**—See Edu. 160F.

**COURSES FOR GRADUATES ONLY**

200. Advanced research work in geography. Credit and hours to be arranged. Autumn and winter. Renner.

203. Research in the geographic problems of Asia. Credit and hours to be arranged; spring. Renner.

212. Advanced studies or field work in physiography. Credit and hours to be arranged; each quarter. Renner.

**GERMANIC LANGUAGES AND LITERATURE**

Home Economics Hall

Associate Professor Eckelman; Lecturer Meisnest; Associates Wesner, Tersieff, Ankele; Assistant Professor Groth.

Requirements for a departmental major: at least 35 hours in the department chosen from courses other than German 1, 2, 3. At least 50 percent of the hours in the major must be in upper division courses. For the departmental or academic major, who wishes a recommendation to teach: the same, including German 110, 121, Educ. 160G and at least nine credits in literature.

Credit is allowed for any quarter in any course except 1-2.

*Not offered in 1928-1929.*
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. Meisnest, Groth, Wesner, Terzieff, Ankele.

3. First Year Reading.—Reading of modern prose, composition, continuation of grammar. Prerequisite, Ger. 1-2 or one year in high school. Five credits a quarter; autumn, winter, spring. Eckelman, Meisnest, Groth, Wesner, Terzieff, Ankele.

5. Second Year Reading.—Pronunciation, vocabulary building, reading of modern prose, simple conversation. Prerequisite, Ger. 3 or two years high school. Three credits; autumn, winter, spring. Meisnest, Groth, Ankele.

6. Second Year Rapid Reading.—Modern prose, vocabulary building, simple conversation. Prerequisite, Ger. 5 or 10; Ger. 3 Grade A, or on consent of instructor. Three credits; winter. Meisnest.

7. Second Year Rapid Reading.—Modern prose, vocabulary building, simple conversation. Prerequisite, Ger. 5 or 6 or 10 or 11. Three credits; spring. Wesner.

10, 11, 12. Second Year Review Course.—Modern prose, grammar review with emphasis on syntax, simple conversation. Prerequisite as for German 5. Two credits; autumn, winter; three credits, spring. Groth, Wesner.

60, 61. Lower Division Scientific German.—Introduction to chemical German. Class work. Suitable outside reading. Vocabulary building. Prerequisite, Ger. 5, or 10 or 11; Ger. 3 Grade A or B, or combinations with consent of instructor. Three credits; autumn, winter; two credits, spring. Wesner.

70. German Literature in Translation.—The best novels of the nineteenth century. A study of representative writers and of the forces that molded their work. Lectures, discussion, written reports. No knowledge of German required. Three credits, spring. Eckelman.

*100. Schiller.

103. Recent Writers.—The best prose and dramatic literature adapted to rapid reading. Representative of German middle class and industrial life. Discussions, oral and written reports. Prerequisite, three years high school or eight credits second year work in college. Three credits; autumn. Groth.

106. German Literature in Translation.—Goethe, the poet. An introductory study primarily of his lyrics, the approach to an understanding of the personality of the artist. Lectures, discussion, written reports. No knowledge of German required. Three credits, autumn. Eckelman.


108. German Literature in Translation.—The drama, primarily of the nineteenth century. The forerunners of Ibsen in Germany; Hauptmann; the post-war expressionism. A study of post-classical conceptions of the tragic. Lectures, discussion, written reports. No knowledge of German required. Two credits, winter. Eckelman.

110. Advanced Prose Composition.—Grammar and syntax, translation

*Not offered in 1928-1929.
and original composition, oral work, letter writing, themes, stage pronunciation. Prerequisite, three years high school or eight credits second year work. Three credits, winter.

114, 115, 116. Upper Division Scientific German.—Scientific essays, monographs, technical periodicals. Each student does private reading in his own field under guidance of the instructor and major professor. Conferences. Prerequisite, Ger. 5 and 10, 60 or 61, or three years in high school. Two or three credits a quarter; autumn, winter, spring. Meisnest.

*118, 119, 120. German Prose Reading.

121. Phonetics.—General differences between German and English pronunciation; organs of speech; systematic study of the nature, production and classification of the German speech sounds; stage pronunciation; phonetic transcription; drill and practice in oral expression and reading. Important for teachers of German. Prerequisite, Ger. 3. Two credits; autumn. Eckelman, Meisnest.

*130-131-132. German Institutions.

133. Modern Novels.—From the best prose literature after 1880. Storm's Schimmelreiter, Frenssen, Otto Ernst and others. Literary topics, oral and written reports. Prerequisite, Ger. 100 or equivalent. For majors, minors and advanced students. Three credits; autumn. Eckelman.

136. Modern Drama.—Contemporaries of Ibsen in Germany. Wilbrandt's Meister von Palmyra. Hauptmann, Sudermann and others. Literary topics, oral and written work. Prerequisite as for Ger. 103. Three credits; winter. Eckelman.

140. Studies in German Literature.

142. Lyrics and Ballads.

151. Lessing.—Life and dramatic works. Minna von Barnhelm, Nathan der Weise. Discussion, reports, assigned topics. Prerequisite, as for Ger. 103. Two credits; spring. Ankele.


COURSES FOR GRADUATES ONLY

*203-204-205. Storm and Stress Period.
*220-221-222. Inter-relations of German and English Literature.
*250-251-252. History of the German Language.
*253-254-255. Middle High German.
*256-257-258. Gothic.


Teachers' Course in German.—See Edu. 160G.

*Not offered in 1928-1929.
Courses in History

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.

192. Life of Words.—Two credits; spring.

HISTORY

Denny Hall and Philosophy Hall

Professors Meany, Richardson, McMahon; Associate Professor Lucas; Assistant Professor Creer; Instructors Quainton, Dobie, Dahlin; Associate Buchanan; Professor Gowen and Assistant Professor Griffin of the Department of Oriental Studies; Associate Professor MacNair of the Department of Political Science.

Requirements of the Department

The University requirements in history may be satisfied by one of the following courses:

Medieval and Modern European History (1-2). It is desirable that this course be selected in fulfillment of the history requirements and that it be taken in the freshman year. It is repeated each quarter.


English Political and Social History (5-6). Open without prerequisites to freshmen, sophomores and upperclassmen.

Ancient History (71-72-73). Open without prerequisites to sophomores and upperclassmen.

For a major at least fifty per cent of the credits in the department must be obtained in courses carrying upper division credit. Course 1-2 is required of all history majors.

It is recommended that all history majors shall take in excess of departmental requirements additional work in history and in certain related fields such as political and social science, modern foreign languages and literature, English and American literature, and philosophy. Selection should be made, under advice, among the following courses and sequences in correlated fields:

I. Political and Social Sciences.—Anthropology, (one of the following) 51, 101, 110, 185; Economics and Business Administration, 1, 103, 127; or 1, 61, 162; or 1, 160, 168; or Geology 10, followed by Economics 7; Political Science 1, 111; or 1, 112; or 151, 152, 153; Sociology 1, 150; Zoology 16.

II. Language and Literature.—English 134, to be taken in correlation with History 5-6 and to be followed by English 137; English 67, 68, 69; or 161, 162, 163; or 164, 165, 166, in correlation with American history courses.

Survey courses in foreign languages: French 118, 119, 120; German 105, 107, 108; Italian 184; Scandinavian 109, 110, 111; or 180, 181, 182; Oriental Studies 116, which correlates with ancient and medieval history courses.

Medieval Latin (Latin 153) is desirable for those who intend to study history for advanced professional purposes, and, in general, a reading knowledge of the basic language in the chosen field is indispensable for satisfactory graduate work.
III. Philosophy.—Philosophy 2 or 101-102-103.

Prospective teachers of history as a major subject in high schools who desire the recommendation of the department of history must become acquainted with the elementary facts requisite for the teaching of all courses in history, civil government, economics and sociology taught in the high schools of the state, and have specialized knowledge in their chosen fields. Courses in history, government, economics and sociology should be selected with this aim in view. The courses covering the fields of high school history are: History 1-2, 5-6, 57-58-59, 71-72-73. All of these courses in history are lower division courses and as majors in history are required to select at least fifty per cent of their work from courses carrying upper division credit, students unable to take these particular courses should select advanced courses in the same general fields. Prospective high school teachers of history should bear in mind that since Oriental History is not as yet offered in the high schools such courses should be treated as electives rather than as major courses in preparation for the normal diploma or positions as teachers.

1-2. Medieval and Modern European History.—General survey from the Roman world empire of Augustus to our own times. Five credits a quarter; autumn, winter, spring.

Lucus, Creer, Quainton, Dobie, Buchanan.

The above course is repeated beginning with the winter quarter.

5-6. English Political and Social History.—Political, social economic and intellectual development of the English people from the Saxon conquest to the present time. Five credits a quarter. By special work under direction of the instructor upper division students may receive upper division credit. Autumn, winter.

Richardson.

8. Westward Movement in the U.S. to 1812.—The advance of the frontier and its effect on American ideals from the colonial period to the war of 1812. Two credits; autumn.

Dahlin.

9. Westward Movement in the U.S., 1812-1860.—The frontier from the war of 1812 to the civil war. Two credits; winter.

Dahlin.

10. The Agrarian Crusade in the U.S., 1860-1924.—The agrarian movements for control, their causes and results. Two credits; spring.

Dahlin.

25. Introduction to History of Asia.—A resume of the main currents of human movement in the history of the continent of Asia. Five credits; autumn.

Gowen.

57-58-59. History of the United States.—A general survey with emphasis on political and economic history. Not open to freshmen. Three credits a quarter; autumn, winter, spring.

McMahon.

60. Makers of the Nation.—Period of Revolution and the Constitution. Two credits; autumn.

Meany.

61. Makers of the Nation.—Period of the Monroe Doctrine and Boundary settlements. Two credits; winter.

Meany.

62. Makers of the Nation.—Period of National Development. Two credits; spring.

Meany.

71-72-73. Ancient History.—History of the ancient Mediterranean world, Greece and Rome. By special work under direction of the instructor, upper division students may receive upper division credit. Not open to freshmen. Three credits a quarter; autumn, winter, spring.

Creer.
Courses in History

75-76. History of China.—Evolution of the Chinese people; cultural and institutional factors; and contemporary China with reference to these. In this course and in the History of Japan (Hist. 78-79) attention is paid to the history of Chosen (Korea). Prerequisite: ten credits in college history, or Oriental Studiesul 40-41. By special work under the direction of the instructor upper division students may receive upper division credit. Five credits; autumn, winter. MacNair.

78-79. History of Japan.—See above, Hist. 75-76. By special work under the direction of the instructor upper division students may receive upper division credit. Five credits; winter, spring. Griffin.

81. England Since the Accession of George I.—Construction of the British commonwealth, Imperial problems, internal economic and institutional developments, growth of democracy. Prerequisite, Hist. 1-2 or 5-6. By special work under the direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Five credits a quarter; spring. Quainton.

*85. Medieval Civilization: The Dark Ages.

86. Medieval Civilization, 1000-1250.—Thought, art, commerce, industry, religion and politics. By special work under the direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Prerequisite, Hist. 1-2. Five credits; autumn. Lucas.

101. Alexander the Great: His Empire and His Successors'.—Three credits; autumn. Creer.

*102. Greek Federal Leagues: Their History and Institution.

*103. The Roman Republic.

104. The Roman Empire from Augustus to Justinian.—Three credits; spring. Creer.

105-106-107. English Constitutional History.—Development of legal and governmental institutions of the English people to the present time. Valuable for students of political science and law as well as history. Prerequisite, Hist. 5-6, except for upper division students who are majoring in economics, sociology and political science, or who are taking 5-6. Open to pre-law sophomores who have taken 5-6 in freshman year. Pre-law sophomores who elect this course and have not taken 5-6 are required to take Hist. 108-109-110. Three credits a quarter; autumn, winter, spring. Richardson.

108-109-110. English Political History, Pre-law.—Open only to pre-law sophomores and majors in political science, economics and history who are taking Hist. 105-106-107. All pre-law sophomores who are taking 105-106-107 and who have not taken 5-6 or are not taking it, are required to take this course. Two credits a quarter; autumn, winter, spring. Richardson, Buchanan.

111. Greek Political Institutions.—Three credits; winter. Creer.

114. The Renaissance.—Thought, art, religion and politics from St. Thomas to Machiavelli. Prerequisite, Hist. 1-2 or 5-6. Five credits; winter. Lucas.

115. The Reformation.—The disruption of the Medieval Church through the rise of Anabaptism, Lutheranism, Calvinism, etc. Prerequisite, Hist. 1-2 or 5-6. Five credits; spring. Lucas.

117. France from the Reformation to the French Revolution.—Prerequisite Hist. 1-2; five credits; autumn. Quainton.

*Not offered in 1928-1929.
*121-122-123. Prussia and Northern Europe in the 17th and 18th Centuries.

125. Turkey and the Near East, 1453-1925.—The Near Eastern question; the rise, expansion and decline of the Ottoman Empire; the awakening and development of the Balkan peoples. Prerequisite, Hist. 1-2. Five credits; spring.

129. The French Revolution and Napoleonic Era.—Prerequisite, Hist. 1-2. Five credits; winter.

130. Europe, 1814-1870.—Prerequisite, Hist. 1-2. Five credits; spring.

131. Europe Since 1870: The War and its Background.—Historical background, fundamental causes and progressive development of events and issues in the world war. Five credits; spring. Richardson.

139. The Southern Colonies.—Open only to juniors, seniors, and graduates. Three credits; autumn.

140. The New England Colonies.—Open only to juniors, seniors, and graduates. Three credits; winter.

141. American Revolution.—Open only to juniors, seniors and graduates. Three credits; spring.

143. History of the United States, 1789-1815.—Open only to juniors, seniors, and graduates. Three credits; autumn.

144. History of the United States, 1815-1846.—Open only to juniors, seniors, and graduates. Three credits; winter.

145. History of the United States, 1846-1860.—Open only to juniors, seniors, and graduates. Three credits; spring.

147. History of the Civil War Period.—Open only to juniors, seniors and graduates. Three credits; autumn.

148. History of the Reconstruction Period.—Open only to juniors, seniors and graduates. Three credits; winter.

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.

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.

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.

*Not offered in 1928-1929.
Courses in Home Economics

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.

Teachers' Course in History.—See Education 160H.

COURSES FOR GRADUATES ONLY

201-202-203. Methods of Historical Research and Criticism—Required of all graduate students majoring in history. Two credits; autumn, winter, spring.

207-208-209. Problems and Sources of Greek and Roman History.—Two to five credits a quarter; autumn, winter, spring.

211-212-213. Research in European History (1300-1600).—Two to five credits. The student must first secure the approval of instructor. Lucas.


218-219-220. Seminar in European History: Pre-war.—Two credits a quarter.

221-222-223. Seminar in American History.—Two credits a quarter; autumn, winter, spring.

227-228-229. Seminar in State History.—Two credits a quarter; autumn, winter, spring.

HOME ECONOMICS

Home Economics Hall

Professor Raitt; Associate Professor Denny; Assistant Professors Payne, Bliss, Watt, Dresslar, Rivers

(For curricula in Home Economics see College of Science Bulletin.)

Food Selection and Preparation.—Courses 1, 4, 5, 9, 116, 120, 121, 183, 200.

Nutrition.—Courses 2, 104, 105-106, 107-108, 190, 191, 204, 205, 206.

Household Sanitation, Furnishings, Administration.—Courses 3, 43, 109, 143, 144, 145, 148, 203, 245.

Textiles and Clothing.—Courses 8, 25, 101, 102, 112-113, 127, 130, 131, 133, 135, 188, 207, 208, 209, 210, 211, 212.

Institutional Management.—Courses 122, 123, 124, 125.

Home Economics Education.—Courses 7, 111, 202, Educ. 1601, 160J.


*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.

*Not offered in 1928-29.
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. 1-2, Physiology 7. Two lectures and three 2-hour periods, recitation and laboratory work. Lab. fee, $6. Five credits; autumn, winter.

Dresslar.

7. **Home Economics Survey.**—Introduction to college work, opportunities offered by the University. The place of home economics, its history, objectives, professional opportunities. Related subjects. Personal accounts and budgets. Two credits; autumn, spring.

Raitt.

8. **Clothing.**—Construction of garments requiring hand and machine sewing. Study of materials and design. Comparison with ready-made clothing. Credit for high school clothing exempts students from this course. Three 2-hour periods, recitation and laboratory work. Lab. fee, $2. Three credits; autumn.

Payne.

9. **Nutrition for Hospital Students.**—Composition, principles underlying cookery; nutritive value of foods. Sanitation in relation to market condition and care of food after purchase. Open to student nurses only. Two lectures, one hour quiz and three 2-hour periods, recitation and laboratory practice. Lab. fee, $6. Six credits; autumn, winter, spring.

Dresslar.

25. **Textiles and Clothing.**—Identification and testing fabrics. Economics of the textile industry. Comparative values in all types of clothing. Hygiene of clothing. Care and renovation. Clothing budgets. Two lectures and three 2-hour periods, recitation and laboratory work. Lab. fee, $3. Five credits; autumn, winter, spring.

Denny.

43. **Home Sanitation.**—Selection, care and use of equipment. Cleaning and renovation of the materials of the household. Laundering, relation to textiles, equipment, practice. Efficiency studies. Three 2-hour periods, recitation and laboratory work. Lab. fee, $2. Three credits; autumn, winter.

Dresslar.

**Foundations of Healthful Living as Related to the Principles of Nutrition.**—(See P.E. 8, 9.) Principles of food and nutrition for various age groups. Sources of material and a study of the application of scientific principles. Autumn, winter, spring.

P.E. 8.—One lecture per week. One credit. Bliss.

P.E. 8, 9.—Two lectures per week. Two credits. Bliss.

101, 102. **Needlecraft.**—History of lace and needlecraft. Application of principles of design to problems in needlework related to dress and house furnishings. Prerequisites, 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.

Wait.

105-106. **Nutrition: Elementary Dietetics.**—Normal Human Nutrition and Diet for the Sick. For nurses, social service students and those wishing to obtain practical knowledge of nutrition as a part of a liberal education. Prerequisites, H.E. 4, Chem. 1-2, Physiology 7. Three lectures, two 2-hour periods, recitation and laboratory work. Lab. fee, $6. Five credits a quarter; winter, spring.

Wait.
107-108. Nutrition: Dietetics.—Principles of Human Nutrition.—Nutritive value of foods, normal and specific physical requirements at different ages, metabolism, food habits, group feeding problems. For teachers of home economics and those who will enter professions related to food and nutrition. Prerequisites, H.E. 5, Chem. 135-136. Pre-medical students, chemistry and physiology majors may enroll with instructor's consent. Three lectures. Two 2-hour periods, recitation and laboratory work. Lab. fee, $6. Five credits a quarter; autumn, winter.


111. Child Care and Development.—Heredity and eugenics. The psychology of children of pre-school age; physical care; hygiene of clothing. Prerequisites, Psych. 1, Nursing 5, H.E. 25. Prerequisite or parallel, H.E. 105 or 107. A preferred elective for majors in home economics. Field work and excursions on Saturdays. Lab. fee, $3. Three credits; spring. Kincaid, S. Smith, Soule, Denny.


120. Food: Advanced Food Preparation.—Finer processes in technique 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, 116. Two 3-hour periods. Lab. fee, $6. Three credits; autumn. Dresslar.

121. Food: Large Quantity Cookery.—Preparation of food in large quantities for cafeterias, tea rooms, dormitories, hospitals, and camps; institutional dietaries and menu planning. Prerequisite, 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.—A study of marketing, purchase of food materials for institutions, floor plans, equipment and supplies for food service rooms. Prerequisites, H.E. 5, 116, 106 or 108, 124. Three recitations. Three credits; winter. Lusby.


124. Practice Work, I.—Eight hours a week in University dining halls, under supervision of instructor. One hour conference a week. Two 4-hour periods or one full day should be arranged in the schedule. Prerequisites, H.E. 116, 106 or 108, Econ. 1. Three credits; autumn, spring. Lusby.

125. Practice Work, II.—Eight hours a week observation and practice in various institutions under supervision of the instructor. One hour conference a week. Two 4-hour periods or one full day should be arranged in the schedule. Prerequisites, H.E. 116, 106 or 108, Econ. 1, H.E. 124. Three credits; autumn, spring. Lusby.
Departments of Instruction


133. **Clothing: Costume Design.**—Development of fashion from ancient times to the present with emphasis upon the best art periods. Adaptation to the present mode. Prerequisites, H.E. 113, P.S.D. 169. Three 2-hour periods, two lectures. Lab. fee, $3. Five credits; spring. Payne.


143. **Home Furnishing.**—Application of structural art principles to choice and arrangement of household furnishings. Comparative costs. Prerequisite, P.S.D. 9. Two lectures and one 2-hour period, laboratory work, and Saturday excursions. Lab. fee, $3. Three credits; winter, spring. Denny.

144-145. **Household Economics.**—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. **Home Management House.**—Seniors live in home management house in groups of three for three weeks. They are responsible for organization of the group, financial management, records, housekeeping, hospitality and meals. Two credits; autumn, winter, spring. Bliss.

183. **Food: Experimental Cookery.**—Attention is given to acquiring correct technique in scientific investigation of problems in connection with food. Prerequisite, H.E. 116. Three 2-hour periods, recitation and laboratory work. Lab. fee, $3. Three credits; spring. Dresslar.


190. **Nutrition: Nutrition of Children.**—Work centers around the University Cooperative Child Nutrition Service. Consultation with physicians and instructor, follow-up case work in homes of the children and visits to institutions for child care. Prerequisites, H.E. 105 or 107. Two hours recitation, three hours laboratory period, three hours field work. Open to graduate and advanced undergraduate students. Lab. fee, $2. Four credits; winter, spring. Wait.

191. **Nutrition: Dietotherapy.**—Considerations of particular dietary needs of the sick and convalescent. Relation of certain disorders to nutrition. The function of nutrition as a curative and preventive factor in disease. Prerequisite, H.E. 107. Open to graduates and advanced undergraduates. Three lectures and recitations, one laboratory period. Visits to hospitals. Lab. fee, $4. Four to five credits; spring. Wait.

*Teachers' Course in Home Economics.*—See Educ. 160I, 160J.
Courses in Journalism


202. Seminar.—The present status of home economics education. Prerequisites, 30 credits in home economics. Credits to be arranged; autumn, winter.

*R203. Research.

204, 205, 206. Research in Nutrition.—Animal experimentation on some special problem, or library research. 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.

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.

210, 211, 212. Research in Costume Design.—Prerequisites, H.E. 112-113, 133. Credit to be arranged; autumn, winter, spring.

245. Research in Household Accounts and Budgets.—Prerequisites, H.E. 144-145, Econ. 1. Credit to be arranged; autumn.

JOURNALISM

Commerce Hall

Professor McKenzie; Associate Professor R. W. Jones; Laboratory Director Kennedy; Instructor Christian

1. Journalism as a Profession.—Survey of newspaper making in its various phases. For freshmen only. Lab. fee, $1. One credit a quarter; autumn.

51. News Writing.—Practice in news writing; study of news sources. Not open to freshmen. Required in the sophomore year of pre-journalism majors. Lab. fee, $2. Five credits; autumn, winter, spring.

61. The Community Newspaper.—Editorial, advertising, and circulation problems peculiar to the community weekly. Not open to freshmen. Required in the sophomore year of pre-journalism majors. Lab. fee, $1. Three credits; spring.

90, 91, 92. Current Events.—Current state, national and world movements. One quarter required of majors in journalism. Lab. fee, $1 a quarter. One credit a quarter; autumn, winter, spring. R. W. Jones, Christian.


102. Specialized Reporting.—Literary and dramatic criticism; the sporting page; financial, marine and business reporting; political reporting; foreign correspondence. Required of seniors in journalism. Prerequisite, Jour. 101. Lab. fee, $2. Five credits; spring. Staff.

104. Newspaper Administration.—Newspaper organization and management. Prerequisite, Jour. 51. Lab. fee, $1. Two credits; spring.

* Not offered in 1928-1929.

120. *Copy Reading.*—Required of majors in journalism. Prerequisite, Journ. 101. Lab. fee, $2. Five credits; autumn, winter, spring. Christian.


131. *Display Advertising.*—Prerequisite, Jour. 130. Lab. fee, $2. Five credits; winter. R. W. Jones.

133. *Advertising Typography.*—Type families; application of type; advertising type units; type problems. Prerequisite, Journ. 115. Lab. fee, $2. Five credits; spring. Kennedy.


150. *Editorial Writing.*—Required of majors in journalism. Prerequisite, Journ. 101 and 120. Lab. fee, $1. Five credits; autumn, spring. R. W. Jones.


170, 171, 172. *Magazine and Feature Writing.*—Practice in writing special newspaper and magazine articles; study of current magazines and newspaper supplements. Articles are graded according to their probable marketability. Lab. fee, $2 a quarter. Two credits a quarter; autumn, winter, spring. McKenzie.


174, 175. *Short Story Writing.*—Prerequisite, Journ. 173. Lab. fee, $2 a quarter. Three credits a quarter; winter, spring. McKenzie.

250. *Research in Journalism.*—Admission only by consent of the instructor. Three to five credits; autumn, winter, spring. Staff.

*Teachers' Course in Journalism.*—See Education 160K.
COURSES IN LAW

LAW

Commerce Hall

Professors Schweppe, Lantz, Goodner, Bissett, Ayer, O'Bryan, Nottelman, Martin; Lecturer Beardsley

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.


117-118. Torts.—Ames' and Smith's Cases, Pound's Ed. Four credits per quarter; autumn and winter. Ayer.

SECOND YEAR

110. Persons.—Woodruff's Cases. Three credits; winter. Goodner.

121. Legal Ethics.—Costigan's Cases. Two credits; autumn. Goodner.

125-126. Equity.—Cook's Cases (one volume edition). Five credits per quarter; autumn and winter. Nottelman.

128. Damages.—Beale's Cases on Damages, supplemented by Washington cases. Three credits; spring. O'Bryan.

129,130,131. Evidence.—Hinton's Cases. Three credits per quarter; autumn, winter and spring. Schweppe.

134,135,136. Legal Bibliography; Use of Law Books; and Brief-Making.—Two credits per quarter; autumn, winter, spring. Winter quarter required of all second-year students. Beardsley.

137. Negotiable Instruments.—Huffcut's Cases. Three credits; winter. Bissett.

138. Quasi-Contracts.—Woodruff's Cases. Three credits; spring. Lantz.


142-143. Public Utilities.—Smith and Dowling's Cases. Three credits per quarter; winter and spring. Nottelman.

146-147. Sales.—Woodward's Cases, 2nd Ed. Three credits per quarter; winter and spring. Ayer.

159. Wills.—Costigan's Cases. Three credits; autumn. Goodner.
Departments of Instruction


181. Landlord and Tenant.—Washington Cases. Three credits; spring. Bissett.

THIRD YEAR

133. Insurance.—Vance's Cases. Three credits; winter. Lantz.

*145. Irrigation Law.—Case book to be selected.


*156. Bankruptcy.—Holbrook and Aigler's Cases (2nd Ed.).

158. Mining Law.—Costigan's Cases. Three credits; winter. O'Bryan.


†162. Procedure V.—Continuation of Procedure IV; and including trials by jury and appeals. Three credits; winter. Goodner.

†163. Procedure VI.—Probate proceedings, covering administration of estates, probate of wills, appointment of guardians, etc. Four credits; spring.

165. Admiralty.—Lord and Sprague's Cases. Three credits; autumn. Lantz.

168. Conflict of Laws.—Lorenzen's Cases, 2nd Ed. Five credits; spring. Lantz.

170, 171. Constitutional Law.—Hall's Cases. Three credits per quarter; autumn, winter. Schweppe.


183. Suretyship.—Hening's Cases. Three credits; spring. Nottelman.

184-185. International Law.—The general principles of international law as developed by custom and agreement, and as exhibited in decisions of international tribunals and municipal courts, diplomatic papers; treaties, conventions, in legislation, in the works of authoritative writers, and in the conduct of nations. Scott's Cases. (May receive political science credit.) Three credits a quarter; autumn, winter. Martin.

187-188. Private Corporations.—Richards' Cases, 2nd Ed. Three credits per quarter; autumn and winter. Ayer.

191. Property V: Community.—Bissett's Cases. Five credits; winter. Bissett.

193. Trade Regulations.—Oliphant's Cases. Three credits; spring. Lantz.

196. Trusts.—Costigan's Cases. Five credits; autumn. Nottelman.

*197. Administrative Law.—Freund's Cases.

* Not offered in 1928-29.
† During the second and third years, five hours of class work in the Procedure courses and court room work and attendance outside of class hours may, in the discretion of the instructor, be required for the prescribed credits.

Note.—An average of fifteen hours or credits in each quarter is required, making a minimum total of 135 hours or credits for completion of the law course.

Students are limited to fifteen hours per quarter, except upon special permission of the dean.
Courses in Library Science

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 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. Demonstrations and discussions of the techniques and provinces of dancing, music, architecture, sculpture, painting, poetry and drama. Five credits; winter, summer. Cory.

214, 215, 216, 217. 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, summer. Cory.

LIBRARY SCIENCE

Library

Professors Henry, Smith; Assistant Professor Worden; Instructors Alfonso, Putnam; Assistant Andrews

The following courses are open only to students registered in the Library School.

175, 184, 191. Cataloging, Classification, Subject Headings.—Lectures, recitations and laboratory. Four credits each; autumn and spring. Three credits; winter. Smith

177, 185, 193. Reference.—These courses aim to give a working knowledge of important types of reference books. 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; winter. Putnam.

194. Subject Bibliography.—Preparation of bibliographic lists; lectures on sources and methods of work. Problems cover arrangement and form of entry. Two credits; spring. Smith.

186, 195. Practice.—Each student is expected to do 300 hours of practice or laboratory work under expert personal supervision. The practice work is given in both the University Library and the Seattle Public Library and consists of 15 hours per week for twenty weeks. Three to five credits, winter; three, spring.


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.
Departments of Instruction

179, 188, 196. Book Selection.—To cultivate taste and good judgment in evaluation of books through a study of the principles of book selection, annotation and book reviewing. Three credits; autumn. Two credits; winter and spring. Worden.

183. Children's Literature; Story Telling.—An elective course for students who wish to develop themselves as children's librarians. Students electing this will take the 3-hour course in Lib. Sci. 186. Two credits; winter. Andrews.

189. Introduction to Children's Work.—Two credits; autumn. Andrews.

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.

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.

199. Advanced Children's Work.—A special course for students specializing in this line and is to be elected in place of Lib. Sci. 194. Two credits; spring. Andrews.

MATHEMATICS

Philosophy Hall

Professors Morita, Winger, Carpenter; Associate Professor Gavett; Assist­ and Professors Neikirk, Ballantine, Zanstra, McFarlan, Mullemeister; Instructors Cramlet, Ingram, Jerbert.

Suggested courses of study will be found in the College of Science bulletin.

MINIMUM REQUIREMENTS OF THE DEPARTMENT

For a major in mathematics, 36 credits; including courses 4, 5, 6, 107, 108-109, plus six additional upper division courses.

For an academic minor in the School of Education, 20 credits; including courses 4, 5 and 6.

Candidates who are not majors in mathematics but wish to teach mathematics as a minor subject must have earned at least 20 credits in mathematics, including courses 4, 5 and 6, 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.

2. Solid Geometry.—Prerequisite, one year of plane geometry. Five credits; autumn, winter, spring.

4. Plane Trigonometry.—For students in the Colleges of Liberal Arts, Science, Education, Fisheries, Law, and Pharmacy. Prerequisites, one and a half years of algebra and one year of plane geometry. Five credits; autumn. Winger, Mullemeister, Jerbert.
Courses in Mathematics

5. College Algebra.—Prerequisite, Math. 1 or one and one-half years high school algebra. Five credits; winter. Winger, Mullemeister, Jerbert.

6. Analytic Geometry.—Especially for students in the Colleges of Liberal Arts and Science. Prerequisites, Math. 1 and 4. Five credits; spring. Winger, Mullemeister, Jerbert.

11. Theory of Investments.—Primarily for commerce students. Interest and annuities; annuities, amortization, capitalization and depreciation, sinking funds, etc. Prerequisite, one year algebra, one year geometry. Five credits; autumn, winter, spring.

13. Elements of Statistical Method.—Fundamental methods of statistical investigation and interpretation, with applications to problems in social, natural, economic and business fields. Emphasis will be given to critical examination of data, defining of statistical units, properties and appropriate uses of the more common averages and various methods and co-efficients of comparison. Application of various calculating instruments demonstrated. Prerequisite, one year algebra, one year plane geometry. Fee, $1. Five credits; each quarter. Gavett.

51. Trigonometry.—Primarily for engineering, mines and architecture students. Prerequisites, one and one-half years algebra and one year plane geometry. Four credits; autumn, winter, spring.

52. College Algebra.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 51. Four credits; autumn, winter, spring.

53. Analytic Geometry.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 52. Four credits; each quarter.

54, 55, 56. Mathematics for Architects.—Advanced numerical and graphical methods and solution of plane triangles by trigonometric methods. Prerequisite, one and one-half years algebra, one year plane geometry. Three credits a quarter; autumn, winter, spring. Neikirk, Cramlet, McFarlan.

61, 62, 63. Calculus.—Primarily for students in the Colleges of Engineering and Mines. Prerequisites, Math. 2 and 53. Three credits a quarter; autumn, winter, spring.

ADVANCED UNDERGRADUATES AND GRADUATES

101. Advanced Trigonometry.—Trigonometric series, DeMoivre's and Euler's theorems, hyperbolic functions. The elements of spherical trigonometry. Prerequisites, Math. 2 and 4 or 51. Two credits; autumn. Moritz.

102. Advanced Analytical Geometry.—Poles and polars, the general conic, abridged notation. Prerequisites, Math. 6 or 53. Two credits; winter. Carpenter.

103. Solid Analytical Geometry.—Fundamental theorems regarding the planes, lines, cones, cylinders, and quadric surfaces in general. Classification of quadric surfaces. Prerequisites, Math. 2 and 6 or 53. Two credits; spring. Moritz.


114, 115. Ordinary and Partial Differential Equations.—With applications to problems in physics, chemistry, astronomy and engineering. Prerequisite, Math. 109 or 63. Three credits a quarter; autumn, winter. Carpenter, Ballantine.
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.

*161, 162, 163. Analytical Mechanics.

164, 165, 166. Mathematics of Physics.—For students of science, aiming to give the student sufficient mathematics to enable him to read the easier scientific papers in the current literature. It presupposes a thorough grasp of elementary physics and mathematics through the calculus. Differential equations should be taken before or concurrently. Three credits a quarter; autumn, winter, spring. Neikirk.

Teachers’ Course in Mathematics.—See Educ. 160M.

COURSES FOR GRADUATES ONLY


204, 205, 206. Modern Algebra.—Three credits; autumn, winter, spring. Moritz, Ballantine.

*211, 212, 213. Foundations of Mathematics.


*221, 222, 223. Higher Plane Curves.

*224, 225, 226. Real Variables.

*227, 228, 229. Theory of Numbers.


235, 236, 237. Metric Differential Geometry.—Two credits; autumn, winter, spring. Carpenter.

251, 252, 253. Mathematical Journal and Research Club.—(No credit.)

MECHANICAL ENGINEERING

Engineering Hall

Professors Eastwood, Wilson, Winslow; Assistant Professors McIntyre, McMinn, Edmonds.

70. Elements of Gas Engines.—Arranged for the students in fisheries and forestry. Two credits; winter. Wilson.

71. Mechanism.—Operation of machines involving the transmission of forces and the production of determinate motions. Prerequisite, G.E. 13, Math. 52. Three credits; autumn, winter, spring. McIntyre, McMinn, Edmonds, Winslow.

82. Steam Engineering.—Various steam apparatus used in modern steam plants; construction, use and reason for installation. Not open to freshmen. Prerequisite, G.E. 2. Three credits; autumn, winter, or spring. Eastwood, McMinn, Edmonds, Winslow.

83. Steam Engineering Laboratory.—Calibrations of thermometer, gages and indicator springs; tests of the simple steam engine; one complete engine and boiler test with report. Preceded or accompanied by M.E. 82. Lab. fee, $2. Three credits; autumn, winter, spring. Wilson, McIntyre.

*Not offered in 1928-1929.
107. Heating and Ventilation.—An abridged course for students in the department of architecture. Prerequisite, junior standing. Two credits; spring. Eastwood.


115. Steam Engine Design.—Computations and drawings for the design of a steam engine. Prerequisite, M.E. 114, M.E. 124. Three credits; spring. Winslow.

123, 124. Engines and Boilers.—Generation and use of steam in various types of boilers and engines. Prerequisite, M.E. 83, 112, also preceded or accompanied by C.E. 131. Three credits a quarter; autumn, winter. Winslow.


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.


179. Steam Turbines.—Theory, construction and design of steam turbines. Prerequisite, M.E. 82. Three credits; spring. Eastwood.

182. Heating and Ventilation.—Various systems of heating and ventilating methods with designs. Prerequisite, M.E. 82. Three credits; autumn, winter. Eastwood.

183. Thermodynamics and Refrigeration.—Fundamental principles underlying the transformation of heat into work, with special application to engineering. Prerequisite, M.E. 82, junior standing. Five credits; autumn. Eastwood.

184. Power Plants.—Design of steam power plants, involving their location, buildings, prime movers, and power transmission. Prerequisite, M.E. 83, 123. Three credits; spring. Eastwood.

185, **186, **187. Naval Architecture.—Theory of naval architecture, as pertains to displacement, stability and strength, and the usual calculations involved in construction. Not open to freshmen. Three credits a quarter; spring, autumn, winter. Eastwood.

**188, **189. Ship Design.—Application of the principles of naval architecture to the design of a ship for a definite purpose. Prerequisite, M.E. 186. Two credits a quarter; autumn and winter. Eastwood

**190. Marine Engineering.—Power plant equipment of ships, includ-
Departments of Instruction

ing boilers, engines, auxiliaries and propellers. Prerequisite, M.E. 82, 185. Three credits; spring. Eastwood.


195. Thesis.—Investigation, design or experiment under direction of the professor in charge. Two to five credits; senior year. Eastwood.

198. Gas Engineering.—Development of gas engineering; stationary, marine, automobile and airplane motors, and gas producer plants. Prerequisite, M.E. 82. Three credits; autumn, winter, spring. Wilson.


COURSES FOR GRADUATES ONLY


ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

METALLURGY

Mines Hall

See Mining, Metallurgy and Ceramics.

MILITARY SCIENCE AND TACTICS

The Armory

Colonel Matthews, Major Greene, Major Muhlenberg, Major de Rohan, Captain Priest, Captain Meredith, Captain Williams, Lieut. Luce, Lieut. Hildebrand, Lieut. Young, Warrant Officer White, Warrant Officer Moller, Master Sergeant Lang, Staff Sergeants Compton, Bailey; Sergeants Beckett, Collins; Privates First Class Freeman, Whitchurch.

The instruction of the first two years, together with that provided for the third and fourth years, constitutes the courses prescribed by the war department for institutional units of the Reserve Officers’ Training Corps. The advanced courses, those of the third and fourth years, are open to students who have completed the first two years—basic course—of instruction and training.

The University has requested that it be given the government commutation for uniforms in this department. This commutation consists of $7.15 per student per year for two years. A University uniform has been adopted that will cost $30, but which, after deducting the commutation for two years, will net the student $15.70. The uniform is a substantial eighteen-ounce blue serge, consisting of cap, coat and trousers. With ordinary care it will serve the student for two years of school work.

Each student registering in this department will be required to provide himself with this uniform, which will be worn at drill with a pair of black shoes of army last, with white shirt, turn-down collar and black four-in-hand tie. The uniform is the personal property of the student. On completion of the first year’s work, he will be reimbursed to the extent of $7.15, and on completion of the second year’s work, with an additional $7.15.
Courses in Military Science

FIRST YEAR

1-2-3. Basic Infantry, Air Corps.—Marksmanship, military courtesy, military hygiene and first aid, physical drill, and command and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

4-5-6. Basic Coast Artillery.—Military policy, U.S.; military courtesy and discipline; artillery drill, infantry drill, physical training, ceremonies and gunnery instruction. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

11-12-13. Band.—Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

SECOND YEAR

51-52-53. Basic Infantry.—Scouting and patrolling, musketry, interior guard duty, automatic rifle, physical drill, and command and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

61-62-63. Basic Coast Artillery.—Military policy, U.S.; military courtesy and discipline; gunnery instruction to include fire control and position finding; artillery materiel and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

71-72-73. Basic Air Corps.—General air corps subjects, air corps weapons, communications, field engineering and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

81-82-83. Band.—Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

THIRD YEAR

101. Advanced Infantry.—Military field engineering, combat principles, and command and leadership. One and two-thirds credits; autumn.

102. Advanced Infantry.—Machine guns, and command and leadership. One and two-thirds credits; winter.

103. Advanced Infantry.—Machine guns, military sketching, and command and leadership. One and two-thirds credits; spring.

104. Advanced Infantry.—Military field engineering; combat principles of the defense, elements of military field engineering with a study of trenches, obstacles, shelters, etc. Combat principles of the squad and section, includes the service of security and attack. Command and leadership. Primarily for students majoring in military science. Three credits; autumn.

105. Advanced Infantry.—Machine guns; technique of fire, direct and indirect laying, machine gun characteristics, organization, elementary and advanced drill, machine gun in attack and defense, exercises with weapons and instruments, range and target exercises. Command and leadership. Primarily for students majoring in military science. Three credits; winter.

Departments of Instruction

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.


121. Advanced Air Corps.—Communication, liaison, aeronautical engines and leadership. One and two-thirds credits; autumn.

122. Advanced Air Corps.—Communications, liaison, aeronautical engines and leadership. One and two-thirds credits; winter.

123. Advanced Air Corps.—Aerial photography, minor tactics, aeronautical engines, administration and leadership. One and two-thirds credits; spring.

124. Advanced Air Corps.—Communications: Radio telegraphy and telephony; operation of instruments and ground panels; use of Very pistols, flares, and reflectors in liaison. Aeronautical engines; theoretical instruction on the Liberty 12 aircraft engine, including ignition and carburetion. Leadership. Primarily for students majoring in military science. Three credits; autumn.

125. Advanced Air Corps.—Communications: Radio telegraphy and telephony. Liaison with artillery, work of the Observation Squadron and Observer, reconnaissance, adjustment of fire, work with the infantry and cavalry. Theoretical instruction on rotary and radial engines, the Le Rhone engine. Leadership. Primarily for students majoring in military science. Three credits; winter.


FOURTH YEAR

151. Advanced Infantry.—Administration, military law, military history and National Defense Act. Command and leadership. One and two-thirds credits; autumn.

152. Advanced Infantry.—Infantry weapons (37 mm. gun and 3-inch trench mortar). Command and leadership. One and two-thirds credits; winter.
153. *Advanced Infantry.*—Combat principles. Command and leadership. One and two-thirds credits; spring.

154. *Advanced Infantry.*—Administration: lectures on practical administration of a company including interior economy and management, preparation of rosters, reports, correspondence and orders. Military law; military history and National Defense Act; military resources and military strength of the United States, the state of national defense for war at critical periods, the cost of American wars, the traditional policy of the United States. Command and leadership. Primarily for students majoring in military science. Three credits; autumn.

155. *Advanced Infantry.*—Infantry weapons: 37 mm. gun and 3-inch trench mortar, including nomenclature, use, care and repair, mechanics of weapons, practical exercises with weapons and instruments, range and target exercises, organization, communication, transportation, and combat principles of the offense and defense, special operations. Combat principles: combat principles of the platoon and company in attack, night operations, security on the march and at rest. Estimates of the situation, orders, messages and problems. Command and leadership. Primarily for students majoring in military science. Three credits; winter.


161. *Advanced Coast Artillery.*—Administration, 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.


167. *Military Thesis on Coast Artillery.*—Five credits; autumn, winter, spring.

171. *Advanced Air Corps.*—Military law, aerial gunnery, navigation, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; autumn.
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Departments of Instruction

172. Advanced Air Corps.—Bombardment equipment, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; winter.

173. Advanced Air Corps.—Airplanes, air corps organization, aeronautical engines and leadership. One and two-thirds credits; spring.

174. Advanced Air Corps.—Military law, aerial gunnery; use of the weapon in the air; use of the camera gun. Theoretical instruction in navigation, meteorology and its relation to aerial navigation. Aeronautical engines; theoretical instruction on the Hispano Suiza engines. Leadership. Primarily for students majoring in military science. Three credits; autumn.

175. Advanced Air Corps.—Theoretical and practical study of bombardment equipment. Aeronautical engines; practical work on the Liberty 12 aircraft engine, study of fusillade, wing surfaces, tail surfaces, control surfaces, struts, cones, and general equipment, preliminary instruction in rigging. Leadership. Primarily for students majoring in military science. Three credits; winter.


177. Military Thesis on Air Corps.—Five credits; autumn, winter, spring.

MINING, METALLURGY AND CERAMICS

Mines Laboratory

Professors Roberts, Daniels, Wilson; Assistant Professor Corey;
Lecturer Powell; Assistants Schoning, Herdlick.

I. MINING

Note.—Mining, metallurgical, geological, or ceramic experience. Each student is required to spend at least one summer vacation, or its equivalent, in practical contact with the industry, and to submit upon his return to college a detailed report of his observations. Work of this nature offers an opportunity to secure data and material for the graduation thesis.

51. Elements of Mining.—The field of mining, considering prospecting, boring, drilling, explosives, rock breaking, timbering, methods of development and working, transportation and drainage. Prerequisite, sophomore standing. Three recitations. Three credits; autumn. Daniels.

52. Elements of Mining.—Continuation of Min. 51, giving consideration to machinery and methods of working metal, coal, and placer mines, quarries, and clay deposits. Prerequisite, Min. 51. Two recitations, and one laboratory period. Three credits; winter. Daniels.

101. Milling.—Preliminary course, designed to familiarize all students in the college with the principles and uses of the various types of crushing, sampling, concentrating and washing machinery in the Mines Laboratory. Prerequisite, junior standing. Two recitations and one laboratory period. Lab. fee, $5. Three credits; autumn. Roberts.

103. Mine Rescue Training.—Twenty-five hours of instruction. Practice in the care and use of oxygen rescue apparatus, smokeroom training, and first-aid-to-the-injured work in the U.S. Bureau of Mines Safety Station. A government certificate is given on completion of the course. Required of all students in the College of Mines. One credit; winter. Daniels.
106. Mining Excursion.—A five days' trip, taken in the spring of the junior year to a neighboring mining region; detailed examinations of mining and metallurgical industries. Expense is approximately $25. One credit; spring. Roberts, Daniels.

107. Mining Excursion.—A five days' trip, taken in the spring of the senior year, similar to Min. 106. One credit; spring. Roberts, Daniels.

122. Coal Mining Methods.—Prospecting and development. Detailed study is made of a nearby mine. Prerequisite, Min. 51. Three recitations. Three credits; winter. Daniels.

151. Mining Engineering.—Lectures on exploration, mine development, power generation, air compression, hoisting and transportation. Practice with air compressors, machine drills, and mine equipment in laboratories and local plants. Prerequisite, senior standing. Two recitations, one laboratory period. Lab. fee, $5. Three credits; autumn. Roberts.

152. Ore Dressing.—Certain branches of ore dressing, mill tests of ores checked by assays. Prerequisite, senior standing. Three recitations and two laboratory periods. Lab. fee, $10. Five credits, spring. Roberts.

162. Cost of Mining.—Mining methods and costs. Prerequisite, senior mining standing. Three recitations and one laboratory period. Four credits; winter. Roberts.

*163. Mine Operation.  

170. Coal Mining Machinery.—Coal cutting machines, mine locomotives, fans, hoists, and pumps with especial reference to application to coal mining. Prerequisite, senior standing. Three recitations. Three credits; autumn. Daniels.

171. Mine Gases and Ventilation.—Composition and properties of mine gases, methods of testing; lighting of mines; principles of ventilation; ventilating machinery. Prerequisite, Min. 122. Three recitations. Three credits; winter. Daniels.

176. Coal Preparation.—Methods of preparing coal for market, together with laboratory tests and runs on various coals, to determine best methods of preparation. Prerequisites, Min. 101, Met. 103. Two recitations and two 4-hr. laboratory periods. Lab. fee, $10. Five credits; winter. Daniels.

178. Coal Preparation Machinery.—Machines and equipment used in tipples and washeries for the screening and washing of coal. Prerequisite, Min. 176. Two recitations. Two credits; spring. Daniels.

182. Mine Management.—Organization and administration of engineering plants, the keeping and interpretation of cost accounts, the efficiency of labor and methods, the financial, legal and social aspects of engineering operation. Prerequisite, senior standing. Three recitations. Three credits; spring. Daniels.

191, 192, 193, 194. Thesis.—Preparation of a graduation thesis in mining, metallurgy or ceramics. A fee of $5 a quarter is required to cover cost of materials. Completed thesis must be submitted at least one month before graduation. Prerequisite, senior standing. Total five credits allowed for thesis. Hours and credits to be arranged; autumn, winter, spring, summer. Roberts, Daniels, Corey, Wilson.

*Not offered in 1928-29.
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Departments of Instruction

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.

211, 212, 213, 214. Graduate Thesis.—Preparation of a thesis in mining, metallurgy, or ceramics. Prerequisite, graduate standing. A fee will be required if the work involves the use of laboratory materials or equipment. Hours and credits to be arranged. Total nine credits allowed for thesis. Autumn, winter, spring, summer.

221, 222, 223. Graduate Metal Mining.—Studies in metal mining or in ore dressing. Prerequisite, graduate standing. Hours and credits to be arranged.

251, 252, 253. Graduate Coal Mining.—Studies in coal mining or in the preparation or uses of coal. Prerequisite, graduate standing. Hours and credits to be arranged.

II. MINING AND METALLURGICAL RESEARCH

The Technical Staff of the United States Bureau of Mines Northwest Experiment Station in Co-operation with the Instructors in the College of Mines.

Class work is directed by members of the instructional staff of the University. Research work is under joint direction of the United States Bureau of Mines and the College of Mines. Subjects of research relate to the mining and metallurgical industries of the state and adjacent regions.

During the coming year investigations are contemplated in the following subjects:

1. The preparation and utilization of coal.
2. Clay washing and utilization.

III. METALLURGY


102. General Metallurgy.—Properties of metals and alloys, fuels, refractory materials; furnaces; the extraction of the common metals from their ores. Visits to smelters. Prerequisite, junior standing. Three recitations and one 4-hour laboratory period. Lab. fee, $10. Five credits; spring.

103. Fuels.—A study of all types of fuels now used in industry and a consideration of the most effective utilization of the country's present supplies. Consideration of future development of fuels. Laboratory work in analysis. Prerequisite, junior standing. Three recitations and one laboratory period. Lab. fee, $5. Four credits; winter.

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.

153. Wet Assaying.—Technical methods for the determination of cop-
Courses in Metallurgy and Ceramics

per, lead, zinc, etc., in ores and furnace products. For students in ceramics, analysis of clays and ceramic products. Prerequisites, Met. 102, Chem. 111. One recitation and two laboratory periods. Lab. fee, $12. Three credits; winter.

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. Corey.


162. Metallography.—Constitution and microstructure of metals and alloys, especially iron and steel. Prerequisite, senior standing. Two recitations. Two credits; autumn. Corey.

163. Metallography.—Preparation and study of metal sections, photomicrography and the use of the microscope in testing industrial alloys. One recitation and two laboratory periods. Prerequisite, Met. 162. Lab. fee, $5. Three credits; winter. Corey.

165. Metallurgy Calculations.—Physical chemistry of the metallurgist, slag calculations, etc., illustrated by figures quoted from the present practice at a number of smelting plants. Prerequisite, senior standing. Three recitations. Three credits; winter. Corey.

166. Electrometallurgy.—Study of methods and practice with special consideration of the possibilities of electrometallurgical industries in the Pacific Northwest. Prerequisite, senior or graduate standing. Three credits; spring. Corey.

221, 222, 223. Graduate Metallurgy.—Studies in metallurgy. Prerequisite, graduate standing. Hours and credits to be arranged. Corey.

IV. CERAMICS

90. Ceramic Materials.—Origin, occurrence, physical properties, and preparation of clays, feldspar, limestone, magnesite, silica and other materials used in the ceramic industry. Prerequisite, sophomore standing in engineering or mining. Three lectures or recitations. Three credits; spring. Wilson.

100. Ceramic Products.—Principles governing the shaping of structural, refractory and fine ceramic wares. Prerequisite, Cer. 90. Three lectures. Three credits; autumn. Wilson.

101. Drying and Burning.—Principles of drying and burning; the 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.

110. *Ceramic Physical-Chemical Measurements.*—Testing of clays and other ceramic materials. Determination of fineness of grain, shrinkage, porosity and specific gravity; plasticity, bonding power, vitrification and fusion, chemical purification and action of colloids. Prerequisite, Cer. 105. Lab. fee, $5 a quarter. Two laboratory periods. Two credits; spring. Wilson.

121, 122, 123. *Ceramic Products Laboratory.*—Laboratory production of structural wares, stoneware, yellow ware, porcelain and refractories. Blending, molding, drying, firing and glazing. Prerequisite, Cer. 101. Lab. fee, $10 a quarter. Three laboratory periods and two recitations. Five credits a quarter; autumn, winter, spring. Wilson.

**125, 126, 127. Ceramic Plant Design.**


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. Three lectures or recitations. Three credits; winter. Wilson.

221, 222, 223. *Graduate Ceramics.*—Studies of the ceramic resources of the Pacific Northwest, or in the manufacture of clay products. Prerequisite, graduate standing. Hours and credits to be arranged. Wilson.

**MUSIC**

Music Building

*Professors Glen, Rosen, Venino, Wood; Associate Professor Neuenham; Assistant Professors Van Ogle, Lawrence, McKay; Associates Bogardus, L. Venino, Lynch, Mabon; Instructors Neilson, Adams, Kirchner, Schumacher, Allen; Assistants Oliver, Canfield, Bamford, Burns.*

It will be noted that the courses in music are not hyphenated, but students who have not taken the first quarter’s work in courses that continue longer than one quarter, may enter courses subsequent to the first quarter only with the consent of the instructor in charge.

**Will be offered if a sufficient number of students elect the course.**
Courses in Music

All graduates in public school music should have at least two years of voice training.

Students majoring in public school music should consult early with their adviser concerning the selection of an appropriate minor.

6. Music History.—Progress of musical development from the primitive period to the modern. This course is more valuable if preceded by a course in appreciation. Five credits; autumn, winter, spring. Neilson.


‡10, 11, 12. Choral Study.—The University chorus provides opportunity for those qualified to study the more serious as well as the lighter forms of choral composition. Candidates must satisfy the director as to the extent of their musical ability. Fee, §1 for 10, 11. One credit a quarter; autumn, winter, spring. These courses may carry upper division credit in cases where the student has previously been enrolled in music courses for at least two years. Glen, Lawrence.

13. Music Appreciation.—To aid music students to become intelligent and discriminating listeners. Musical masterpieces, both instrumental and vocal, of different periods and forms, will be presented and discussed. Required of all music majors. Five credits; autumn, winter, spring.

16. Ear Training and Melody Writing.—Principles of melodic invention and training in hearing accurately; study in notation. Five credits; autumn, winter, spring. Newenham, Bamford.

18, 19, 20. Applied Music.—(Freshman.)

68, 69, 70. Applied Music.—(Sophomore.)

118, 119, 120. Applied Music.—(Junior.)

168, 169, 170. Applied Music.—(Senior.)

Students in other colleges and schools of the University may earn one or two credits a quarter in the applied music courses. Students of the College of Fine Arts carry a larger number of credits—one and one-half to three—as indicated in the set courses. Students enrolled in these courses will be given opportunity, on demonstration of the required ability, to participate in public recitals of the department.

Unless excused by reason of advanced standing on entrance, students who major in courses in applied music will require two lessons a week, ordinarily, to cover the work necessary for a degree. One to three credits a quarter.

(a) Piano.—Venino, Van Ogle, Mrs. A. F. Venino, Allen.
(b) Violin.—Rosen, Oliver.
(c) Voice.—Glen, Mabon, Bogardus, Lawrence.
(d) Violoncello.—Kirchner, Canfield.
(e) Organ.—Lynch, Wood.
(f) Band and Orchestra Instruments.—Adams.


25, 26, 27. Choral Study.—For freshmen. Part songs for men's voices. Only those who have successfully completed the work in course 11 will be eligible for registration in course 12.
Departments of Instruction

Candidates admitted only upon examination. Two credits a quarter; autumn, winter, spring.

28, 29, 30. Choral Study.—Part songs for women's voices. Only advanced students will be admitted. Two credits a quarter; autumn, winter, spring.

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.

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.

51. Elementary Harmony.—The harmonic series, intervals, and chord structure. Use of primary harmonies and bytones. Analysis and keyboard practice. Prerequisite, some knowledge of the piano, Mus. 9 and 16. Five credits; autumn, winter, spring.

53. Intermediate Harmony.—Secondary harmonies. Prerequisite, Mus. 51. Five credits; autumn, winter, spring.

56. School Music.—For supervisors. Study of materials for the primary grades, of the child voice in singing and practice in chorus conducting. Prerequisite, Mus. 9, 16. Five credits; autumn, winter, spring.

57, 58, 59. Advanced Sight Singing.

61, 62, 63. Advanced Ear Training.—Dictation and keyboard practice supplementary to harmony courses. Prerequisite, Mus. 16. Two credits a quarter; autumn, winter, spring.

65, 66, 67. Choral Study.—Not open to freshmen. Part songs for men's voices. Candidates admitted only upon examination. Two credits a quarter; autumn, winter, spring.

84, 85, 86. Advanced Voice Training.—Applied Music.—Two credits a quarter; autumn, winter, spring.

101. Advanced Harmony.—Chromatic harmonies and modulation. Prerequisite, Mus. 53. Five credits; autumn, winter, spring.

104, 105, 106. Advanced Music History.—Important periods and composers of modern music. Two credits a quarter; autumn, winter, spring.

109. Counterpoint.—Regulation of two or more concurrent melodies. Prerequisite, Mus. 53. Five credits; autumn, winter.

112. Music Form.—Analysis of many examples and simple exercises in composition. Prerequisite, Mus. 53. Five credits; autumn, spring.

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.

117. Elementary Composition.—Original work and arrangements for the more usual combinations of voices or instruments. Prerequisite, Mus. 101. Five credits; winter, spring.

124, 125, 126. Chamber Music.—Advanced study of musical literature for stringed trios, quartets and quintets. One credit a quarter; autumn, winter, spring.

*Not offered in 1928-1929.
Courses in Music


130, 131, 132. University Band (Advanced).—Continuation of the work of the freshman and sophomore years in the study and production of more difficult compositions for band. One credit a quarter; autumn, winter, spring. Adams.

140, 141, 142. Orchestral Instruments.—Especially for public school majors. Two credits a quarter; autumn, winter, spring. (May be counted as applied music.) Adams.

151, 152, 153. Advanced Music Appreciation.—Appreciative study of some modern composers and schools. Two credits a quarter; autumn, winter, spring. Van Ogle.

154, 155, 156. Music Supervision.—For seniors and students of experience. High school, normal school, rural, community music. Appreciation and theory problems. Courses of study. Prerequisite, Mus. 113, 114, and Educ. 160N. Two credits a quarter; autumn, winter, spring. Newenham.

157. Free Composition.—Pieces in the smaller forms for voices and for instruments. Prerequisite, Mus. 117. Five credits; winter. McKay.

163. Polyphonic Forms.—Free counterpoint applied to the invention, canon, fugue, etc. Analysis and composition. Prerequisite, Mus. 109. Five credits; autumn. 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.

173. Orchestration.—Characteristics of individual instruments and exercises in scoring for various combinations. Prerequisite, Music 117. Five credits; winter. McKay.

199. Senior Recital.—Two credits; winter or spring.

Teachers' Courses in School Music and Piano Playing.—See Education 160N and 160X.

Courses for Graduates Only

201, 202, 203. Graduate Composition.—Credits to be arranged, 24 to 36.

204, 205, 206. Research.—Problems in Music Education, History, or Aesthetics. Credits to be arranged. Maximum 12 hours.

207, 208, 209. Thesis.—Either an original contribution from the student's field of research, or an acceptable original composition in one of the larger forms, performed before a committee of the faculty. Nine credits.

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.

Piano

Freshman and Sophomore Years.—Major and minor scales and arpeggios; studies selected from Czerny, Cramer, Loeschorn, Kullak, Hiller and Krause; sonatas by Scarlatti, Haydn, Clementi, Mozart and Beethoven; shorter compositions and inventions by Bach; and works from the classic and romantic schools.
Departments of Instruction

Junior and Senior Years.—Scales in thirds, sixths and tenths; studies by Czerny, Clementi, Chopin, Brahms, MacDowell and Moszkowski; well-tempered Clavichord and suites of Bach; sonatas, pieces including at least one concerto, taken from the classic, romantic or modern composers. At least one recital program must be played from memory from the repertoire studied.

VOCAL MUSIC

The course in vocal music is even more flexible than that outlined for piano study. The purpose is to develop the voice and musical understanding so that the best in vocal music may be faithfully interpreted. The fact of having studied music for four years will not necessarily entitle a student to graduation.

Freshman.—Practical work in voice placing, breathing studies from among the following: Concone, Op. 9; Marchesi, Op. 1; Panofka, Op. 85; Vaccai, Book 1; simple Italian and English songs.

Sophomore.—Progressive tone work; Bordoni, Concone, Marchesi, Panofka, simple Italian arias, Italian and English songs.

Junior.—Tone work; advanced technique. Arias from Italian, French and German operas. German song classics; modern French and English songs.

Senior.—Tone work and technique. Repertoire in opera and oratorio; recitals; senior program.

VIOLIN


Sophomore.—Scales, Hrimay; Studies, Blumenstengel Op. 33, Mazas, Books I and II; Concerto, Accoly, Scene de Ballet, De Beriot.

Junior.—Scales; Exercises, Books I and II, Schraedieck; Etudes, Kreutzer, Fiorillo Rode, Rovelli; Concerto. 9, and 7, De Beriot; one sonata by Handel.

Senior.—Scales, Rosen; Etudes, Dancla; Op. 7, Gavini; Op. 35, Dont; Sonata for violin alone, Bach; Concerto, Bruch, Mendelssohn, D-Minor, Wieniawski and No. 4 Vieuxtemps.

In the last quarter the student is obliged to memorize one sonata by Bach for violin alone and one of the concertos given in the fourth year.

FEES

Since most of the work in the courses in applied music must necessarily be of the character of individual instruction, the student is required to pay tuition fees for this work in addition to the general University tuition fee. All fees are payable in advance to the comptroller of the University. The following quotations of regular fees are based on one lesson a week. More than one lesson a week will be charged for at the same rate. All lessons are one-half hour in length.

Chorus.—Music 10 and 11, $1.

Piano.—Mr. Venino, $25 a quarter; Mrs. Van Ogle, $25 a quarter; Mrs. Venino, $25 a quarter; Miss Allen, $18 a quarter.

Vocal Music.—Miss Mabon, $25 a quarter; Mrs. Bogardus, $25 a quarter; Mr. Lawrence, $25 a quarter.

Dean Glen will give individual instruction in singing and repertoire to a maximum number of 5 students. The fee will be at the rate of $27 a quarter for one lesson weekly.

Violin.—Mr. Rosen, $25 a quarter; Mrs. Oliver, $18 a quarter.
Courses in Nursing Education

Organ.—Mrs. Lynch, $25 a quarter; Mr. Wood, $25 a quarter.

Violincello.—Mr. Kirchner, $25 a quarter; Miss Canfield, $18 a quarter.

Band and Orchestra Instruments.—Mr. Adams, $20 a quarter.

Arrangements may be made for individual instruction in other musical courses if necessary or desirable.

Piano for practice may be rented at the comptroller's office at the following rates:

One hour daily, $3 a quarter.
Organ for practice; one hour daily, $12.50 a quarter.
Key deposit, $1 a quarter.

All rental charges must be paid in advance. No rebate in these charges will be allowed. Lessons lost through enforced absence may not be made up unless the teacher in charge has been previously notified of the intended absence and is willing to accept the excuse for the absence.

NAVAL SCIENCE AND TACTICS

Forest Products Laboratory


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 four-year course in Naval Science and Tactics prescribed by the Navy Department for institutional units of the Naval Reserve Officers' Training Corps may be substituted by the student for military training. Enrollment in this course is limited to fifty students each year. The naval course leads to a commission as Ensign in the United States Naval Reserve. Students for the course will be selected, from those applying, by the Professor of Naval Science and Tactics.

For those students who desire to major in Naval Science, a four-year curriculum has been arranged. (See curriculum G of the College of Science bulletin.)

Navigation has been dropped from the Naval Science course and will be given as separate courses under the College of Business Administration. These courses, B.A. 50-51-52 and 114 will be required of all Naval Science students.

FIRST YEAR

1-2-3. Basic Course.—Ordnance and Gunnery—Infantry and artillery drill, care and use of rifles and pistols. First aid and military hygiene, naval customs and etiquette. Seamanship—Handling of boats under oars and sail, knotting and splicing, life boat work. Signaling, rules of the road. Lectures on general naval subjects. Weather and laws of storms. Four hours per week plus one additional hour. One and two-thirds credits a quarter; autumn, winter and spring.

SECOND YEAR

51-52-53. Basic Course.—Ordnance and Gunnery—Infantry and artillery drill, machine guns, explosives; construction and use of large caliber naval guns. Seamanship—Anchor gear, handling heavy weights, handling steamers, duties of an officer. Lectures on general naval subjects. Four hours per
week plus one additional hour. One and two-thirds credits a quarter; au­
tumn, winter and spring.

THIRD YEAR

101-102-103. Advanced Course.—Ordnance and Gunnery—Armor, pro­jectiles and ammunition, machine guns and major caliber naval guns, fire control; torpedoes. Seamanship—Naval leadership, rules of the road, handling of ships in heavy weather, naval administration and discipline, naval communications. Engineering—Principles of engineering, boilers, reciproc­eating engines, steam turbines. Five hours per week plus one additional hour of drill. Three credits a quarter; autumn, winter and spring.

FOURTH YEAR

151-152-153. Advanced Course.—Ordnance and Gunnery—Principles of training, fire control, duties of gunnery officer and battery officer; defense against torpedo attack and aircraft; aerial gunnery and bombing. Seaman­ship—International Law, Military Law; formulation of orders, strategy and tactics. Engineering—Turbines, electrical propelling machinery, elec­tricity, design and operation of internal combustion engines, elements of radio telegraphy. Five hours per week, plus one additional hour of drill. Three credits a quarter; autumn, winter, spring.

NURSING EDUCATION

Home Economics Hall

Associates Elizabeth S. Soule, Kathleen Leahy.

1. There are three distinct types of work for majors in nursing in­cluded in this department.
   a. Five-year Curriculum: Three years of University work and two years in an approved hospital school of nursing, leading to a degree of bachelor of science in nursing and a hospital diploma.
   b. Three-year curriculum for graduate nurses leading to a degree of bachelor of science in nursing.
   c. One-year curriculum for graduate nurses leading to a certificate in public health nursing.
   d. Three months' service course for students who have entered hospital schools of nursing.

2. Service courses for majors in other departments.

3. Because of the desire to relate this work closely to outside institu­tions the following courses have been developed through the extension ser­vice department:
   a. A course leading to a certificate in public health nursing at Firland Sanatorium.
   b. An introductory course in public health nursing to senior stu­dents in general hospitals.

COURSES

1. History of Nursing.—Informational study of nursing from the earli­est times; traditions of nursing as a profession. A survey of the present field of nursing and discussion of problems. Open to any woman student in the University. Five credits; autumn. Leahy.

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. Leahy.
50. Principles and Practice of Elementary Nursing.—This course is intended to prepare the student to have a greater understanding of the responsibilities which she must take upon entering the Hospital School of Nursing. Open only to nursing majors. Fee, $2. Five credits; two lectures and three 2-hour laboratory periods; spring. Leahy.

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, spring. Soule.

110E. For Field Work, see Nursing 110E under Extension.

111. Supervised Field Work in School Nursing with the Medical Department of the Seattle Schools.—Twelve hours field work; one hour class. Prerequisite, graduate registered nurse. Three credits; autumn, winter, spring. Soule.

120. Public Health Nursing.—A non-technical course in public health. Deals with the modern public health movement in its various phases. Three credits; spring. Soule.

140. The Health Examination.—This course is especially planned for majors in physical education. It deals with methods of examination, symptoms, and disposition of cases from the educational point of view. Prerequisite, senior standing. Three credits; winter. Soule.

Health Education.—See Education 179; P.E. 6, 7.

COURSES FOR GRADUATES ONLY

200. Seminar.—The present status of nursing education with special reference to the hospital and public health field in the state of Washington. Prerequisite, graduate registered nurse; 30 credits in nursing. Credits to be arranged. Soule.

201-202-203. Problems.—In nursing education, administration, and public health. Prerequisite, graduate registered nurse; 30 credits in nursing. Credits to be arranged. Soule, Leahy.

BY EXTENSION

110E. 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.

ORIENTAL STUDIES

Professor Gowen; Assistant Professor Griffin; Cooperating: Associate Professors Skinner and MacNair.

The department presents the thought treasures, the history, and the institutions of the Asiatic world, and serves those persons looking forward to teaching, research, and other work concerned with Oriental peo-
Departments of Instruction

Pples and affairs. Its courses are of use to students whose occupations will in some measure call for knowledge of the Orient—in business and trade; in journalism; in educational, religious, or social activity among Oriental races, either in Asia or in this country; and in political or diplomatic life. Persons interested in these special fields may profitably consult with the department regarding the choice of Oriental studies and the relation to these of various courses offered by the different faculties. Undergraduate and graduate students whose chief work is to be in this department are expected on registering in it to ask for a List of Special Provisions relating to the following: concentration of courses, required courses, knowledge of history and criticism, language requirements and possibilities, preparation in education, the scope of courses devoted to particular nations or periods, departmental reading and tests, suggestions for systematic private reading, possible lines of study in the reading course, topics in the Oriental seminars, general meetings (for discussion) of those registered in the department, publications, prizes, research and types of direct experience in the Orient, special lectures, and Oriental matters of local interest. These provisions also include the numbers and names of relevant courses in other subjects.

The college requirement of ten credits in ancient languages and literature may be met by any two of the courses 50, 51, and 52. Courses 114, 115, 116 count for credit in the department of philosophy.

History 25 and Oriental Studies 120 provide introductions to the subject, in the first quarter. Oriental Studies 40-41 provides a knowledge of customs and ideas of present importance.

Fuller descriptions of courses appear in the department's General Statement, copies of which are available in the College and departmental offices.

COURSES


Introduction to History of Asia (History 25).—Resume of the main currents of human movement in the history of the continent of Asia. Five credits; autumn. Gowen.

†40-41. Civilizations of Eastern Asia and the Pacific.—Travel descriptions and customs. Attitudes, cultures, and institutions considered in relation both to existing situations and policies and to the earlier development of different elements in the intellectual and social life of China, Japan, etc. Hist. 25 or O.S. 120 a useful preliminary. Five credits; winter, spring. Griffin.

*44-45-46. No. 47-48-49. Chinese Language.—(See Extension courses of these numbers below.)

†50. Literature of India.—Indian literature from the Vedas to Rabindranath Tagore. Five credits; winter. Gowen.


*52. Literature of Persia.

*Not offered in 1928-1929.
†Upper division students may secure upper division credit by doing additional work.
Courses in Oriental Studies

*70. Literature of China.—(Offered in 1929-1930.)

†71. Literature of Japan.—Literary, historical, and philosophical works studied chiefly from a social viewpoint. Instructor's permission necessary for freshmen. Alternates with 70. Five credits; autumn. Griffin.

†History of China (History 75-76).—Evolution of the Chinese people; cultural and institutional factors; and contemporary China with reference to these. In this course and in the History of Japan attention is paid to the history of Chosen (Korea). Prerequisite, 8 credits of college history, or O.S. 40-41, or Hist. 25 and O.S. 120. Five credits; autumn, winter.

†History of Japan (History 78-79).—Description similar to that of Hist. 75-76, above. Five credits; winter, spring. Griffin.

*80. Semitic Literature.

101-102-103. Hebrew, Aramaic, or Arabic.—According to demand. Five credits; autumn, winter, spring.

104-105-106. Sanscrit.—Five credits; autumn, winter, spring. Gowen.

Political and Economic Geography of Asia (Geography 103).—A study of the various countries of Asia and their division into geographic regions. A review of the factors of historical and social geography which have occasioned the present political and economic status of Asia. Prerequisites, Geology 10 or 11, or B.A. 7, or one course in Oriental Studies. Five credits; winter.

*Geography of Africa and Australasia (Geography 104).

114, 115, 116. History of Religion.—I (autumn), primitive conceptions of religion; naturism and spiritism; II (winter), the religions of the Far East; and III (spring), Judaism, Christianity, and Muhammadan. Offered in alternate years. Three credits; autumn, winter, spring.

120. Problems of Eastern Asia and the Pacific.—An introductory case and problem approach to important questions, situations, and forces, of different types, considered as they actually are and in relation to the relevant historical background. Open to qualified sophomores. Five credits; autumn.

*125-126, 127.—Diplomatic History of Eastern Asia.—History of early dealings of Oriental peoples and states with one another; ideas and policies; the course of Western diplomacy in Eastern Asia and the Pacific; and newer tendencies. †To alternate with 225-226, 227. (Omitted in 1928-1929.)

International Relations of the Far East (Pol. Sci. 128, 129).—Prerequisite, Pol. Sci. 1. Five credits; winter, spring.

Trade of Far and Near East (Econ. 143).—Prerequisite, B.A. 7. Five credits; winter.

*Not offered in 1928-1929.
†Upper division students may secure upper division credit by doing additional work.
‡Attention of students interested in various aspects of Asiatic or European colonization in the Orient (present problems, methods, or history) is called also to O. S. 190, 191, 192, to Pol. Sci. 125, 128, 129, 168, 261, 252, and to Soclol. 184, 185, 186.
152-153-154. Hebrew, Arabic, or Sanscrit.—Advanced course in the languages. Five credits; autumn, winter, spring. Gowen.


Cultural Contact, Cultural Conflict, Cultural Accommodation (Sociol. 184, 185, 186).—(These bear mainly on Asia and Oceania.) Three credits; autumn, winter, spring. Price.

190, 191, 192. Reading Course.—Reading on single, selected topics, regular conferences (individual or in small groups), reports, essays and tests; instructor's permission necessary. Open to qualified sophomores. Two to five credits; autumn, winter, spring. Griffin.

Research in Geographic Problems of Asia (Geography 203).—Credit and hours to be arranged; spring. Renner.

Oriental Seminar.

225-226, 227. Seminar in Oriental Diplomacy.—Selected topics in the history of the dealings of Oriental peoples or states with one another or with Western states (with the United States, for 1928-1929). Intended to alternate with O.S. 125-126, 127. Three credits; autumn, winter. MacNair.

290, 291, 292. Thesis.—Directed investigation and writing in connection with work for advanced degrees. Credits to be arranged; autumn, winter, spring. Staff.

BY EXTENSION

E. 44-45-46. Chinese Language.—Introduction to the elements of Mandarin and the ideographs. Beginning students are strongly advised to plan to continue with the second-year course. For departmental credit 15 hours must be offered. Five credits; autumn, winter, spring.

E. 47, 48, 49. Chinese Language.—Second-year course. Each course a prerequisite to the following one. Three credits; autumn, winter, spring.

PAINTING, SCULPTURE AND DESIGN

Education Hall

Associate Professor Isaacs; Assistant Professors Pratt, Hill, Rhodes, Benson, Foote; Associates Patterson, Worman, Wood, Pennington; Instructors Buck, Padelford.

Students applying for advanced standing should present samples of work done, to the head of the department.

5, 6, 7. Drawing.—Elementary course. Charcoal and water color from casts and still life. Perspective. Prerequisite for any subsequent course in drawing and painting. Lab. fee, $1. Three credits a quarter; autumn, winter, spring. Patterson, Hill, Padelford, Worman.

9, 10, 11. Art Structure.—Principles of design in line, dark and light, and color to develop the power of appreciation and the ability to create good design. Prerequisite for any subsequent course in art structure. Lab. fee, $1. Three credits a quarter; autumn, winter, spring. Rhodes, Benson, Hill, Buck, Wood, Pennington.

*Not offered in 1928-1929.
†Attention of students interested in various aspects of Asiatic or European colonization in the Orient (present problems, methods, or history) is called also to O. E. 180, 191, 192, to Pol. Sci. 125, 126, 129, 158, 251, 252, and to Sociol. 184, 185, 186.
‡Absent on leave 1928-29.
Courses in Painting, Sculpture and Design

20. **Sculpture Appreciation.**—Illustrated lectures and demonstrations on the history and appreciation of sculpture. Two credits; spring. Pratt.

32, 33, 34. **Drawing and Sculpture for Architects.**—One quarter of sculpture and modeling from casts. Two quarters drawing from cast ornaments. Lab. fee, $2. Three credits a quarter; autumn, winter, spring. Pratt and Padelford.

53, 54, 55. **Art Structure.**—Principles of design applied in batik, tie and dye and wood-block printing. Prerequisite, P.S.D. 9, 10, 11. Lab. fee, $2. Three credits a quarter; autumn, winter, spring. Benson.

56, 57, 58. **Drawing and Painting.**—Still life, and cast. Oil painting. Introduction to drawing from life. Prerequisite, P.S.D. 5, 6, 7. Lab. fee, $1. Three credits a quarter; autumn, winter, spring. Patterson, Hill.

*59, 60, 61. **Household Design.**

62. **Essentials of Interior Design.**—Lectures on the art of home decoration. Intended to give the general student a practical knowledge of the subject. Illustrated with textiles, furniture, lantern slides. Special lectures and trips. Two credits a quarter; autumn, winter and spring.

65, 66, 67. **Drawing and Painting.**—Lab. fee, $1. Prerequisites, P.S.D. 5, 6, 7. Three credits; autumn, winter, spring. Padelford.

72, 73, 74. **Sculpture.**—Elementary course in modelling clay and wax from casts. Original compositions. Construction of plaster moulds. Lab. fee, $3. Prerequisite, P.S.D. 5, 10, 11. Three credits a quarter; autumn, winter, spring. Pratt.

80, 81, 82. **Furniture Design.**—Lectures on the history of furniture with the execution of original design for furniture. Lab. fee, $1. Prerequisites, P.S.D. 9, 10, 11. Three credits a quarter; autumn, winter, spring. Pennington.

101. **Public School Art.**—Elements of interior design, adapted to public school art. Prerequisites, P.S.D. 9, 10, 11. Two credits; autumn.

102. **Public School Art.**—Problems in representation, design, and industrial art. Adapted to grade, junior high, and high school courses. Methods of presentation. Lab. fee, $1. Prerequisites, P.S.D. 53, 54, 55, 56, 57, 58. Two credits; winter.

103, 104. **Pottery.**—Lab. fee, $2. Prerequisite, P.S.D. 5, 6, 7, 9, 10, 11. Three credits a quarter; autumn and winter. Worman.

105. **Art Structure.**—Design as applied to lettering. Prerequisites, 9, 10, 11, and 5, 6, 7. Three credits; winter. Buck.

106. **Art Structure.**—Poster designing. Prerequisite, P.S.D. 5, 6, 7, 9, 10, 11. Three credits; spring. Buck.


110, 111, 112. **Interior Design.**—Lab. fee, $1. Prerequisites, P.S.D. 9, 10, 11, 56, 57, 58. Three credits a quarter; autumn, winter, spring. Patterson.

116. **Illustration.**—Prerequisites, P.S.D. 9, 10, 11, 56, 57, 58. Lab. fee, 50c. Three credits; autumn. Rhodes.

122, 123, 124. **Sculpture.**—Continuation of courses 72, 73, 74, with modeling from the head. Lab. fee, $3. Prerequisites, P.S.D. 72, 73, 74. Three credits a quarter; autumn, winter, spring. Pratt.

126, 127, 128. **History of Painting.**—Evolution of the great schools of painting. Illustrated lectures and discussions. One credit a quarter; autumn, winter, spring. Isaacs.
Departments of Instruction

130. Pottery.—Advanced work with emphasis on glazing. Lab. fee, $2. Three credits a quarter; autumn, winter.

132, 133, 134. Advanced Sculpture.—Modeling from the head or figure. Compositions. Prerequisites, P.S.D. 122, 123, 124. Lab. fee, $3. Three credits a quarter; autumn, winter, spring. Worman.

151, 152. Art Structure.—Study and history of processes used in the art of the book. Compositions in block print. Lab. fee, $1. Prerequisite, junior standing. Three credits a quarter; winter and spring. Rhodes.


160, 161, 162. Life.—Lab. fee, $3. Prerequisite, junior standing. Three credits a quarter; autumn, winter, spring. Isaacs.

163, 164, 165. Composition.—Lab. fee, $1. Three credits; autumn, winter, spring.

166, 167, 168. Art Structure.—Problems in decoration related to the stage. Lab. fee, $1. Three credits a quarter; autumn, winter, spring. Benson.

169, 170, 171. Costume Design.—Prerequisites, P.S.D. 9, 10, 11. Lab. fee, $1. Two credits a quarter; autumn, winter, spring. Buck.

172, 173, 174. Interior Design.—Advanced problems in interior design in elevation and perspective. Lab. fee, $1. Five credits per quarter; autumn, winter, spring.

175, 176, 177. Advanced Painting.—Lab. fee, $3. Prerequisites, P.S.D. 56, 57, 58. Three credits a quarter; autumn, winter, spring. Isaacs.

179, 180, 181. Costume Design.—Prerequisite, 171. Two credits; autumn, winter, spring. Buck.

COURSES FOR GRADUATES ONLY

207, 208, 209. Portrait Painting.—In this course the student will do work of ample size and of a professional character. Lab. fee, $3. Five credits a quarter; autumn, winter, spring. Patterson.

260, 261, 262. Advanced Painting.—An intensive course in painting from life. Lab. fee, $3. Five credits a quarter; autumn, winter, spring. Isaacs.

263, 264, 265. Composition.—Lab. fee, $1. Three to five credits; autumn, winter, spring. Isaacs.

Teachers' Course in Methods in Teaching Art.—See Educ. 160P.

Suggested Courses in Commercial Art.—P.S.D. 9, 10, 11, 105, 106, 116, 151, 152, 5, 6, 7, 160, 161, 162.
Courses in Pharmacy

PHARMACY, PHARMACEUTICAL CHEMISTRY, PHARMACOLOGY, TOXICOLOGY, MATERIA MEDICA AND FOOD CHEMISTRY

Bagley Hall

Professors Johnson, Lynn, Langenhan; Assistant Professor Goodrich; Instructors Lofgren, Snidow and Assistants.

1, 2, 3. Theoretical and Manufacturing Pharmacy.—Principles of pharmaceutical operations, and manufacture of Pharmacopoeial and National Formulary preparations. Two lectures, one quiz and two laboratory periods a week. Lab. fee, $6.50 a quarter. Five credits a quarter; autumn, winter, spring. (Phar. 1, 2 repeated winter, spring quarters.) Lofgren and assistants.

4. Commercial Pharmacy.—Lecture course, covering the commercial problems of the practical pharmacist. Two credits; spring. Langenhan.

5, 6, 7. Drug Assaying.—Experiments in gravimetric and volumetric analysis. Training in fundamental principles of quantitative analysis with analysis of substances of pharmaceutical importance. Alkaloid assay of crude drugs and assay of volatile oils. Two lectures and three laboratory periods a week; autumn and spring quarters. Five credits; autumn, winter. Four credits; spring. Lab. fee, $6.50 in autumn and winter quarters, and $4.50 in spring quarter. Goodrich.

9, 10, 11. Prescriptions.—Theory and practical application of extemporaneous compounding. About 200 prescriptions are compounded, illustrating the theory of class room work. One lecture, one quiz, and one laboratory period a week. Lab. fee, $3 a quarter. Three credits a quarter; autumn, winter, and spring. Snidow and assistants.

12, 13. Materia Medica.—Crude organic drugs, their source, methods of collecting and preserving, identification, active constituents and adulterations. Three lectures a week. Three credits; autumn, winter. Goodrich.

15. Field Materia Medica.—Native medicinal plants of Washington and plants under cultivation in the drug garden. One laboratory period a week, consisting largely of work in the drug garden and field trips. Lab. fee, $1. One credit; spring. Goodrich.

101, 102, 103. Pharmacology and Toxicology.—Physiological actions of drugs in health and disease; therapeutic uses and posology; symptoms and treatment in cases of poisoning. Two credits a quarter; autumn, winter, spring. Lynn.

112. Materia Medica.—Advanced course in materia medica dealing largely with animal drugs and biological products. Three credits; spring. Goodrich.

113, 114, 115. Advanced Prescriptions.—Difficult and incompatible prescriptions. Special problems in dispensing, and new and non-official remedies. Manufacture of diagnostic reagents. Two lectures, one quiz and two laboratory periods. Lab. fee, $6.50 a quarter. Five credits; autumn, winter, spring. Langenhan and assistants.


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.

191, 192, 193. Research Problems in Pharmacy.—Open to juniors, seniors, and graduates. Lab. fee, $1 per credit hour. One to five credits; autumn, winter, spring. Langenhan.

195, 196, 197. Pharmaceutical Chemistry.—The pharmacy and chemistry of alkaloids, glucosides, 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, Langenhan, Goodrich, Johnson.

201, 202, 203. Investigation.—Graduate students may undertake original investigation in pharmacy, pharmaceutical chemistry, pharmacology, volatile oils and plant principles under the direction of an instructor. Laboratory fee, $1 per credit hour. Credit to be arranged. Autumn, winter, spring. Lynn, Langenhan, Goodrich, Johnson.

**PHILOSOPHY**

Philosophy Hall

*Professor Savery; Associate Professor Blake; Assistant Professor Langford; Associate Phillips.*

The Liberal Arts requirement is five credits in philosophy. This requirement may be satisfied by any one of the following courses: Philosophy 1, 2, 3, 5. (None of these has any prerequisites.) Philosophy 1, 2, and 5 are suited to arts-law students. Psychology 1 is required of majors in philosophy. Philosophy 2 or 3, 5, and 101-102-103 are required of majors.

At least 50 per cent of the hours in the major must be in upper division courses.

1. *Introduction to Philosophy.*—Not open to freshmen. Five credits; autumn, winter, spring. Blake, Langford and Phillips.

2. *Introduction to Social Ethics.*—Social ideals and problems, with special emphasis upon the opposition of democracy and aristocracy in government, industry, law, education, art and religion. Not open to freshmen. Five credits; winter. Savery, Langford, Phillips.


5. *Introduction to Logic.*—Conditions of clear statement, adequate evidence, and valid reasoning, and their establishment in the mental processes of the student. Not open to freshmen. Five credits; autumn, winter, spring. Langford.

101-102-103. *History of Philosophy.*—Ancient, medieval and modern. Open to juniors and seniors only. 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 sciences. Instructor's permission necessary. Three credits a quarter; autumn, winter, spring. Savery.
Courses in Philosophy

*113. Philosophy of Religion.

Oriental Studies. 114, 115, 116. History of Religion.—Autumn Quarter: primitive conceptions of religion; naturism and spiri­tism; Winter Quarter: the religions of the Far East; Spring Quarter: Judaism, Christian­ity, and Muhammadanism. Offered in alternate years. Three credits; autumn, winter, spring.

123. Philosophy in English Literature of the Nineteenth Century.—From Wordsworth to Shaw, Wells and Chesterton, and including Emerson, Whitman, Masters, and Mark Twain. Prerequisite, Phil. 1. Five credits; spring.

129. Esthetics.—Theories of the nature of Art, the nature of Beauty, and the various sources of esthetic effect. Open only to juniors and seniors. Five credits; autumn.

133. Ethical Theory.—An advanced course in the fundamental con­cepts and principles of ethics. Prerequisite, Phil. 2 or 3. Two credits; spring.

141-142-143. Contemporary Philosophy.—Modern movements and controversies. Readings and discussions on pragmatism, new intuitionism, mysticism, philosophy of faith, fate and free will, mechanism and vitalism, materialism and idealism, the finite and infinite, the new realism, etc. Pre­requisite, Phil. 1 or 101-102-103. Two credits a quarter; autumn, winter, spring.

COURSES FOR GRADUATES ONLY

207-208-209. Seminar in Philosophy of Science.—An advanced study of metaphysics. Open to students upon approval of instructor. Three credits a quarter; autumn, winter, spring.


227-228-229. Seminar in Esthetics.


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.


251-252-253. Research in Philosophy.—Open to students upon approval of instructor. One to six credits a quarter; autumn, winter, spring.

PHYSICAL EDUCATION FOR MEN

Assistant Professor Foster, Director; Assistant Professor Arbuthnot; ______; Associates Bagshaw, Edmundson, Graves; Professor Hall, University Health Officer.

The purpose of the department is twofold:
1. To provide opportunity for all men of the University to receive the biological and social benefits that come through participation in a ra­tional program of physical education.

*Not offered in 1928-1929.
2. To train directors, supervisors, and teachers of physical education for the playgrounds, elementary schools, secondary schools and colleges.

Requirements for Graduation.—Two years of physical education or military science and tactics are required of all able-bodied male students, with the exception of men over 24 years of age at the time of original entrance into the University.

Military Training.—Requirements in military science and tactics take precedence over the requirements in physical education. (See Military Science and Tactics.)

Health and Physical Examinations.—All students entering the University for the first time are required to receive a thorough medical and physical examination. The examination will serve to determine the course in which the student shall register.

Special Examinations.—All men who wish to engage in vigorous organized athletic contests are required to receive a medical examination the year of and previous to the sport in which they desire to participate.

Requirements for a Major.—Thirty-six credits including courses 80, 90, 110, 131, 132, 133, 141, 142, 143, 145, 150, 153, and four credits in advanced athletic methods. Students are advised to complete, in addition to the physical education major, a second teaching major, or two teaching minors. (Note: Course P.E. 153 is given by the department of physical education for women).

Academic Minor.—Minimum 20 credits including courses 80, 90, 141; 142, 143, 110 and four credits in advanced athletic methods.

REQUIRED COURSES

For Freshmen

1, 2, 3. Elementary Physical Education.—Organized class work in natural gymnastics, games and sports. Practice of the fundamental skills, self-testing activities, combat, self-defense. During the freshman year the student is introduced to a wide variety of activities with the hope that he may find several in which he wishes to specialize during the sophomore year. One and two-thirds credits a quarter; autumn, winter, spring.

5, 6, 7. Restricted Exercise.—Individual gymnastics, games and sports. Work adapted to meet the individual needs based upon the findings of the medical and physical examination. One and two thirds credits a quarter; autumn, winter, spring.

For Sophomores

51, 52, 53. Advanced Physical Education.—Advanced work in natural gymnastics, games and sports; self-testing activities, combat, self-defense. During the sophomore year the student is permitted to select three activities (one for each term) in which to specialize. One and two-thirds credits a quarter; autumn, winter, spring.

55, 56, 57. Restricted Exercise for Sophomores.—A continuation of Phys. Educ. 5, 6, 7. One and two thirds credits a quarter; autumn, winter, spring.

58, 59, 60. Physical Education Leadership.—A substitute for courses 51, 52, 53, for men who wish to develop leadership in physical education. Practice in teaching the activities in the regular physical education classes.
Courses in Physical Education

Students may register in this course only with the permission of the instructor. One and two-thirds credits a quarter; autumn, winter, spring.

PROFESSIONAL PHYSICAL EDUCATION COURSES

80. Introduction to Physical Education.—A general survey of the field; range and scope of activities including professional opportunities; relation of the required curricular courses to the special field. Two credits; autumn. Foster.

90. Personal and General Hygiene.—The laws of hygiene as they apply to the individual problem of adjustment. Health interpreted in terms of life values. Health information that affords a basis for intelligent selection in the formation of healthful habits and attitudes. Two credits; spring.

110. Athletic Training and First Aid.—This course will consider athletic training and conditioning with practice in the use of tests to determine condition. A study will be made of safety measures for the prevention of injuries, with practice in the recognition and treatment of injuries common to the playgrounds, gymnasium and athletic field. Two credits; spring.

113. Playground and Community Recreation.—Organization of recreational programs for children and adults. Use of facilities and equipment for boys clubs, scouts, camps, church, school recess, fraternal and industrial organizations. Classification of games and sports activities suitable for the various age groups. Demonstrations in the presentation of play materials. Observation of work in the city. Three credits; spring.

131. Kinesiology.—A study of body mechanics including muscles, bones, and joints. An analysis will be made of the fundamental movements involved in gymnastics, athletic sports and vocational activities with reference to mechanical structure and function. Prerequisites, Physiology 53, 54, 55. Zool. 1, 2. Three credits; autumn.

132, 133. Individual Gymnastics.—This course will consider physical abnormalities of the most frequent occurrence; relation of postural defects to organic function; methods of prevention and improvement with practice in the selection and application of corrective exercise to actual cases under supervision. Prerequisite, Phys. Educ. 131. Three credits a quarter; winter, spring.

141, 142, 143. Physical Education Methods.—Theory and application of educational method to the teaching of physical education in the elementary and secondary schools. Organization and class management. Participation in the activities of the program including wrestling, boxing, fencing, bodily contact activities, stunts, tumbling, athletic dancing and the fundamental skills of athletic sports. Three credits a quarter; autumn, winter, spring.

145. Principles of Physical Education.—Social, biological and educational foundations. A study of significant movements shaping the trend of physical education both past and present. The place of Physical Education in American life and its relation to general educational theory and practice. Formulation of the major aims and objectives. Prerequisites, Soc. 1, Educ. 101, Zool. 1, 2, Psych. 1. Three credits; autumn. Foster.

150. Physical Education Administration.—Organization and administration in the schools and colleges. Administrative problems of the director, supervisor and teacher. Relationship of the department to other depart-
Departments of Instruction


155. Scouting Principles and Practice.—Scouting education including its philosophy, pedagogy and psychology. A study of the aims, objectives, organization and management, along with the practical participation in the organization and use of subject matter. Five credits; winter. Arbuthnot.

The following methods courses are designed for men who wish to teach advanced groups:

170. Methods in Teaching Football.—Theory and practice of the fundamental principles underlying both individual and team play. Prerequisite, one season practice in college football. Two credits; spring. Bagshaw.

171. Methods in Teaching Basketball.—Individual and team development; offensive and defensive play. Two credits; autumn. Edmundson.


173. Methods in Teaching Baseball.—Fundamentals of batting, base-running and position play; theory and practice. Prerequisite, one season practice in college baseball or the equivalent. Two credits; spring. Graves.

174. Methods in Teaching Boxing and Wrestling.—Prerequisite, one season intramural or varsity practice. Two credits; autumn. Arbuthnot.

*175. Methods in Teaching Swimming and Diving.


Teachers' Course in Physical Education. (See Educ. 160S).

PHYSICAL EDUCATION AND HYGIENE FOR WOMEN

Gymnasium

Associate Professor Gross, Director; Lecturer Burdon; Assistant Professors deVries, McGoumd; Associates Helmich, Martin; Assistants Cundiff, Duncan, Jefferson, Rickey.

The health education requirement for all university women is represented by regular participation in healthful activities and in the lecture course on the fundamentals of healthful and efficient living.

(a) Healthful Activities. All women are required to elect some form of healthful activity during the first four quarters of university residence. In order that each student may have the vigorous wholesome activity necessary for promoting health, that she may develop social as well as individual motor skills and have opportunity for aesthetic expression, and that she may learn the elements of, and love for, a recreational hobby which she may continue in after years, it is recommended that she elect one of each of the following groups:

*Not offered in 1928-1929.
Courses in Physical Education—Women

**Group 1. Rhythmic activities.**—Natural dancing, folk dancing, and clog and character dancing.

**Group 2. Individual athletic activities.**—Tennis, golf, archery, canoeing, rifle shooting, and riding.

**Group 3. Group athletic activities.**—Baseball, basketball, volleyball, hockey, and soccer.

**Group 4. Swimming.**

Four quarters of activities are required for graduation. These courses give academic credit. Three additional quarters may be taken and will count as other academic credits for graduation.

(b) **Lecture Course in Health Education.** This course is given jointly by the Home Economics Department, Nursing Education Department, and the Physical Education Department. Its aim is to present the fundamental facts which serve as the basis of a development of intelligent attitudes toward individual, community, racial health.

Courses leading to a major in physical education are listed under professional courses in physical education. For curriculum in Physical Education, see College of Science bulletin, or School of Education bulletin.

**REQUIRED LECTURE COURSES FOR ALL UNIVERSITY WOMEN**

4, 5. **Health Education.**—The development of personal and social attitudes in matters of personal and community hygiene. Study of physiological facts related to these attitudes. Development of a social consciousness regarding personal and future problems in the matter of self-direction. One lecture a week for two quarters or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Burdon.

6, 7. **Health Education.**—The development of the public health program in rural communities and cities. Home care of patients, invalids, and babies. Public health and communicable disease. One lecture a week for two quarters or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Soule.

8, 9. **Health Education.**—Principles of food and nutrition for various age groups. Sources of material and a study of the application of scientific principles. One lecture a week for two quarters, or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Bliss

**ACTIVITY COURSES**

61. **Folk Dancing.**—Two hours of practice. One credit a quarter; autumn, winter. Martin.

62. **Clog and Character Dancing.**—Twice a week. One credit; autumn, winter, spring. Martin.

63. **Advanced Clog and Character Dancing.**—Twice a week. One credit; winter, spring. Martin.

64. **Hockey.**—Two hours of practice. One credit; autumn. Helmich, Duncan.

65. **Basketball.**—Two hours of practice. One credit; winter. Helmich.

66. **Advanced Basketball.**—Two hours of practice. One credit; winter. Helmich.

67. **Elementary Tennis.**—Two hours of practice. One credit; autumn, spring. Helmich, Cundiff, Duncan.
68. *Soccer.*—Twice a week. One credit; winter. Duncan.


72. *Rifle Shooting.*—Two hours of practice. One credit a quarter; autumn, winter, spring.

75. *Archery.*—Two hours practice. One credit; spring. deVries.

76. *Advanced Archery.*—Two hours practice. One credit; spring. deVries.

80. *Indoor Baseball.*—Two hours practice. One credit; winter.

81. *Baseball.*—Two hours practice. One credit; spring. Helmich.

82. *Volley Ball.*—Two hours practice. One credit; autumn, spring.

85. *Aquatic Sports, Canoeing.*—Two hours practice. One credit; spring. Martin.


91, 92, 93. *Natural Dancing.*—Two hours practice. One credit; autumn, winter, spring. deVries, Martin.

94. *Riding.*—This course will be given at the Washington Riding Academy. Fee, $6. Twice a week. One credit; autumn, winter, spring. Rickey.


96. *Intermediate Swimming.*—Two hours of practice. Fee, $1. One credit; autumn, winter, spring. Glover, Duncan.

97. *Advanced Swimming.*—Two hours of practice. Fee, $1. One credit; autumn, winter, spring. Glover, Duncan.

*Registration in the following courses is only upon the recommendation of an instructor following medical and physical examination.*

1, 2, 3, A to F inclusive. *Corrective Gymnastics.*—One credit; autumn, winter, spring. McGownd.

**PROFESSIONAL COURSES IN PHYSICAL EDUCATION**

100. *Survey of Physical Education as a Profession.*—Opportunities in the field. Relation of courses. Required of all physical education majors. Two credits; winter. Gross.


103-104. *Principles and Practice in Clog and Character Dancing.*—Teachers' course. Three hours practice. Two credits; autumn, spring. Martin.
Courses in Physical Education—Women

105-106. Principles and Practice in Folk Dancing.—Dances of the nations arranged for teaching in schools. Technique, methods of teaching, relation of music to dancing. Study of folk festivals, educational values, organization, costuming. Prerequisite, one year of dancing or Phys. Educ. 111, 112, 113. One hour lecture and two hours practical work. Two credits a quarter; autumn, spring.


114. Music in Physical Education.—Deals with study of fundamental structure of music as used in both dancing, interpretive dancing and rhythms for children; selection of music for festivals, pageants, and dance dramas. Two credits; spring. de Vries.


*127. Tests and Measurements.


134. Problems in Adapted Activities.—Special problems, including survey of hospital, grammar school and high school adapted activity work. Research in remedial and orthopedic fields. Problems selected will depend upon personnel of class. Prerequisite P.E. 131, 132 or equivalent. Credits 1-5 to be arranged; autumn, winter, spring. McGownd.


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. de Vries.

*Not offered 1928-1929.
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. de Vries.

*161. Normal Diagnosis.*

167. **Methods in Teaching Hockey.**—Methods in teaching hockey. Prerequisites, Psych. 1, and knowledge of and participation in hockey. One hour lecture and two hours practice. Three credits; autumn. Helmich.

169. **Methods in Teaching Tennis and Archery.**—Prerequisite, Psych. 1 and knowledge of and participation in both sports. One hour lecture, two hours practice. Three credits; spring. de Vries.

170-171-172. **Methods in Teaching Basketball and Baseball.**—Prerequisite, Psych. 1, Educ. 101 and knowledge of game. One hour lecture and two hours of practice. Two credits; autumn, winter, spring. Helmich.


P.E. 177. **Problems in Athletic Programs.**—Problems which evolve from the organization and instruction of sports and studies concerning the personnel of sport classes. Credits 1-5 to be arranged. Autumn, winter or spring. Helmich.

180-181. **Campercraft.**—This is a three weeks' course given in September at Hidden Cove Camp on Hood Canal. The course represents actual participation in camp organization and in camp activities, practice in soccer, water sports, swimming, canoeing, life saving, camp cooking, and overnight hikes. Required of all majors preferably at end of freshman year. Two credits.

**Teachers' Course in Phys. Educ.**—See Educ. 160R.

**COURSES FOR GRADUATES ONLY**

200. **Seminar.**—Present status of physical education with special reference to a state survey of standards, training of teachers, programs, equipment, schedules, etc. Prerequisite, 30 credits in physical education. Credits to be arranged; autumn, winter, spring. Gross.

201, 202, 203. **Problems in Physical Education.**—Special problems, including administration of school programs, organization of athletic activities, relation of physical education to extra-curricular activities, organization of remedial programs. Problems selected will depend upon personnel of class. Prerequisite 30 credits in physical education. Credits to be arranged; autumn, winter, spring. The Staff.

**PHYSICS**

Denny Hall

Professor Osborn; Associate Professors Brakel, Anderson, McCurdy; Assistant Professor Utterback; Associates Marick, and Higgins.

**Note:** Students, not in engineering, who do not have credit for a year of high school physics, must elect Physics 4, 5, 6. Engineering students without credit for a year of high school physics may elect Physics 97, 98.

*Not offered in 1928-1929.*
Courses in Physics

99, by registering for Section H in addition. For the present the H section will start with 97 in the autumn only.

1-2. General Physics.—Courses 1-2 will satisfy the physical science requirement in the colleges of Liberal Arts and Science. Prerequisite, a full year of high school physics. Lab. fee, $2. Five credits a quarter; autumn, winter.

3. General Physics.—Electricity. Required of physics majors, of mathematics majors taking physics as a minor; and of all pre-medic students. Prerequisite, Phys. 1-2. Lab. fee, $2. Five credits; spring.

4-5. General Physics.—For students without a year of high school physics. These courses will satisfy the physical science requirement in the Colleges of Liberal Arts and Science. Lab. fee, $2. Five credits; autumn, winter.

6. General Physics.—Electricity. Prerequisite, Physics 5. Lab. fee, $2. Five credits; spring.

7. Elementary Mechanics.—For engineering students lacking the mechanics of high school physics. No credit; autumn.

50-51. Sound and Music.—For fine arts students only. Lab. fee, $2. Five credits a quarter; winter, spring.

54. Photography for Amateurs.—Open to students who have had elementary physics or chemistry. Lab fee, $2. Three or five credits; spring.

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.

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.

98. Physics for Engineers.—Electricity. Prerequisite, Phys. 97. (See note). Lab. fee, $2. Five credits, autumn, winter, spring.


101. Introduction to Modern Theories.—Atomic structure, properties of electrons and protons, origin and properties of radiation, radio-activity, ionization, presented from the experimental viewpoint. Prerequisite, Phys. 3. Lab. fee, $2. Five credits. Two credits for graduate physics students. Autumn.

105. Electricity.—Prerequisite, Physics 3 or 6. Lab. fee, $2. Five credits; winter.

*111. Heat and Pyrometry.

113. Acoustics and Illumination.—For students in architecture only. Prerequisite, Physics 2. Lab. fee, $2. Four credits; spring.

115. Applications of Photography to Science Work.—Prerequisite, special permission. Lab. fee, $2. Three credits; winter.

*Not offered in 1928-1929.
COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES


156. Applications of Thermionic Vacuum Tubes.—Prerequisite, Physics 105 or 154. Lab. fee, $2. Three credits; autumn. Higgs.

*160. Physical Optics.

167, 168, 169. Special Problems.—Prerequisite, special permission. Credit arranged; autumn, winter, spring. Staff.

170. Spectrometry.—Prerequisite, 20 hours of physics. Lab. fee, $2. Five credits; spring. Osborn.

*185. X-Rays and Radio-activity.


COURSES FOR GRADUATES ONLY

*200-201-202. Dynamics.

203-204-205. Theoretical Electricity.—Three credits a quarter; autumn, winter, spring. Brakel.

*206-207. Vibratory Motion and Sound.

*210-211. Quantum Theory and Atomic Structure.

*212. Theory of Spectroscopy.

*213. Fine Structure of Spectral Lines,


*223. Gaseous Discharge.

225. Thermo Dynamics.—Three credits; autumn. Utterback.


*240-241-242. Theoretical Physics.

250-251-252. Research.—Credit arranged; autumn, winter, spring. Staff.

POLITICAL SCIENCE

Philosophy Hall

Professors Martin, Schwepp, George; Assistant Professors Cole, Mander, Wilson; Instructors Hulse, Wilson; Teaching Fellows Warner, Brown.

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

*Not offered in 1928-1929.
Courses in Political Science

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to prepare themselves for positions in the public service, national, state and local, and the foreign service; (4) students seeking courses in political science which are preparatory and supplementary to their work in the following professional schools—law, education, business administration, and journalism; (5) those who desire that systematic and intensive training which will prepare them as teachers or investigators in political science.

Prerequisites.—The normal prerequisite for all courses in the department is Political Science 1. For upper division courses, Political Science 51, 52 and 53, and elementary courses in economics, history and sociology are strongly recommended.

Subject Groups.—The work of the department is divided into the following groups: I. Political Theory and Jurisprudence; II. International Relations; III. National Government; IV. Local Government. A major student must select any one group as his chief interest before proceeding with upper division courses.

The Major.—Candidates for the bachelor's degree with political science as a major must offer 36 credits in political science of which at least 18 shall be in upper division courses.

Major programs must be approved by the department.

Programs must include a sequence of courses amounting to 11 credits in one group and at least five credits in each of the remaining groups.

Graduate Study.—For admission to graduate courses and to candidacy for higher degrees, see the announcement of the graduate school. Candidates for higher degrees in political science must register in the graduate seminar during every quarter of their residence, and in two research seminars, one of which must be in the field of the special investigation.

LOWER DIVISION COURSES

Elementary Courses, Primarily for Freshmen.

1. Comparative Government.—A study of representative types of government; presidential, parliamentary, federal, unitary. A rapid survey of the governments of the United States, England, France, Switzerland, Germany, and Czecho-Slovakia, comparing them in regard to powers, forms of organization, and function. Brief discussion of political parties, elections, political ideas and foreign relations. Five credits; autumn, winter, spring. Martin and Staff.

Intermediate Courses, Primarily for Sophomores

51. Principles of Politics.—A study of the origin, form, functions and nature of the state; its relations to individuals, to other states, and to other social institutions. Five credits; autumn. 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. Five credits; winter. George.

53. Problems of Democracy.—A consideration of problems peculiar to and growing out of the modern democratic state; problems of the electorate and of parties; popular methods of legislation. Five credits; spring. George.

UPPER DIVISION COURSES

Prerequisite: Political Science 1. Recommended: Political Science 51, 52 or 53, and one of the following courses: Economics 1, Sociology 1, History 1-2. No prerequisites for Political Science 101.

Required Course on Constitutional Government

101. Constitutional Government in the United States and in the State of Washington.—The framing of the American Constitution; the law of
Departments of Instruction

the Constitution; the spirit of the Constitution; the Constitution of the State of Washington. No prerequisites. Required of all candidates for the bachelor's degree during their junior or senior years who graduate after January, 1927, except students who take one of the following courses: Pol. Sci. 1, 112, 153; Law 170, 171; or one of the following sequences of courses: Pol. Sci. 151 and 163; Hist. 60, 61, 62 and 163-164-165; Hist. 143, 144, 145 and 163-164-165. Two credits a quarter; autumn, winter, spring.

Wilson, Meany.

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.

Wilson.

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.

Wilson.

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.

118. Elements of Law.—The development of some of the more elementary rules of the common law; the definition, sources and sanction of law; the judicial system of the United States and of the state of Washington; law and the public service. Open to pre-legal students in the lower division. Five credits; autumn.

Mander.

119. Jurisprudence.—Historical development of the science of jurisprudence; comparative legal systems; legal rights and duties; legal relations; fundamental legal theories; English and American legal institutions. Open to prelegal students in the lower division. Five credits; winter.

Mander.

120. Introduction to Roman Law.—The political and sociological implications of Roman law doctrines based upon the Institutes of Justinian, together with a summary of their development in modern continental codes. The course is designed to provide students with a comparative viewpoint so as to enable them to appreciate more clearly the essential characteristics of English legal and political theory. Discussion, lectures, assigned readings. Open to pre-legal students in the lower division. Five credits; spring.

Mander.

Group II.—International Relations

121. Foreign Relations of the United States.—Leading American foreign policies as regards Europe, Latin America and the Far East; the cardinal principles of American diplomacy; recent applications of the Monroe doctrine; the United States and the Great War; the League of Nations, and the Treaty of Versailles; contemporary questions of foreign policy. Three credits; autumn.

Mander.

122. Administration of American Foreign Affairs.—Organization of
Courses in Political Science

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 pow­
ers; American participation in international administrative and judicial
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. Wilson.

125. The Government of Dependencies.—The government and control
of the so-called backward peoples and areas of the world; colonial poli­
cies and administrative practices of the great powers; organization and ad­
ministration of mandated territories under the League of Nations. Five
credits; spring. Mander.

127. International Organization and Administration.—Early interna­
tional federations; unions of nations; international conferences and com­
misions; international legislation; contemporary efforts at international
organization, with special consideration of the League of Nations. Three
credits; spring. Wilson.

128, 129. International Relations of the Far East.—The foreign rela­
tions of China and Japan; the rise of Japan as a world power; recent
international conferences on the Pacific and Far Eastern questions. Five
credits a quarter; winter, spring. MacNair.

International Law.—(See Law 184, 185). Principles of International
Law.—The general principles of international law as developed by custom
and agreement, and as exhibited in decisions of international tribunals and
municipal courts, diplomatic papers, treaties, conventions, in legislation, in
the works of authoritative writers, and in the conduct of nations. Three
credits a quarter; autumn, winter. Martin.

Group III.—National Government

151. American National Government.—The formation and develop­
ment of the American constitutional system; government under the col­
onies; the executive; the Congress; the courts; parties and elections; evolu­
tion through court decisions and political practice. Five credits; autumn.
Hulse.

152. American Political Parties.—Party history; federal and state
party organization; nominations and elections; party control of the legis­
lature; the President as party leader; theory of American party divisions;
American public opinion; campaign methods; party responsibility; the rise

153. Introduction to Constitutional Law.—The American constitu­tional
system; the American judiciary; powers of the federal government; the
states and the nation; rights and duties of citizens; fundamental American
constitutional doctrines; leading decisions of the supreme court. Five
credits; spring. Hulse.

Constitutional Law.—See Law 171, 172.

155. Principles and Law of Public Administration.—The rights, duties
and liabilities of public officers; the public service; relations between poli­
tics and administration; rules, regulations and general practices developed
in the conduct of administrative commissions and boards; organization of
executive departments; administrative problems. Five credits; spring.

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. Five credits; autumn. \( Hulse \)

158. Governments and Politics of the Far East.—A study of the government and politics of Japan, China, Siam, and of semi-sovereign, federated, and dependent political entities of the Far East. Five credits; autumn. \( Mander \)

159. Government and Politics of the British Empire.—A study of the political institutions of the British Commonwealth of Nations, including Canada, Australia, New Zealand, South Africa, and the Irish Free State; the Constitution of the Empire; the imperial conferences; the development of the principle of self-government in the dominions. Five credits; winter. \( MacNair \)

Group IV.—Local Government

161. Municipal Government.—History and growth of cities; forms of city government; the municipal council; the city courts; the city and the state; the charter; reforms in city governments; present-day issues in municipal government. Five credits; autumn. \( Hulse \)

162. Municipal Administration.—The mayor; the city departments; the city employees; the civil service; city planning; water supply; streets and parks; waste disposal; health; police; fire protection; city revenues; education; public utilities; traffic regulation. Five credits; winter. \( Hulse \)

163. State Government and Administration.—Colonial origins; state constitutions; the governor; the state legislatures; relation of the state to the nation; the states and law; popular methods of legislation; organization and methods of state administration; administrative reorganization of state governments, with special reference to Washington. Five credits; spring. \( Hulse \)

COURSES FOR GRADUATES ONLY

201, 202, 203. Graduate Seminar.—For candidates for higher degrees in political science. Two credits; autumn, winter, spring. \( Staff \)

211, 212, 213. Seminar in Political Theory.—Readings and discussions based on the writings of first importance of the masters of political science. Two credits; autumn, winter, spring. \( George \)

221. Seminar in International Law and Diplomacy.—Special subject for investigation. The organization and work of the Permanent Court of Arbitration. 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. \( Hulse \)

256. Seminar in Comparative Government.—Topic: Dictatorship vs. Democracy. Two credits; spring. \( Mander \)

261. Seminar in Local Government.—Topic: The Criteria of Good City Government. Two credits; winter. \( Hulse \)
PSYCHOLOGY

Professors Smith, Guthrie; Associate Professor Esper; Instructors Gundlach, Wilkinson; Assistant Hermans.

Students in the College of Liberal Arts, as well as in the College of Science, may major in psychology.

The Liberal Arts requirements are five credits in psychology.

Students who have shown an aptitude in psychology, and who consider taking extensive work in this subject, are invited to confer with members of the staff in order to plan their work to advantage.

Majors in psychology may count five hours in Phil. 1 or Phil. 101-102-103 toward satisfying their major requirement.

1. General Psychology.—A survey of the science as a whole. Man's original nature, the way in which nature is altered by use, and the common modes of individual and social behavior that result. No prerequisites. Two lectures, two discussion periods, and one 2-hour laboratory a week. Fee, $1.50. Five credits; course repeated every quarter. Stat.

102. The Neural Basis of Behavior.—Contemporary neurological theory concerning action, the emotions, the regulatory functions, learning, and thinking. A fundamental course for majors and other students in psychology. Prerequisite, Psych. 1. Five credits; winter. Esper.

106. Experimental Psychology.—Students receive training in laboratory methods, are made familiar with the more important kinds of psychological apparatus, and perform many of the classical experiments in psychology. Prerequisite, Psych. 1. Three credits; winter. Esper.

107. Advanced Experimental Psychology.—Prerequisite, Psych. 106. Three credits; spring. Esper.

108. Essentials of Mental Measurement.—Ways in which experimental results are evaluated and treated. A knowledge of the subject matter of this course is necessary to the critical appreciation of all experimental findings. Required of majors in psychology. Prerequisite, Psych. 1. Five credits; winter. Guthrie.


110. History of Early Psychology.—Origin and development of psychology, beginning with the primitive conception of mind. Prerequisite, 10 hours psychology. Two credits; autumn. Esper.

111. History of Recent Psychology.—The development of experimental psychology. Prerequisite, Psych. 110. Two credits; winter. Esper.

112. Modern Psychological Theory.—A criticism and comparison of the theories of living American and foreign psychologists in the light of recent experimental findings. This may be taken to advantage concurrently with 113. Prerequisite, Psych. 1. Three credits; spring. Guthrie.

113. Structural Psychology.—The nature and analysis of consciousness and the relation of consciousness to behavior. Prerequisite, Psych. 1. Two credits; spring. Gundlach.

114. Current Psychological Literature.—Reading and discussion in the direction of the student's particular interest, acquainting him with a wide
range of subjects and the new developments in psychology treated in recent books and journals. Prerequisite, 10 hours in psychology. Five credits; winter.

116. Animal Behavior.—A course in comparative psychology dealing with the beginnings and development of mind, as shown in the behavior of animals under natural conditions and in the laboratory. Prerequisite, Psych. 1. Three credits; autumn. Guthrie.

117. Superstition and Belief.—Why we are superstitious. The psychological analysis and the historical development of certain false opinions. Prerequisite, Psych. 1. Two credits; winter. Smith.

118. Folk Psychology.—A psychological study of social human nature; language, custom, public opinion, morals, war, family, caste, nationalism, religion. Prerequisite, Psych. 1. Five credits; autumn. Guthrie.

120. Psychology of Beauty.—The nature of appreciation and an analysis of the factors which bring it about. Prerequisite, Psych. 1. Two credits; autumn. Guthrie.

121. Applied Psychology.—Psychology as applied to such fields as personal efficiency, vocational guidance, scientific management, social work, law, medicine, athletics, and business. Prerequisite, Psych. 1. Five credits; winter. Gundlach.

124. Psychology of Learning.—How habits are formed. Efficiency in learning, transfer of training, recent experimental findings. Prerequisite, Psych. 1. Five credits; autumn. Esper.

126. Abnormal Psychology.—Description and explanation of abnormal behavior. Psychoneuroses, automatisms, "The Unconscious," dreams, and sleep. Prerequisite, ten credits in psychology. Five credits; spring. Guthrie.

131. Child Psychology.—Individual and social development and their causes, from infancy to adult age, with the purpose of giving the student a scientific understanding of childhood. Prerequisite, Psych. 1. Five credits; autumn. Smith.


151, 152, 153. Undergraduate Research.—An opportunity, for promising students, to begin experimental work under direction. Prerequisite, 15 credits in psychology and permission of the department. Three credits each quarter. Staff.

COURSES FOR GRADUATES ONLY

Before a student registers for graduate courses, his topic for research must be approved by the department.

201, 202, 203. Graduate Research.—Each quarter. Credit to be arranged. Staff.

211, 212, 213. Seminar.—Open to all research students and majors. Two credits each quarter. Staff.
Courses in Romanic Languages

ROMANIC LANGUAGES AND LITERATURE

Denny Hall

Professors Frein, Ober, Umphrey; Associate Professors Patser, Goggio, DeVries; Assistant Professors Chessex, Garcia-Prada; Instructors Whittlesey, Sanches, W. Wilson, Simpson; Associates Hamilton, Southwick, Garcia; Assistant C. Wilson; Teaching Fellows.

Students entering with high school credits in French or Spanish will be admitted to classes upon the basis of one high school semester counting as the equivalent of one University quarter.

If, for any reason, a student who has done one year of French in high school needs to enter French 2 he will be given university credit therefor, but he will be required to finish French 3, 4 and 7 in fulfillment of the language requirement.

Exceptional cases will be determined by the executive officer of this department.

Students may not begin French I and Spanish I (nor Italian), during the same quarter; and it is better to have three quarters of one Romanic language before beginning another. If the entrance requirement in foreign language has not been fulfilled, no credits will be given for Courses 1, 2, 3, 4, and 7 in any of the Romanic languages. Freshmen and sophomores may enter any course, except graduate, for which they have the prerequisites. Graduate students working for the master's degree and offering a minor in French or Spanish will do not less than is required of majors working for the B.A. degree in this department.

I. GENERAL ROMANIC

34, 35, 36, or 134, 135, 136. General Romanic Literatures.—(Lower division students must use the numbers 34, 35, 36; upper division students must use 134, 135, 136.

This course deals with a number of great French, Italian and Spanish literary monuments from an early period to the present time. Its purpose is twofold:

1. To familiarize the students through a comparative study of these masterpieces with the great literary monuments of each respective country, and in so far as it is possible, with their influence upon the literatures of the other two.

2. To present to the students a brief survey of these three great Romanic Literatures.

Lectures in English and collateral reading of English translations. No knowledge of French, Italian or Spanish necessary. For students majoring in any one of the Romanic languages, credits in this course shall count for either French, Spanish or Italian. Upper division students will be required to do a reasonable amount of extra reading for their credits. Course may be entered any quarter. Three credits each quarter, autumn, winter, spring. Goggio.

Vulgar Latin. (See Latin 285, 286).—Graduate students in this department who are working for the doctor's degree may be required to follow this course given in the department of Latin. Three credits a quarter; winter, spring.

II. FRENCH

Requirements of the department. Majors and all who wish to be recommended to teach French shall be required to take French 41, 101, 102, 103 or 107, 158, 159, Educ. 160T, and electives amounting to nine or ten credits in courses in French literature numbered above 117. At least four
of the nine or ten 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.

71, 72, 73, or 137, 138, 139. Scientific French.—For students in science. Reading in their special lines will be assigned to the students majoring in the several sciences. Conferences will afford an opportunity for individual work. Two credits. Students of the lower division should register for French 71, 72, 73; those of the upper division for French 137, 138, 139. Prerequisites, French 6 and 9 or an equivalent. Whittlesey.

101, 102, 103. Composition and Conversation.—With each of these courses is offered (at the same hour, but not on the same days) a course in advanced reading. See French 104, 105, 106. Prerequisites, French 6 and 9. Three credits a quarter; autumn, winter, spring.

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.

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. Chessex.

118, 119, 120. Survey of French Literature.—Lectures in English and collateral reading of English translation. Those who have studied French sufficiently will be assigned French texts to read. No prerequisites. Three credits a quarter; autumn, winter, spring. DeVries.

*121, 122, 123. French Novel.

124, 125, 126. The Short Story.—Course conducted in French. Development of the short story from the fabliaux to modern times. Special attention will be given to the masters of the French short story, Daudet, Maupassant, and Bazin. Prerequisite, French 6 and 9. Three credits a quarter; autumn, winter, spring. Chessex.

*Not offered in 1928-1929.
Courses in French

127, 128, 129. Advanced Conversation for Majors.—Open only to majors and to those who, by their preparation could qualify as majors. Careful preparation for each day’s exercise will be required, and full credit given. Prerequisites, French 103 and 106, or equivalent. Two credits a quarter; autumn, winter, spring. 

Chessex.

131, 132, 133. Lyric Poetry.—Conducted in French. The best lyrics since the sixteenth century, especially those of Lamartine, Hugo and Musset. Rules of French versification. Prerequisite, French 106 or equivalent. Two credits a quarter; autumn, winter, spring.

Chessex.

*141, 142, 143. The French Drama.

151, 152, 153. History of the French Literature of the Nineteenth Century.—Lectures in French and assignments of reading to be done outside of class. Prerequisites, French 6 and 9 or equivalent. Three credits a quarter; autumn, winter, spring.

Patzer.

154, 155, 156. Contemporary French Literature.—A survey of French literature from 1900 to date. Lectures and assigned reading. Course conducted in English. Assigned reading in French for those who can read French; in English translation for those who do not know French. Prerequisite: Any student may enter this class if he has junior standing. Any freshman or sophomore may enter if he has had French 6 and 9, or equivalent. Three credits; autumn, winter, spring.

Patzer.

158, 159. Advanced Syntax.—French Syntax from the teacher’s standpoint. These courses are prerequisites to the teacher’s course. Prerequisite, French 103 or 107. Two credits a quarter; autumn, winter.

Frein.

161, 162, 163. Eighteenth Century Literature.—Lectures in French, and assigned reading and reports. Prerequisite, French 6 and 9, or equivalent. Two credits a quarter; autumn, winter, spring.

Patzer.

*171, 172, 173. Seventeenth Century Literature.

Teachers’ Course in French.—See Educ. 160T.

COURSES FOR GRADUATES ONLY

201, 202, 203. Middle French and Sixteenth Century.—Masterpieces of the fourteenth, fifteenth and sixteenth centuries will be read, and their influence upon later French literature studied. Open to graduates who have studied French at least four years. Two credits a quarter; autumn, winter, spring.

Frein.

*211, 212, 213. French Criticism.

221, 222, 223. Old French Readings.—One of the most helpful courses for teachers of French. Open to graduates who have studied French at least four years. Graduates who are not French majors will translate the Old French into English; French majors will be expected to translate the Old French into modern French. Five credits a quarter in autumn and winter; two credits in spring quarter.

Goggio.

231, 232, 233. History of Old French Literature.—Lectures in French on the entire field of Old French literature. Assigned reading in the chansons de geste, the Arthurian epic, and as many as possible of the masterpieces. For those who cannot read Old French, many translations into modern French are available. Prerequisite, four years of French, and graduate standing. Three credits a quarter; autumn, winter, spring.

Frein.

*Not offered in 1928-1929.
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III. 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. Italian 1 is repeated in winter, and 2 in the spring. Five credits a quarter; autumn, winter, spring.

111, 112, 113. Modern Italian Literature.—Prose and poetry of the eighteenth and nineteenth centuries. Lectures and collateral reading. Composition. Prerequisite Italian 3, or Italian 2 with grade of B. Three to five credits a quarter; autumn, winter, spring. Students must obtain the consent of the instructor to register for more than three credits.

*118, 119, 120. Survey of Italian Literature.

*121, 122, 123. The Italian Novel.

181, 182. Dante in English translation.—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 relation of these ideas to medieval thought. In Italian 181, given in the autumn quarter, Dante's Inferno and Purgatorio are studied, while the Paradiso is taken up in Italian 182, given in the spring quarter. No knowledge of Italian is necessary. Two credits a quarter; autumn, spring.

184. Renaissance Literature of Italy in English Translation.—Stress will be laid on the works of Petrarch and Boccaccio especially, and on those of Machiavelli, Castiglione, Cellini, Ariosto and Tasso. Lectures in English and collateral reading. No knowledge of Italian is necessary. Two credits; winter.

COURSES FOR GRADUATES ONLY

201, 202, 203. Early Italian Literature.—Open to all students who can read Italian. Research according to ability and special interests of the students. Three to five credits; autumn, winter, spring.

IV. PROVENCAL

For Graduates

223. Old Provencal.—Readings, mostly epic and lyric. Three credits; spring.

V. SPANISH

Requirements of the department: Spanish 159, 101, 102, 103, Educ. 160U, and at least nine credits of literature are required of majors and of all who wish to be recommended as teachers. Freshmen and sophomores may enter any course, except graduate, for which they have the prerequisite.

1-2, 3. Elementary.—Each of the courses 1, 2, 3 is repeated each quarter. No credit will be given for Span. 1 until 2 has been completed. Five credits a quarter; autumn, winter, spring.

4, 5, 6. Reading of Modern Authors.—Reading of some of the best works of the nineteenth century. Span. 4, 5, 6 may be combined with 7, 8,

*Not offered in 1928-1929.
Courses in Spanish

9, making a five-hour course each quarter. Prerequisite to Span. 4, is 3 or equivalent. Three credits a quarter; autumn, winter, spring.

7, 8, 9. Grammar, Composition, Conversation.—May be combined with Span. 4, 5, 6, making a five-hour course. Prerequisite to Span. 7 is 3. Span. 7 is prerequisite to 8. Two credits a quarter; autumn, winter, spring.

101, 102, 103. Advanced Composition and Conversation.—Prerequisite Span. 9. Three credits a quarter; 101, 102 repeated each quarter; 103 in winter and spring.

Garcia, Sanchez, Wilson.

104, 105, 106. Advanced Reading.—Prerequisite, Spanish 6 and 9. This course should be taken with Span. 101, 102, 103. Two credits a quarter; 104, 105 repeated each quarter; 106 in winter and spring.

Garcia, Sanchez, Wilson.

118, 119, 120. Survey of Spanish Literature.—Selected texts, collateral readings, lectures. Prerequisite, Span. 6. Two credits a quarter; autumn, winter, spring.

Umphrey.

*121, 122, 123. The Novel.

131. Lyric Poetry.

141, 142, 143. Spanish Drama.—Origins and early development; the Golden Age; Modern Period. Selected texts, collateral reading, lectures, reports. Prerequisite, Span. 102 or equivalent. Three credits a quarter; autumn, winter, spring.

Umphrey.

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. 102 or equivalent. Three credits a quarter; autumn, winter, spring.

Umphrey.

Teachers' Course in Spanish.—See Educ. 160U.

COURSES FOR GRADUATES ONLY

221. Old Spanish Readings.—Reading and linguistic study of the Poema de mio Cid and other Old Spanish texts. Five credits; autumn.

Umphrey.

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 1928-1929.
Departments of Instruction

SCANDINAVIAN LANGUAGES AND LITERATURE

Denny Hall
Professor Vickner

1-2-3. Elementary Swedish.—Grammar and reading; composition and conversation. Courses 1-2-3 are so arranged that they may be taken with 4, 5, 6, making a five-hour course. Three credits a quarter; autumn, winter, spring.

Vickner.

4-5-6. Swedish Reading Course for Beginners.—Reading of easy texts. Supplementary to courses 1, 2, 3, but may also be taken separately by students desiring a reading knowledge of Swedish. No previous knowledge of Swedish necessary. Two credits a quarter; autumn, winter, spring.

10-11-12. Elementary Norwegian-Danish.—Grammar and reading; composition and conversation. Courses 10, 11, 12 are so arranged that they may be taken with 13, 14, 15, making a five-hour course. Three credits a quarter; autumn, winter, spring.

Vickner.

13-14-15. Norwegian-Danish Reading Course for Beginners.—Reading of easy texts. Supplementary to 10, 11, 12, but may also be taken separately by students desiring a reading knowledge of Norwegian-Danish. No previous knowledge of Norwegian-Danish necessary. Two credits a quarter; autumn, winter, spring.

Vickner.

20, 21, 22. Norwegian-Danish Literature.—Representative authors will be read. Prerequisite, ability to read easy Norwegian or Danish. May be entered at the beginning of any quarter. Two credits a quarter; autumn, winter, spring.

Vickner.

23, 24, 25. Swedish Literature.—Representative authors in connection with a survey of the Swedish literature. Prerequisite, ability to read easy Swedish. May be entered at the beginning of any quarter. Two credits a quarter; autumn, winter, spring.

Vickner.

103, 104, 105. Recent Swedish Writers.—Representative writers of the nineteenth and twentieth centuries, including Strindberg, Fröding, Selma Lagerlöf. Prerequisite, relatively fluent reading knowledge of Swedish. May be entered any quarter. Two to four 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. Prerequisite, relatively fluent reading knowledge of Norwegian-Danish. May be entered any quarter. Two to four credits a quarter; autumn, winter, spring.

Vickner.

109, 110, 111. Modern Scandinavian Authors in English Translation.—Ibsen, Björnson, Strindberg, Selma Lagerlöf and Hamsun. Open to all. No knowledge of the Scandinavian languages necessary. May be entered any quarter. One credit a quarter; autumn, winter, spring.

Vickner.

180, 181, 182. Recent Scandinavian Literature in English Translation.—The principal writers of recent Scandinavian literature will be read. Lectures, reports and discussion. No knowledge of the Scandinavian languages necessary. May be entered at the beginning of any quarter. Two credits; autumn, winter, spring.

Vickner.
Courses in Sociology

Courses for Graduates Only

*201-202. Old Icelandic.

*203-204. History of the Swedish Language.

205-206. Scandinavian Literature in the Nineteenth Century.—Two to four credits a quarter; winter, spring. Vickner.

*208. Scandinavian Lyric Poetry.

*209. History of Scandinavian Literature.

Comparative Philology

190-191. Introduction to the Science of Language.—General principles of linguistic development with special reference to English. Lectures and discussions. Prerequisite, some knowledge of one of the classical languages and of one modern foreign language or Old English. Two credits; autumn, winter. Vickner.

192. Life of Words.—Etymology and semasiology; growth of vocabulary; word values. Lectures, discussions, and exercises. Prerequisite, same as for courses 190-191. This course is a continuation of courses 190-191, but may be taken separately. Two credits; spring. Vickner.

Sociology

Philosophy Hall

Professors Woolston, McKenzie (Chairman); Associate Professor Price; Assistant Professors Hayner, Stern; Associates Hathway, Guthrie, Rousseau.

Sociology treats of the development, organization and function of human groups. Its general purpose is to explain the relations of institutions; to stimulate a critical and constructive attitude toward programs of reform and furnish a sound basis of information for intelligent citizenship. It prepares for advanced study, field investigation, teaching and administration in community and industrial welfare, law, diplomacy, journalism, public health and institutional management; and supplements specialized training along these lines.

Sociology is related to many problems treated in biology, psychology, history, economics, politics, education, home economics, and literature. Majors are urged to consult members of the department staff regarding their elections. Work in other departments may be essential for success in this field, and may, when approved, be credited toward advanced requirements. Students should consult the department of sociology leaflet for a list of basic and supplementary courses.

Students are advised to postpone work in sociology until lower division requirements in biology, psychology, economics and political science are completed. Sociology 1 or its equivalent is prerequisite for those majoring or taking systematic work in the department, and satisfies minimum requirements in this subject. The following are fundamental for advanced work and should be taken by major students before electing special lines: Courses 55, 66, 131.

Further work is arranged along these lines:

A. Social Problems and Methods of Reconstruction offer prevocational instruction leading to two general lines of social work:

(1) Case and Group Work.

(2) Community Organization.
350

Departments of Instruction

B. Social Theory and Methods of Investigation offer preliminary training and background for vocational use as follows:

(1) Teachers of Social Science.
(2) Social Investigation.

A plan for sequence of courses preparing for each of these lines of work may be found in the department of sociology leaflet.

For a major in sociology a minimum of 36 credits is required. At least 50 per cent of the hours in the major must be in upper division courses. Upper division courses should not be elected before such elementary work as instructors in special fields may suggest is completed. Courses numbered over 200 are for graduates. Advanced students are required to secure the approval of their program by the executive officer of this department before completing their registration. Graduate students must complete undergraduate requirements before being accepted as candidates for the master's or doctor's degree in sociology.

1. Introductory Sociology.—General survey of social relations, with discussion of the forces, practical problems and methods of solution. Required of all students who major in the department. (Juniors and seniors may substitute 150, General Sociology). Fee $1.50. Five credits; autumn, winter, spring. Stern, Price, Hayner, and Associates.


56. The Family.—Family and marriage customs among preliterate peoples; processes and mechanisms of family interaction; the family as an institution; the home; the family and the community; family disorganization and reorganization. Materials fee, $2.00. Three credits; autumn, winter. Hayner.

57. Child Welfare.—Rights of childhood to health, education, recreation, protection; measures now in use to secure them. Three credits; winter. Hathway.

*61. The Small Town.


63. Community Organization.—Social conditions and theories that underlie the modern community organization movement. Experiments and methods that have evolved to prevent disorganization. Case studies of attempts at community organization. Three credits; spring. Hathway.

64. Field of Social Work.—Historical background and development of social work as a specialized field. Present scope, aims and methods. Typical problems and agencies; field trips. Three credits; autumn. Hathway.

65. The City.—Factors determining the growth, structure and composition of cities. Case studies of typical cities throughout the world. Should if possible be preceded by Soc. 55. Five credits; winter. McKenzie.

66. Group Behavior.—Why associated persons act in characteristic manner. Analysis of conditioning factors and collective response in typical

*Not offered 1928-1929.
Courses in Sociology

social groups, crowds, assemblies, parties, sects, etc. Prerequisite, five hours psychology and five hours sociology. Five credits; autumn.

67. Urban Attitudes.—Development of habits and standards in cities. Circumstances and interests controlling urban groups; economic, political and cultural peculiarities. Prerequisites, five hours psychology and five hours sociology. Five credits; winter.

Woolston.

68. National Traits.—Traditional differences between peoples. Historic backgrounds and prejudice. Problems of assimilation and amalgamation in America. Prerequisite, five hours psychology and five hours sociology. Five credits; winter.

Woolston.

80. Social Pathology.—The social factors involved and methods of dealing with physical defectiveness, feeblemindedness, insanity, narcotics, alcoholism, prostitution, poverty, vagrancy, juvenile and adult delinquency. Five credits; spring.

Hayner.

90. Social Change.—Innovation and conditioning factors. Sociological analyses and typical processes, contrasted with reform programs. Inertia, vested interests, leadership, trends. Prerequisite, five hours sociology or anthropology. Five credits, winter.

Price

*103. Problems of Maladjustment.

*105. Industrial Groups.

130. Social Surveys.—Methods of planning, conducting and presenting results of investigations of communities and institutions. Critical consideration of current methods. Lectures, problems and field work. Five credits; autumn.

131. Social Statistics.—Methods and sources for quantitative investigation, as applied to ethnography, demography, vital statistics, social maladjustment, and their related fields. Prerequisite Math. 13 or equivalent. Five credits; winter.

132. Social Exhibits.—Technique of preparing and exhibiting sociological data pertaining to community problems. Publicity devices, exhibits and campaigns. Five credits; spring.

140. Population.—A study of growth, composition and distribution of world populations. Three credits; autumn.

McKenzie.

141. Migration.—A study of human migrations, the factors determining them and the problems arising therefrom. Three credits; winter.

McKenzie.

142. Race Invasion.—General survey of race invasion and the conditions associated therewith; characteristic types of invasion; competition, segregation and dispersion as phases of the invasion cycle. Special attention given to race invasion on the Pacific Rim. Fee, $2.50. Three credits; spring.

McKenzie.

144. Social Frontiers.—A study of demarcation between races, nations, classes, sects and parties; contact, defense and penetration of boundaries; lines of cleavage within communities. Prerequisite, 10 hours of sociology or equivalent. Three credits: autumn.

Woolston.

145. Assimilation.—The fusion of cultures; programs of nationalization; traditional and experimental methods of training for citizenship. Prerequisite, 10 hours of sociology or equivalent. Three credits; winter.

Woolston.
Departments of Instruction

146. Cooperation.—Development of mutual aid in civilization; economic, political, and cultural forms; competition, monopoly and copartnership; means of expanding federation; consensus and concurrence. Prerequisite, 10 hours of sociology or equivalent. Three credits; spring.

150. General Sociology.—Major concepts of sociology and the scientific point of view in dealing with social phenomena. Prerequisite, junior standing and Soc. 1, or 10 hours in social science and psychology. Five credits; autumn, spring.

*151. Social Conflict.

*152. Social Control.


*154. Charity Organization and Administration.

155. Social Legislation.—An historical and critical analysis of the programs of social legislation in relation to child welfare and factory legislation in the United States and Europe. Five credits; spring.

156. Criminology.—Social, economic and hereditary causes of crime. Study of the criminal and his group relations. Five credits; spring.

158. Personality Problems.—Survey of the literature on personality; case studies of personality problems. Materials fee, $2.00. Two credits; autumn.

*159. Penology.

*160. Liberty.

*161. Equality.

*162. Fraternity.

164. Social Education.—Purpose, content and method of courses intended to promote good citizenship. Critical discussion of programs and texts used in Washington schools. Recommended for teachers of social science subjects. (Prerequisite, fifteen hours social science.). Two credits; spring.

171-172. Social Case Work.—Principles and methods of family case work; specialization of methods in care of the sick, children, the homeless, etc. Two hours class work, twelve hours supervised field work with local agencies. Prerequisite Soc. 64 or permission of instructor. Five credits; autumn, winter.


175. Social Work and Health.—Introduction to the point of view and method of social case work. Open to students from the department of Nursing Education, and to others with permission of instructor. Two hours class, 12 hours supervised field work. Five credits; autumn.

178. Social Work and the State.—An introductory course presenting a general view of state participation in social work in the United States and Europe. Five credits; winter.

* Not offered in 1928-1929.
Courses in Sociology

184. Cultural Contact (The Pacific Rim).—Routes and areas. Incentives and organizations involved—economic, missionary, diplomatic, etc. Problems of divergence in social ritual, technique, ideology, status. Prerequisite, 10 hours sociology or equivalent. Three credits, autumn.

185. Cultural Conflict (The Pacific Rim).—Friction and norms of adjudication; status, disorganization, and self-defense; funding attitudes; shifting regions of discussion and compromise; accentuators. Prerequisite, 10 hours sociology or equivalent. Three credits; winter.

186. Culture Accommodation (The Pacific Rim).—Effects of alien products and techniques; group-defense innovations; imported institutions. Cultural self-differentiation. Aims, traits, and trends. Prerequisite, 10 hours sociology or equivalent. Three credits; spring.

191. Advanced Case Work.—Methods of social work in a selected field. Two hours class; twelve hours supervised field work. Prerequisite, 171-172 or equivalent. Five credits; spring.


194. History of Social Thought I: From Primitive Times to the Industrial Revolution.—Movements in social thought will be presented through the teachings of outstanding representatives who will be interpreted in their cultural, economic, ideological, political, and religious setting. Prerequisite, 10 hours sociology or equivalent. Five credits; autumn.

195. History of Social Thought II: From the Industrial to Contemporary Times.—Prerequisite 10 hours sociology or equivalent. Five credits; winter.

*196. Recent Social Thought.

197. America in Civilization.—The processes at work in the formation of the American culture pattern will be analyzed in terms of culture accumulation and diffusion, cultural inertia and cultural lag. Five credits; spring.

COURSES FOR GRADUATES ONLY

200. Secret Societies.—Growth, organization and activity of mystery groups—fraternal, religious, craft and political. For advanced students in social psychology. Two credits; autumn. Woolston.

201. Public Opinion.—Character and operation of beliefs formed by general discussion. Problems of propaganda, criticism and education. Advanced students only. Two credits; winter. Woolston.

207-208-209. Community Research.—Original investigation of special community problems. Prerequisite, graduate standing. Two credits a quarter; autumn, winter, spring. McKenzie.

210-211-212. Departmental Seminar.—Open to graduate students completing independent investigations and to instructors in the department. Two credits each; autumn, winter, spring. Members of the department.

*Not offered in 1928-29.
Departments of Instruction

ZOOLOGY

Science Hall

Professor Kincaid; Associate Professors Guberlet, E. V. Smith; Assistant Professors Miller, Hatch; Instructor Mentzer.

1-2. Elements of Zoology.—General review of zoological science, stressing the philosophic and economic aspects of the subject. Lab. fee, $2. Five credits a quarter; autumn, winter, repeated winter, spring. Kincaid, Hatch and Assistants.

3-4. Pre-Medical Zoology.—For students entering a medical course. Lab. fee, $2. Five credits a quarter; autumn. Kincaid, Hatch and Assistants.

5. General Embryology.—Comparative developmental history of animals, with emphasis on vertebrate forms. Prerequisite, Zool. 1-2, or 3-4. Lab. fee, $2. Five credits; spring. Guberlet.


101. Cytology.—The structure and activities of the animal cell with special reference to problems of development, sex-determination, and heredity. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, $2. Five credits; spring. Miller.

102. Experimental Zoology.—An experimental study of the organism as a dynamic unit, including problems of development, growth and regeneration, and response to external factors. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, $2. Five credits; spring. Miller.


112. Insect Morphology.—The structure and taxonomy of insects. Prerequisite, Zool. 1-2 or equivalent. Lab. fee, $2. Five credits; spring. Hatch.

121. Microscopic Technique.—Methods of imbedding, sectioning and staining animal tissues. Prerequisite, Zool. 1-2 or its equivalent. Lab. fee, $2. Three credits; winter. Guberlet.

125, 126. Invertebrate Zoology.—The morphology, physiology, life history and habits of invertebrate animals, with special reference to the local marine fauna. Prerequisite, Zool. 1-2 or 3-4. Lab fee, $3.50. Five credits a quarter; autumn, winter. Miller.

127, 128. Comparative Anatomy.—Comparative structure of the vertebrate animals. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, $3.50. Five credits a quarter; autumn, winter. Miller.
Courses in Zoology

**155, 156, 157. Elementary Problems.—Students will be assigned minor problems under direction of an instructor in the department. Prerequisite, twenty hours in zoology or physiology. Lab. fee, $2. Three credits; autumn, winter, spring. Staff.

Teachers' Course in Zoology.—See Educ. 160Z.

COURSES FOR GRADUATES ONLY

201, 202, 203. Research.—Students capable of carrying on independent work will be assigned problems under direction of an instructor. Prerequisite, twenty-five hours of zoology. Credit to be arranged. Lab. fee, 50¢ per credit hour. Staff.

205, 206, 207. Advanced Problems.—Designed especially for graduate students working for the doctor's degree. Hours and credits to be arranged. Staff.

210, 211, 212. Seminar.—Reports and discussions of current zoological literature. The history of zoology. One credit; any quarter. Staff.

PHYSIOLOGY

6. Elementary Physiology.—Human structure and function, designed to meet the needs of students in pharmacy. Lab. fee, $3. Five credits; autumn. Mentzer.

7. Elementary Physiology.—Structure and functions of the human body, with special emphasis on metabolism, and the nervous and vascular systems. Lab. fee, $3. Five credits; autumn, winter, spring. Mentzer, Smith.

20. Physiology for Hospital Students.—A special course for hospital students. Two credits; autumn, winter, spring. Mentzer, Smith.

53-54-55. Physiology.—Adapted to meet the requirements of students expecting to teach the subject in high school. Required of students majoring in physical education and nursing; recommended for students in dietetics and in sanitary science. Lab. fee, $4. Five credits; autumn, winter, spring. Smith.

115. Principles of General Physiology.—Application of the laws of physics and chemistry to physiological processes. Prerequisite, one year each, zoology, chemistry and physics. Lab. fee, $3. Five credits; winter. Mentzer.

151-152-153. Advanced Physiology.—Arranged for students in medicine and advanced students who wish to make a careful study of experimental methods. Prerequisite, Zool. 1-2, Chem. 23 and Phys. 3. Lab. fee, $5. Five credits a quarter; autumn, winter, spring. Smith.

**Will be offered if a sufficient number of students elect the course.
SUMMER QUARTER

Burd, Henry A., Ph.D. ................................................................. Director

Facilities.—The summer quarter is an integral part of the University year and its courses coordinate with those of the other quarters. It offers special opportunities for teachers and others whose regular work is suspended during the summer months.

Regular work is offered in the Colleges of Liberal Arts, Business Administration, Fine Arts, Science, the Graduate School, the Schools of Education, Journalism, and Law, and in the pre-medical course. The Puget Sound Biological Station at Friday Harbor maintains a session of nine weeks.

The laboratories and libraries are open and the various departments offer both undergraduate and graduate work equal in quality to that maintained during the rest of the year. In most departments three grades of work are offered: (a) courses for beginners, (b) courses for advanced undergraduates, and (c) courses for graduate students. In a large number of cases, heads of departments are in charge of the work. In addition to regular members of the faculty prominent teachers from other universities and from the public schools give courses.

For Whom Intended.—The summer quarter affords special opportunities for the following classes of persons:

1. Regular students who wish to take their vacation during some other quarter, who have work to make up, or who, by attending the four quarters each year, wish to complete the college course in three years.

2. College and university graduates who wish to specialize in some particular field or to work for advanced degrees.

3. 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.

4. Superintendents and principals who wish to acquaint themselves with recent progress in education or to study special problems.

5. High school teachers who wish to advance in their special lines of work.

6. Supervisors and teachers of music, domestic science, drawing and other special fields of work, who find many courses suited to their needs.

7. School teachers who wish to work toward college degrees.

8. 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.


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 1929 may be completed on or before Saturday, June 15, at 4:30 p.m. Students expecting to be in attendance during the last term only may register on or before Wednesday, July 24, at 4:30 p.m. Students should go first to Education
Hall, where they will be directed as to the proper order of procedure in registration. Students living outside of Seattle may, with the consent of the Registrar, register by mail. Write for application form.

Students desiring to enroll in any college or school of the University will be directed by the registrar to the registration officers of the respective divisions for assistance in the election of studies.

Admission.—The courses of the summer quarter are open to all persons eligible for admission to the University as either regular, unmatriculated, transient, or special students. As far as possible, all credentials for prospective students and applications for admission as unmatriculated, transient, or special students should be in the hands of the Registrar before the opening of the session.

Credits.—Students desiring university credit will be required to pass examinations during the closing week of each term.

Amount of Work Registered For.—No student shall be registered for less than 12 hours nor more than 16 hours except by consent of his dean. With the consent of his dean a junior or senior whose previous scholastic record has been exceptionally good may be registered for a maximum of 10 hours for either term, or 18 hours for the entire quarter.

Persons expecting to be candidates for any degree or the normal diploma at the close of the quarter, should make application through the registrar on registration at the beginning of the session.

Fees.—The regular tuition fee of twenty-five dollars ($25) is required of all students, and admits to all the privileges of the summer quarter, except certain laboratory courses, the Law School, and special music courses requiring individual instruction. (See the statements of these courses for the special fees.) No reduction of fees will be made because of late registration or early withdrawal. Open lectures are free to all students regularly registered in the summer quarter and to the public.

Master's Degrees Through Summer Quarter.—At each succeeding summer quarter a large number of graduate students are in attendance. Last summer about a third of the whole number of attendants were graduate students. Many were planning definitely to apply their work toward higher degrees. The University will accept 36 credits earned during at least three summer quarters as a fulfillment of the year of required residence.

Home Study Courses.—The University has established home study courses in many departments. These will be of special advantage to students who have been in attendance at summer quarters and who wish to go forward to the bachelor's or the advanced degrees. The correspondence work can be advantageously planned as a continuation of the regular summer quarter. For detailed information concerning correspondence courses communicate with the Extension Service.

Education.—The summer quarter and the School of Education stand in very close relations to each other. Those who plan to obtain a degree, or a normal diploma, through the School of Education can accomplish much in summer quarters.

Business Administration.—An interesting curriculum of business courses is offered in the summer quarter for students who contemplate going into business. These courses are in the fields of Accounting, Economics, Finance, Foreign Trade, Labor, Management, Marketing, and Transportation. Teachers of commercial subjects will also find courses of special importance in preparation for their work.

For bulletin of the summer quarter address the publications editor, University of Washington. For other information address Henry A. Burd, Director of the Summer Quarter.
The Puget Sound Biological Station is near Friday Harbor, Washington, the county seat of San Juan county. The population of the town is approximately 400. It is between Bellingham and Victoria, 30 miles from the former and 20 from the latter, in a direct line. The Station site is about a mile from the town by water, and about two miles by land. The town contains a bank, drug store, butcher shop, bakery, hardware store, garage, and a number of grocery and other stores; so one can make ordinary purchases there.

San Juan county consists of an archipelago of something like 100 islands, separated by channels cut by glacial action. The northern islands of the county are composed of sandstone, comparatively easily eroded, and wearing into potholes. In the sandstone are occasional beds of fossils, notably on the Sucia Islands. On Waldron Island and the Sucia islands the sandstone was formerly cut for paving blocks for city streets.

Some of the islands are partly limestone, notably the north end of San Juan and the west side of Orcas. The largest lime works in Washington is at Roche Harbor, at the northwest corner of San Juan Island. However, comparatively little of the shore line of the archipelago is limestone.

Most of the islands are composed of metamorphic rock, which is very resistant to weathering and therefore changes very little. This is one of the reasons for the remarkable wealth of fauna and flora. Here and there are beaches of glacial material, or 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 between 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 100 x 20 miles, and the spring tides are about twelve feet. The channels in the Friday Harbor region are the chief points of entrance and escape for this immense volume of water. Thus the rocky points are swept clean of erosion deposits, the water is constantly aerated and changed, and a good habitat for water forms is insured. Those who have been at the Station have again and again attested to the abundance of marine life. A 12-foot tide exposes a wide beach, and gives excellent opportunity for the study of shore life.

Grounds and Buildings.—The site consists of 485 acres north of the town. Fresh water is piped in, and salt water is pumped from the sea. The laboratories are only a few yards from high tide. Four laboratories, about 24 x 56 feet, are completed. These are built of cement, hollow tile, plaster, and roofing tile. They are permanent and practically fireproof. A permanent stockroom has been completed during the past year. A kitchen and dining room, permanent in structure, accommodating 200, was built in 1924. The dining room also serves as a library.

Stockroom.—Compound microscopes of simple make are supplied for class use from the University of Washington. Certain ordinary glassware, containers, and preservatives may be secured at the stockroom. It is the aim to have in the stockroom the things ordinarily called for. Unusual things cannot be supplied. Those wishing special apparatus should write to the director. Rowboats are on hand for general use. It is best for research workers to bring their own microscopes. Instructors, assistants and students alike are charged with whatever they draw out of the stockroom.

The Station owns its own trawling boat, the gift of Robert Moran, of Rosario, Washington.
Puget Sound Biological Station

GENERAL INFORMATION

Lectures.—General lectures by the station staff or by visitors are given as the occasion arises.

Registration.—Experience has shown that it is wiser to register for one University course only, and all work is planned on that basis. Advanced students have found it profitable to begin some line of investigation in the same field in which they are carrying a course. All registration is at the station.

Credit.—Students giving their whole time to the work may earn 13 credits in 9 weeks. All University credit is recorded in the Station books in per cent; 70 per cent is the minimum for passing. Credits may be transferred directly from the Station books.

Expense.—The first three items are for the whole term or any considerable part thereof:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition fee (Normal Courses $15.00)</td>
<td>$20.00</td>
</tr>
<tr>
<td>General laboratory fee</td>
<td>5.00</td>
</tr>
<tr>
<td>Tent, two or more per tent, each</td>
<td>6.50</td>
</tr>
<tr>
<td>Board, $5.50 per week in advance</td>
<td>49.50</td>
</tr>
<tr>
<td>Stockroom, breakages, etc., (estimate)</td>
<td>3.00</td>
</tr>
<tr>
<td>Books (estimate)</td>
<td>2.00</td>
</tr>
<tr>
<td>Incidentals (estimate)</td>
<td>5.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$91.00</strong></td>
</tr>
</tbody>
</table>

The tuition goes toward paying the running expenses; the laboratory fee is for the maintenance of the equipment, not for stockroom breakages and losses.

For persons occupying the research rooms the total Station fee is $50, covering tuition and laboratory fees.

The tents are mostly 10 x 12 feet, on board platforms with three-foot board wall, making the lowest part about five feet. Included in the rent are bed springs or cots, mattresses, camp chair, bucket, wash basin, and tumblers. During the time before and after the session the rental is $1 a week, and the general fee is $1 per week. Kerosene stoves may be rented for $2.50 for the season. Bedclothes and pillows are not furnished, but they may be bought at the village. Persons coming to the Station should bring a sufficient supply of bedding for cold nights. A deposit of $6.50 reserves half a tent for the 9 weeks. The tent sites are not equally desirable; and sometimes the demand exceeds the supply, but there has always been room in the village.

The combination living room, library and dining hall is 35 x 82 feet, with two alcoves for books, and seats 200 at meals. The floor is maple. Connected are kitchen and baths with cemented floors. The dining service is managed by the University of Washington Commons.

Library.—The library contains about 1500 volumes, of which about 250 are bound volumes of reprints. A limited number of books are shipped to the Station every summer from the University of Washington.

For bulletin of the Puget Sound Biological Station address the publications editor, University of Washington. For other information address T. C. Frye, Director of the Puget Sound Biological Station, University of Washington, Seattle.
THE UNIVERSITY EXTENSION SERVICE

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) .......... President of the University
Thomson, David, B.A. (Toronto) ........................................ Dean of Faculties
Fudelsford, Frederick Morgan, Ph.D. (Yale) ......... Assistant Dean of Faculties
Smith, Harry Edwin, Ph.D. (Cornell) ........... Acting Director of the Extension Service

THE FACULTY, 1928-1929

The Extension faculty is composed of members of the general faculty who give extension courses and of the following instructors on the extension staff:

Gillette, Alletta Maria, M.A. (Washington) .......... Instructor in English
Dvornik, H. Dealy, Ph.D. (Brown) .................. Associate in Education
Henderson, W. B. ..................................... Associate in Business Administration
Farwell, Raymond F., M.A. (Washington) .......... Associate in Business Administration
Crockett, Mildred, M.A. (Washington) .............. Associate in English

GENERAL STATEMENT

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 eighteen 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 1928-1929 the following activities:

1. Evening Campus Classes
2. Off Campus Classes (Seattle, Everett, Tacoma)
3. Home Study
4. Graduate Medical Lectures
5. Graduate Nurses' Institute
6. Firland School for Nurses

About four hundred 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 who desire to pursue advanced study.

UNIVERSITY CREDIT

Most of the courses at present offered by correspondence may be taken by properly qualified students for credits toward a university degree. Applicants for enrollment wishing to take courses for credit should send their credentials for entrance to the University, with their application, if these credentials are not already on file with the Registrar of the University. Credit work is of course subject to all rules and regulations of the University that are applicable. The work must be thorough, must show creditable grade and must be completed within a reasonable time, which is estimated to be not more than one year for five credit courses and proportionally less for shorter courses.

These qualifications are clearly stated, so that there may be no disappointment from expectations that cannot be fulfilled of an easy road to a degree. Home study and evening classes are not such a road. The work 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 scholarship, the pleasure that may be had from this mode of using one's time, and the widening of the horizon of one's mind.
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. But in the senior year at least 36 of the 45 credits must be earned in residence. 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, or if the student is compelled to drop the course by conditions beyond his control. Enrollment constitutes an agreement on the part of the student to complete the course and he must take the responsibility for any failure on his part to do it.

Fees are based upon a uniform charge of $4 per credit hour. Extension courses cost, therefore: $8 for a two-hour course; $12 for a three-hour course; $16 for a four-hour course; $20 for a five-hour course.

HOME STUDY COURSES

The number and subjects of courses offered for Home Study vary from time to time. There are three hundred courses in nearly ninety subjects now organized. Present plans call for the development of the Home Study curricula to a total of more than three hundred fifty courses. Many courses have been offered for several years; others are entirely new. All have been adjusted to the special needs of Home Study students.

Home Study Courses of Instruction.—Anthropology, astronomy, botany, chemistry, classical languages and literature, dramatic art, economics and business administration, education, engineering, English language and literature, geology, Germanic languages and literature, history, home economics, hygiene of maternity and infancy, journalism, mathematics, music, navigation, nursing, painting, sculpture and design, philosophy, political science, psychology, Romanic languages and literature, Scandinavian languages and literature, sociology, zoology.

The University reserves the right to change this list without notice. Faculty changes, the publication of new textbooks, changes in the material to be emphasized may compel the withdrawal or shifting of courses. It is planned to keep the list of courses revised and as nearly permanent as circumstances warrant.

GRADUATE MEDICAL LECTURES

In cooperation with the Washington State Medical Society and the King County Medical Society, the twelfth Graduate Medical Lectures were
held July 16 to 20 inclusive, 1928. The lecturers were Frank H. Lahey, Harvard University; James B. Herrick, Rush Medical College; J. Whitridge Williams, Johns Hopkins; Andrew C. Ivy, Northwestern Medical School; and John Martin Wheeler, University and Bellevue Hospital Medical College.

**FIRLAND COURSE IN PUBLIC HEALTH NURSING**

The University of Washington Department of Nursing Education, through the Extension Service, offers a course in public health nursing to graduate nurses at Firland Sanatorium. A two-year curriculum covering 22 credits of advanced University work is offered.

**GRADUATE NURSES' INSTITUTE**

In cooperation with the Washington State Graduate Nurses' Association, the Washington League of Nursing Education and the State Public Health Nurses' Organization, the University of Washington Department of Nursing Education through the Extension Service conducted the Fifth Graduate Nurses' Institute, July 23 to 28, inclusive. The faculty consisted of Miss Annie W. Goodrich, Dean Yale School of Nursing, New Haven, Conn.; Miss Mary Roberts, New York City; and Philip Jacobs, New York City.

**HYGIENE OF MATERNITY AND INFANCY**

The University Extension Service cooperates with the Washington State Department of Health, Division of Child Hygiene, and the Children's Bureau of the United States Department of Labor, in conducting a course in the Hygiene of Maternity and Infancy. This is a home study course in which more than 120 mothers enrolled during the year 1927-1928. This course does not give University credit and there is no fee for enrollment.
All official publications of the University of Washington are issued under the direction of the publications editor.

The publications of the University consist of the University of Washington Publications, the publications of the Engineering Experiment Station, the Puget Sound Biological Station Series, and the University of Washington Bulletin. For a detailed list of these publications, address the office of publications.

The University of Washington Publications are issued in separate monographs and volumes, and contain the results of research work in various departments of the University. They include the following series: Anthropology, Fisheries, Geology, Language and Literature, Mathematics, and The Social Sciences. These publications are offered in exchange for similar publications issued by universities, learned institutions and societies, and libraries. All matter sent in exchange should be addressed to the University Library. Inquiries regarding purchase of these publications should be addressed to the publications editor.

The Publications of the Engineering Experiment Station include bulletins of information and investigation concerning engineering and scientific problems. Requests for these publications should be made to the Director of the Engineering Experiment Station, University of Washington.

The Puget Sound Biological Station Bulletins are based on the investigational work carried on at the Friday Harbor Station, and are issued at irregular intervals during the year. Orders for these monographs should be sent to the Director of the Puget Sound Biological Station, University of Washington.

The University of Washington Bulletin, General Series, includes the general catalogue and special announcements of each school and college, Summer Quarter bulletin, Extension Service bulletin, and the University Directory, each of which is issued annually. The general catalogue is limited to exchange purposes; the circulars of information are sent free on application to the Registrar of the University.

The Washington Historical Quarterly is issued at the University under the auspices of the Washington University State Historical Society, and is devoted to the history of the Pacific Northwest. For information, address the business manager, Washington Historical Quarterly, Library, University of Washington.

The University of Washington Forest Club Quarterly is published by the members of the Forest Club. For numbers of the Quarterly, address College of Forestry, University of Washington.

The Murrelet, bulletin of the Pacific Northwest Bird and Mammal Society, is published by the Washington State Museum every four months. The bulletin deals directly with the bird and mammal life of the Pacific Northwest. Address, Washington State Museum, University of Washington.
A BIBLIOGRAPHY OF FACULTY PUBLICATIONS
April 1, 1927 to April 1, 1928

ASTRONOMY

ZANSTRA, HERMAN


BACTERIOLOGY

HOFFSTADT, RACHEL E.


BOTANY

HOTSON, J. W.

A New Species of Exobasidium.—Phytopathology 17:207-216. (No. 4, April). 1927.

RIGG, GEORGE B.


Dissolved Gases in the Waters of Some Puget Sound Bogs (with T. G. Thompson, J. R. Lorah, and K. T. Williams).—Botanical Gazette, Vol. 84, pp. 264-278. 1927.

CHEMISTRY

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DEUSCHELIN, W. L.


DEHN, WILLIAM M.

The Sand Test as Applied to High Explosives and Their Mixtures (with A. A. Wagner).—Army Ordnance, 8, pp. 35-38. July, 1927.

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A Chemical Study of the Waters of Argyle Lagoon, I (with Phoebe Blalock).—Publications of the Puget Sound Biological Station, No. 5, pp. 341-354. 1928.

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STONE, EDWARD NOBLE

ECONOMICS AND BUSINESS ADMINISTRATION

BURD, HENRY A.


DAKAN, CARL

PRESTON, H. H.
BOLTON, FREDERICK E.


DRAPER, EDGAR M.

FOSTER, FRANK K.

HUGHES, CECIL L.


JESSUP, JOHN H.

RANDOLPH, EDGAR D.
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MILLER, A. L.

WILCOX, E. R.

Electrical Engineering

LOEW, E. A.

MAGNUSSON, C. E.


Mechanical Engineering

WILSON, GEORGE S.

WINSLOW, A. M.

Shop Engineering

SCHALLER, GILBERT S.

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BENHAM, ALLEN R.


HUGHES, GLENN

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GRONDAL, BROR L.

KIRKLAND, BURT P.

WINKENWERDER, HUGO
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FULLER, RICHARD E.
GOODSPEED, G. E.

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CREER, L. H.

DOBIE, EDITH

LUCAS, HENRY S.

MEANY, EDMOND S.
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LAW

AYER, LESLIE J.


LIBERAL ARTS

CORY, HERBERT ELLSWORTH


LIBRARY

SMITH, CHARLES W.

University of Washington

TUCKER, LENA LUCILLE


MATHEMATICS

BALLANTINE, J. P.


CARPENTER, A. F.


GAVETT, G. IRVING


MORITZ, R. E.


MINING

DANIELS, JOSEPH


WILSON, HEWITT


Music

VENINO, A. F.

Nursing

SOULE, ELIZABETH S.
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GOODRICH, FOREST J.
University of Washington


LANGENHAN, H. A.


LYNN, E. V.


PHILOSOPHY

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PHYSICAL EDUCATION

GLOVER, HARRIET F.

PHYSICS

MCCURDY, W. H.

Bibliography of Faculty Publications

POLITICAL SCIENCE

MARTIN, CHARLES E.


PSYCHOLOGY

GUNDLACH, RALPH


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GUBERLET, JOHN E.


HATCH, MELVILLE H.


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SMITH, E. VICTOR

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DEGREES
CONFERRED JUNE 13, 1927

BACHELOR'S DEGREES

COLLEGE OF LIBERAL ARTS
BACHELOR OF ARTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree (Honors)</th>
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<tbody>
<tr>
<td>Ackley, Elene</td>
<td>(cum laude)</td>
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<td>Ailshie, William</td>
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<td>Aitchison, Helen</td>
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<td>Allen, Capitola</td>
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<td>Altermott, Alexander</td>
<td>Jr. D</td>
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<td>(Sister Mary Josephine) a</td>
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<td>Furgeson, Carey</td>
<td>Don</td>
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</table>

The persons whose names are followed by the superior letters A, D, M received their degrees in the quarters of 1926-1927 ending in August, December and March respectively; all others in June, 1927.

(378)
Gallagher, Margaret Eileen D
Gayler, Anne Roberts (cum laude)
George, Mary Martha
Gerriets, Bertha Lucy
Getchell, Asher Frederick
Gilmore, Robert Henry
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Gorrell, Winifred Genevieve
Goss, Erwin Lyle D
Grace, Elizabeth Buchanan
Grafft, Clark Francis
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Hackett, Clara Allison
Hagam, Irene A. D
Hall, Ruth Virginia
Hanmun, Margaret Lucinda (cum laude)
Hansen, Helen A.
Harsch, Alfred Elmer A
Hart, Harold Howard
Higgins, Frank L.
Hine, Marie
Hirai, Takanaga
Hitchman, Betty Josephine
Hoag, Alberta
Hoage, Ruth Elnora
Hoffman, Dorothy Sylvia A
Hoffman, Marian
Holmes, John H.
Horsfall, Frank Lappin Jr.
Hugh, Edyth Borthwick
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Hurely, James Daniel
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Ireland, Gertrude Goodrich
Jackson, Virginia Winston
Jacobson, Samuel Sidney
Jamison, Marguerite
Jenner, Evalene
Jensen, Margaret Irene
Johnson, Milton S. A
Johnson, Raymond Alfred
Jordan, Andrew A. M
Judd, Marie

Kennedy, Elizabeth (cum laude)
Kerr, John Leeds A

Kimball, William Briggs, Jr.
King, James G. A
King, Jean Paul D
King, Robert Maxwell
Klose, Hildegard D
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Koert, Peter A

Larkin, Lucretia Starr M
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Leamon, D. Thomas M
Learned, Allen Munford
Leathers, Arthur LeRay M
Leatherwood, William F. A
Lee, Jean Elizabeth D
Lermond, Helen A.
Leslie, Anna
Lind, Anna Regina (magna cum laude)

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Lonheim, Alton Marvin
Lord, Helen Elizabeth
Loving, Marianne M
Lundell, Sige Aurora Marie D
Lynch, Thomas Charles A

McAllister, Geraldine Marie D
McCarthy, Margaret Eleanor A
McDonnell, Audrey
McEntyre, Alice Marie
McFarland, Mary
McPee, Louise Catherine M
McKenzie, Anne Elizabeth
McLaren, Marian Esther (cum laude)

McLean, Martin Jr. M
McNary, Catherine
Mahone, Lena Louise (cum laude)
Mantor, George C.
Mar, Shu Tong Reginald
Markewitz, Ernest D
Martin, Glenn Chudley
Matthews, Gwlad A
Maxam, Elsie A
Meyers, Liv Alice
Miller, Grace Whiting
Miller, Vivian Rowena (cum laude)
Mills, Mabel S.
Mitchell, Webster Lee
Mohler, Harry A. M
Molstad, Marie Schober A
Montague, Frances M
Montesk i Gertrude Veronica (cum laude)

Montgomery, Anna H.
Moran, Christine Louise
Morgan, Lucile
Morrill, Helen (cum laude)
Mowat, Helen Frances
Murton, M. Ethelwynne

Nanney, Albert M.A
Nardin, Alphonse Charles
Nash, L. Catherine
(Sister Mary Edwardine)A
Nelson, Evelyn Ida
Nesalhouse, Gertrude Marie
(Sister Mary Ambrosia)
Nessly, Dorothy Elizabeth
Newberry, Amelia Ella
Newton, May E.
Nichols, Amelie Katherine (cum laude)
Niesen, Heilene J.
Nims, Frederick Dwight, Jr.
Noftsginer, Edith Jeannep
Noren, Gladys MarthaD
Norton, Frances Ramona

Okimura, Nobuo
Oldfield, Alice A. Dominica
(Sister Mary Dolores)p
O'Leary, Helen Kathleen
Olin, Charles Herbert
Olney, Dorothy Sue
Ottenheimer, Albert Martyn
(magna cum laude)

Partee, Raymond AlonzoM
Peacock, Marion
Peairs, Goldia LucilleA
Pearson, Merrill June
Pease, Robert Odellp
Pellegrini, Angelo M.
Pellegrini, Rosalie Leila (magna
cum laude)
Peltret, Edward Hinch
Perring, Norman Claud (magna
cum laude)
Peters, Evan R.
Peterson, AbbieA
Pfeiffer, June Louise
Phelps, Saralette
Philpot, PaulineA
Pierce, Florence Barbara
Pineo, Eleanor W.M
Porep, Helen Caroline
Potts, Theresa AnnA
(Sister Mary Lourdina)
Predmore, Alice Elizabeth
Raber, Ruth Marion
Rader, Katherine Ellis (magna
cum laude)
Rasmussen, Evangeline
Refling, Norman (magna
cum laude)
Remy, Frances Louise

Richards, Thelma Arlene
Rickerts, Helen Louise
Riss, Arthur Henryp
Robertson, Dana A.
Robson, James Wesley (magna
cum laude)
Roe, Edith Muriel
Roose, Clarence N.
Rossman, Kathryn Jeanette
Rovig, Helen L.
Royster, Helen Oneill
Russell, Alice Pearl

Sandbrink, Alice Margaret
Savery, Barnett
Schaeffer, Claude EverettM
Schenk, Rudolph Edward
Scheuerman, Ruby Irene
Schlarb, Elizabeth
Scott, Harlan McKibbanM
Seifert, Helen Louise
Sensenig, Kathryn Viola
Shaw, Virgil Farrar
Sheldon, Dorothy E.A
Sheller, Dorothy Enid
Shephard, Kathryn MaryA
Sherman, Winifred C.
Showell, Gwendoline
Skansie, Clementine Agatha
Slipper, Marianne Littlewood
Smith, Leah Ina Littlefield
Soule, Elizabeth SterlingA
Sprinkle, Frances Margaret
Stafford, John B.
Stalberg, Vera C.
Stanley, Evelyn MontanaM
Stark, Eugene Edwardp
Stenberg, Betsy PaulineA
Stevenson, Harold J.
Stewart, Florence B.
Stone, Ethel Viola
Strecker, Burr Weil
Sutherland, Alice WoodA
Sutherland, William James
Swanson, Myrtle LeneaA
Sweedine, Elmer

Takahashi, Yoshiomii
Tarleton, Julie Marjorie
Taylor, Serena FisherM
Thompsen, Dorothy Elizabethp
Thompson, Margaret J.M (magna;
cum laude)
Thorn, Alfred Amel
Too, Che Pinp
Townsend, Lorita Marguerite
Travis, Virginia L. (cum laude)
Tsao, Shou ChangM
Degrees Conferred 1927

Ude, William Wilkinson (magna cum laude)
Ura, Jutarø
Urquhart, Irene

Van Horn, Margaret

Wachter, Mary Virginia
Walck, Ida Rozeelee
Weir, Mary Frances
Wen, Chung Sing

Whalley, Alice Maude
White, Helen Katherine
Wilcox, Clairese J.
Wilson, Mary Helen
Wilson, Wendell Thomas
Wong, Wah-Chin
Woodward, Sibylla Ann
Wright, Harriet Isabelle (cum laude)

Wright, Quintin Bertram
Youle, Gretchen
Young, George Wendell

College of Science

Bachelor of Science

Appelgate, Kenneth Wood
Austin, Katharine Thornton
Bigley, John
Bradshaw, Grace Elizabeth
Butt, Richard Van Cleve
Byers, John Raoul
Cartwright, Edward D.
Cook, Richard Hiram
Cooper, Elizabeth Cole
Craven, Dorothy
Cunningham, Marvel Aileen
Dodge, Elva Mabel
Durose, Fred Wesson
Elliott, Richard Conn
Ferguson, Lois Genevieve
Foley, Maurice P.
Grant, Wells Harold
Griffiths, Francis P.
Haase, Edna Luella
Hahn, Olive Margaret
Harris, Leland Stanford
Hitchings, George Herbert (cum laude)
Knapton, Florence Myrtle (cum laude)
Lowrie, Ruth Almira
MacDonald, Sarah Isabel
Milliman, Wendell
Muir, Mary
Norie, Esther Edwards
Peach, Helen Agnes
Ramsay, Ruth Rhodes
Ridout, E. Lucile
Robertson, Angeline Turinsky
Roe, Howard Earl
Schaffer, Norwood Korter (cum laude)
Scott, Frances Isabel
Stager, Helen Elizabeth
Stamm, Claus Henry
Storey, Guinevere
Sturgis, Isabel Andre
Templeton, Frederic E.
Thompson, Earl G.
Thompson L. Katherine
Tryggvi, Carl
Walker, Norman Eugene
Ward, William Eugene
Weaver, William H. Jr.
Weinstein, Nat
Whelan, Elizabeth McDowell
Yoshioka, Jesse Jisaburo

Bachelor of Science in Anatomy

Epton, John Wiltsie
Kimple, William A.

Bachelor of Science in Chemistry

Artus, George Lawrence
Kao, Tsi Yu
Lee, Yuen Tsaan
Mills, Paul A.
Pollock, Robert
University of Washington

BACHELOR OF SCIENCE IN GEOLOGY

Flagler, Charles W. Weymouth, Andrew Allen

BACHELOR OF SCIENCE IN HOME ECONOMICS

Atkins, Edith May
Bishop, Helen Atkinson
Carssow, Elsie L.
Cook, Helene
Davidson, Barbara India
Driscoll, Anna Marie
Green, Marvel Josephine
Hunt, Beatrice Irene
Kamb, Leona
King, Eleanor Virginia
Larson, Nettie Rose
Layton, Mildred Glenrose
Lucas, Marian Matilda
Mcasey, Dollie
McCormick, Grace
Manthey, Isabel Wilhelmina
Marshall, Marion Alice
Morgan, Ruth Eleanor
O'Keefe, Baleska Jessie
Peterson, Amy Kathryn
Stewart, Dorothy Cecelia
Stover, Leona Hope
Sundquist, Ida Elvira
Talbott, Mary Morris
Thorne, Thelma May
Walsh, Mary Louise
Ware, Jeannette Huntington
White, Myrtis

BACHELOR OF SCIENCE IN MATHEMATICS

Libby, Annie E.

BACHELOR OF SCIENCE IN MILITARY SCIENCE

Hicker, Eugene Stayton
Young, Gordon See

BACHELOR OF SCIENCE IN NURSING

Listmann, Grace Xavier
McCabe, Anne Rondeau

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Beck, Jean
Chase, Jennie Alberta
Coats, Florence Elizabeth
Crane, Alice Elizabeth
Duncan, Margaret M.
George, Dorothy Adella
Hahn, Genevieve K.
Jones, Ione Louise
Maydahl, Bergete Olga
Pease, Estelle Elizabeth
Rosen, Johanna Josephine
Shinabargar, Jean Doreen
Stephens, Irene N.
Wallace, Jean Margaret
Waters, Ellen Harriet
DEGREES CONFERRED 1927

BACHELOR OF SCIENCE IN ZOOLOGY

Cole, Clyde Arthur
Godsell, Julia Elizabeth
Johnson, Arthur Franklin
Limbach, Dorothy Helen

Scott, Hilda Isabelle
Sey, Martha Coral
Sherrr, Helen More
Van Tilborg, Laurence Douglas

SCHOOL OF EDUCATION
BACHELOR OF ARTS IN EDUCATION

Aber, James Finis (magna cum laude)
Alexander, Frank E.
Allen, Lois Maxine
Anderson, Ida Belle
Andrus, Dora Eva
Armann, Edith Elizabeth
Ashley, Ethel Marie
Austin, Frances M.

Baes, Engla Bernice
Baker, Rena Rose
Bale, Genevieve Georgiana
Barker, Loris T. (magna cum laude)

Barnwell, Cecile K.
Bird, Emma Marie
Black, Alberta Frances
Bloom, Edward Franklin
Bower, Eleanor Barrows
Bradley, Florence Doris
Branshaw, Francis (Sister Mary Veronica)
Brewer, Vincent Robert (magna cum laude)

Bromley, Mercy Gove
Brown, Florence Louise
Brown, Kathryn Louise
Broz, Maybelle
Bruff, Ettie Julia
Buli, Mabel Josephine
Burnett, Alta Hazel
Burns, Jessie Elizabeth
Busch, Vera
Butler, Dorothy Lucille

Carlson, Mable
Chapman, Merna Louise
Christy, Dagmar Carola
Clancy, Margaret
Clevenger, Ruby Madge
Conant, Estella Louise
Cone, Dwight Harthan
Connolly, B. Genevieve
Cowden, Neva La Rue
Crosby, Clyde Eugenia Relf (cum laude)
Crouter, Carrie Maud
Curry, Eva Philip

Deasy, Catherine Marie (cum laude)
Dick, Bessie M.
Dickson, Irene Ysobel
Donahue, Alfred Bernard
Dougherty, Ruth Millicent
Duve, Dora
Dwire, Gertrude

Eidal, Elmer Oliver
Fitzsimmons, Margaret
Fraser, Edna Mary

Garrett, Elton Mck.
Gilbertson, Alma Christine
Gilleland, Mary Rynd
Gingrich, Esther Marie
Gorton, Samuel Hiram
Grass, Lorette B.
Gross, Katherine J.
Grove, Leon Conner (magna cum laude)
Guay, Emma Collard (Sister Mary Dominic)
Guang, Pedro Garaza
Guillen, Filemon C.

Hall, George Mason
Hamilton, Bernice M.
Handy, Virginia Showwalter
Hansen, Herbert
Hatley, Porter J.
Haug, John Meyer
Hawk, Frank H.
Hazen, Oliver Miner (cum laude)
Heffernen, Agnes (Sister Mary Austin)
Heise, Irvin F.
Hemphill, Elizabeth
Henderson, Frank Downey
Hesseltine, Lee Frazelle
Hodge, James Wesley
Hurd, May

Javato, Fermin
Jennings, Tillie (Sister Mary Floretta)
Jensen, Thomas Martin
Johnston, Ida Foss
University of Washington

Jones, Estelle E.D
Jones, Wilfred Roscoe
Kautz, Bernice Q.
Kemper, Phyllis Janet
Kimball, Stanley Genlis
Knowlton, Charlotte Jane
Lambert, Helen Marie
Lawen, Amalia Regina
Lowman, James Guy
Lundy, Oliver G.
McElvain, Ernest Emerson
McIntosh, Margery Philelia
McKinnell, Eloise McPherson
McLaughlin, Helen York
McLennan, Elfreda May (magna cum laude)
Mantei, Vega Patterson
Mattilla, Walter Oscar
Mead, Ida Christine
Milam, Carey Harris
Milford, Mersel
Myers, Doris Maurine
Neal, Russell Leroy
Ness, Sever Walter
Neylon, Mary Teresa
Olsen, Bergliot Nancy
Olson, Olaf Ebert
Parker, Agnes Frances
Pearce, Eunice Celie
Percival, Dorothy Louise
Peterson, Edith N.
Pettigrew, Anna Thompson
Pettingw, Elizabeth
Philippi, Herbert
Pugh, Venetia Elizabeth
Rathbun, Anna Louise
Raum, Dorothy
Reed, Ralph Joseph
Reeder, Verna Terry (magna cum laude)
Renshaw, Mildred Belle
Reyes, Benigno T.
Rhodes, Helen Neilson
Rollinger, Dorothy
(Roos, Lemuel
Rowe, Abbie Elizabeth
Rude, Hazel Irene
Ruidi, Philip F.
Sandall, Loretta M.
Schenken, Robert Crocker
Scoones, Phyllis Elizabeth
Selde, Alice Frances (cum laude)
Sell, Myrtle May
Sholderer, Marguerite Dorothy
Simpson, Donald
Sims, Bertha May
Sjaastad, Anna Olivia
Stone, Lucia May
Stoner, Juanita June
Straight, Robert
Sutherland, Ethel Emogene (cum laude)
Swanson, Dorothy Miller
Taylor, Chester Alban
Taylor, William David Jr.
Thompson, Ethel Marion
Thrun, Beatrice Dorothy
Townsend, Florence Elizabeth (cum laude)
Traffy, Ralph Paul
Vandivort, Mary Harriett
Varney, Adah May
Walsh, Grace Ann
(Sister Mary Michael)
Watkins, Minnie Jane
Weisman, Frances (magna cum laude)
Weisman, Sara Eve (magna cum laude)
Westall, Albert James
Wood, Hazel Frances
Wright, Parke A.
Wynn, Thomas Delaney
Wynstra, Stanley S.
Wynstra, Walter Scott

BACHELOR OF SCIENCE IN EDUCATION

Aust, Ruth
Cavanaugh, Esmer Dorothy
Church, Ruth Margaret
Coon, Amy Grace
Dodson, Jesse Moody
Erlanger, Katheryne Brown
Flock, Eunice Verna
Johnson, Berkley G.
Degrees Conferred 1927

Johnson, Carl Gustaf
Larson, Olga Madeline
McFaddin, Helen Jane
Miller, Raymond Paul
Murray, Jane Frances
Rogers, Catherine Amy
Schrader, Neva L.
Smull, Victor Albion
Sunnell, Bertha Alexandria
Suomela, George Edward
Tucker, Roy Francis
Weyermann, Oscar Ferdinand
Whitmore, Pearle R.
Wolfe, Dael Lee

College of Fine Arts
Bachelor of Arts

DeMary, Dorothy Putnam
Harden, Mabel Zulema
Leach, Grace Barnett
McClure, Willard
McKay, Alice
Schumacher, Walter C.

Bachelor of Music

Betinger, Dawn Loueze
Boyker, Maxine Marie
Chandler, Berniece Claire
Crawford, Roberta Margaret
Dunn, Florence Steele
Edwards, Joseph O.
Gallinger, Edythe Myldred
Gaul, Leona Louise
Gerrish, Olive May
Hale, Eleanor Elizabeth
Hartman, Jeannette Wyse
Herman, Helen H.
Hinman, Isla
Hopkins, Eugenia Victoria
Howatt, Alice I.
Kane, Kathleen
Kane, Olive Cecelia
Kopika, Irja (cum laude)
Loken, Clarice Elizabeth
Lundkvist, Lyllis D.
McRae, Ruth Moore
Mackenzie, Clemwell Loraine Moses
Miller, Adelaide Lavina
Miller, Leonardeen
Moore, Vivien Monica
Mowry, Ellen Rachel
Nowatzki, Claire Hulda
Samzelius, Alpha L.
Sayre, Elinore Pearl
Secrest, Ruth Viola (cum laude)
Sisler, Dorothy Muriel
Strand, Sophie
Walsh, Helen Bernice
Whitner, Lois Elaine Bennett

Bachelor of Architecture

Becket, Welton David
Nagamine, Frank Nobuichi
Wurdeman, Walter Charles

Bachelor of Fine Arts

Adams, Susanna Catherine
Blackaller, Mary Louise
Brunner, Elma Margaret
Charlesworth, Ruth
Donaldson, Hallie
DuBois, Frances Georgene
Dun, Kwei
Eckrem, Dagrun Lillian
Ennis, Mercedes Elouise
Evans, Catherine
Fairchild, Inez Marcella
Hanks, Josephine Beatrice
Hinsdale, Helen L.
Leyman, Garnett Valentine
MacGowan, Clara
MacKinnon, Anabel Marian (cum laude)
Penington, Ruth Esther (cum laude)
Peters, Laura Beatrice
Rawson, Laura Beatrice
Schrock, Clarice Mazie
Schuman, Sara Hirsch
Sheets, Hilma Ilene
Smith, Hjordis Carloa
Strouse, Margaret Frances
Wayland, Elizabeth

BACHELOR OF ARTS IN DRAMATIC ART
Anderson, Margaret Galloway
Britton, Cathryn Margaret
Cutler, Bernice Acors (cum laude)
Fisher, Mary Alma (cum laude)
Frost, Leona King
Hecht, Ruth Elizabeth
Herod, Mignon
Kullberg, Julie Helen
Leitch, Marjorie Eleanor
McGuire, Grace A. Peppett
Riss, Eleanor Gross
Vaughan, Frances Clare

COLLEGE OF ENGINEERING
BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
Botsford, George Sherwood
Dailey, Manvel Clair
Fisher, Lloyd H.
Ford, Tirey Foster (magna cum laude)
Hansen, Ralph B.
Hoard, James Lynn (magna cum laude)
McAneny, John Maurice
Mansur, Howard Harry
Reed, Ronald Logan
Richford, M. A.
Sherrill, Harold Dudley
Swart, Gilbert H. (cum laude)
Tershin, John Alfred
Willson, Edward Arthur
Wood, Lewis Clarke

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Christy, Bruce Verner
Clayton, Walter Croft
Davidson, Edward Willoughby Jr.
Erickson, Archibald Milton
Gwinn, Ernest Sidney
Hitchings, Eben Godfrey
Martin, Albert Watson Jr.
Miley, John Donnell
More, David Thurber
Rhodes, Fred Harold Jr.
Rouner, Thomas J.
Smith, Richard Wilson
Stevens, George

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Alexeeff, Alexander V.
Anderson, Lloyd A.
Berge, Sigfred Frithjof
Brueggeman, William Charles
Case, Byron Avenant
Cochran, Stanley William
Crosby, Roy Henry (cum laude)
Ecker, Anthony Joseph
Falkovich, Oleg C.
Francis, Arthus D.
Goff, Earl Wilson
<table>
<thead>
<tr>
<th>Degrees Conferred 1927</th>
<th>387</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jenner, Melvin Alfred</td>
<td>Roscoe, Roland Theodore&lt;sup&gt;p&lt;/sup&gt;</td>
</tr>
<tr>
<td>Jensen, George G.&lt;sup&gt;x&lt;/sup&gt;</td>
<td>Scott, Herbert Jefferson</td>
</tr>
<tr>
<td>Karrer, Lawrence Edison (magna cum laude)</td>
<td>Scoville, Ray R.</td>
</tr>
<tr>
<td>Kennedy, Wesley Montrose</td>
<td>Shinoda, Akira</td>
</tr>
<tr>
<td>Kerns, Homer</td>
<td>Shiomo, Roy Yoshiyuki&lt;sup&gt;x&lt;/sup&gt;</td>
</tr>
<tr>
<td>Larsen, Lloyd&lt;sup&gt;p&lt;/sup&gt;</td>
<td>Snider, Floyd</td>
</tr>
<tr>
<td>Lowry, Lewis Reeder&lt;sup&gt;x&lt;/sup&gt;</td>
<td>Stewart, Phil Harold</td>
</tr>
<tr>
<td>McMullen, Robert B.&lt;sup&gt;p&lt;/sup&gt;</td>
<td>Thrailkill, William Lubrecht (magna cum laude)</td>
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<tr>
<td>Priebe, Lloyd Herman</td>
<td>Weil, Charles Frank</td>
</tr>
<tr>
<td>Ramm, John Bernard</td>
<td>Westby, George Newton</td>
</tr>
<tr>
<td></td>
<td>Wimmer, Lyle Graham</td>
</tr>
</tbody>
</table>

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**

| Dittemore, Wallace Chester | Hillman, George Kenneth |
| Eby, Roger I. (magna cum laude) | Jensen, J. Ebbe |
| Franks, Ernest | Konzo, Seichi (cum laude) |
| Hallett, John Louis | Personeus, Lewis Hill |
| Hansen, Carl Magnus | Ross, Bruce W. |
| Hendrickson, Harold Martin (magna cum laude) | |

**BACHELOR OF SCIENCE**

| Bryan, Collis Charles | Johnson, Melvin Ernest |
| Flodin, Carl Richard | Larkin, William Jackson |
| Flohr, Louis Carlos | Rasmussen, Charles Alfred<sup>p</sup> |
| Forcum, Redman Lewis<sup>x</sup> | Schlageter, Frederick C.<sup>p</sup> |
| Jacobsen, Philip Amund<sup>p</sup> | Smith, John Corson |
| Jeffery, Harold Baker | |

**COLLEGE OF MINES**

**BACHELOR OF SCIENCE IN MINING ENGINEERING**

| Finland, George Harold | Vincent, Will Pierre |

**BACHELOR OF SCIENCE IN GEOLOGY AND MINING**

| Barquist, William Swan | Palmer, Burton Elliott<sup>a</sup> |
| Johanson, Nels E.<sup>p</sup> | Wheeler, Raymond A. |

**COLLEGE OF FORESTRY**

**BACHELOR OF SCIENCE IN FORESTRY**

| Allen, Gordon Craig<sup>p</sup> | Covington, Duane M. |
| Anderson, Bernard A. | Heine, Henry Court Jr.<sup>a</sup> |
| Bode, Arthur Theodore | Holt, George A. |
| Bundy, Robert Egbert | Inskeep, Alonzo II. |
| Bunker, R. Stanley | |
University of Washington

Joseph, Henry Burton
Lindh, Nels Gustav
Moran, Wendell
Schmitz, Ferdinand Jr.
Scott, Myron Arthur
Shank, Jack O'Rourke
Simcoe, Philip Sumner

Svensen, Harold A.
Trowbridge, Kennard Shields
Walton, Leon Wendell
Walton, Peter Thomas
Zamuco y Torio, Gregorio

College of Fisheries
Bachelor of Science in Fisheries

Finlon, Arthur James
Freeman, Norman Lloyd
Goodwin, Thomas Kimball
Hanson Harry Albert

Loosanoff, Victor L.
Lucas, Clarence R.
Quast, Thomas
Townsend, James Reilly

College of Pharmacy
Graduate in Pharmacy

Barrett, Roy Irwin

Pharmaceutical Chemist

Abogadie, Maria Aytona
Ajax, Marjorie
Beck, Robert E.
Benveniste, Isaac E.
Burston, Ray Joseph
Castle Harold M.
Cruickshank, Bruce Wallace
Cruickshank, Kenneth
Davis, Milder A.
Doyle, Margaret Agnes
Evans, Clementine Claire
Fitzgerald, Elizabeth M.
Gedmin, Ludmila
Grant, Samuel Walker
Hayes, Margaret Mary
Hollomon, J. Paul
Jorgensen, Paul Simon

Koenig, John Frank
Levinson, Sol
Lewis, Charles H.
Marrsen, Carl Walter
Miller, Florence A.
Moseley, Evalyn Anita
Mowat, Lillian Augusta
Odegard, Thomas
Peha, Albert James
Richter, Leo Clemen
Schimke, Leo L.
Seidenfeld, Morton Alfred
Tobey, Lono Wilkinson
Werttemberger, Richard Edward
Wong, Violet

Bachelor of Science in Pharmacy

Abogadie, Marie Aytona
Clein, Lillian
Cruickshank, Kenneth
Evans, Clementine Claire (magna cum laude)

Moseley, Evalyn Anita
Reekie, Richard D.
Seidenfeld, Morton Alfred
Wong, Violet
Degrees Conferred 1927

College of Business Administration
Bachelor of Business Administration

Abbott, Robert C.
Anderson, Clarence Edward
Anderson, Edwin Leonard
Anderson, Logan
Andrews, Clarence A.
Arai, Thomas F.
Arnold, Harry Albert

Badgley, Charles Hanley
Bailey, Henry Ernest (magna cum laude)
Banker, Gordon Fisk
Barton, Howard Edmund
Bender, Edwin Brown
Benner, Lawrence Benjamin
Bowen, Edward Van
Boyer, Louis A.
Brewer, Ronald Kenneth
Burr, Wallace Melbourne
Byrnes, Robert Edward

Cameron, Harold William (cum laude)
Carlson, Ruth Lily Elenora
Carstens, Ernest Julius
Carver, Marion Esther
Charleston, Jack Lee
Charteris, James Miller
Christensen, Ferdinand A.
Chu, Tung Chi
Coffee, William Glennon
Corey, Elva Florence
Corlett, Donald Alexander
Crowley, George Joseph
Curry, Jerome J.

Daniels, Albert S.
Davison, William Ward
Dean, Helen Rose
Dickinson, George Leonard
Ditmars, Tracy Arthur
Dolan, R. Edwin
Dougherty, Ollie

Edris, Roy W.
Ellis, Overton Gentry Jr.
Evans, Irene

Farwell, Stanley Estes
Faulkner, Donald Ross
Fitzpatrick, Mary Margaret
Fleming, James Patrick
Foley, John Richard
Franklin, Charles Willson

French, Jesse Ira
Garred, Ward Kenneth
Gilbert, Harold Spencer
Gill, Kenneth Hugh
Glaze, Nina Muncy
Goon, John L.
Gorham, Harlan West
Greely, Gilbert Fillmore

Hale, Estle William
Hanley, John Joseph
Hanley, Myron Victor
Harris, John H. Jr.
Hayes, Elizabeth Georgina
Heaton, William Dean Jr.
Heer, Ralph Waldo
Helpfrey, Mary Frances
Hill, Arthur R.
Holden, Blanch L.

Isom, Max Dana
Johnson, Pauline
Jones, Stanley Ernest
Kaan, Yam Tsin
Kao, Chin-Chi
Kettenring, Elizabeth Eleanor
Kiehl, Clarence Lloyd
Kilgas, Carl A.
King, Waldo Theodore
Kirby, Cleo L.
Kirsch, John Bernard
Kling, Fridolf Carl (cum laude)

Landeen, Herbert Axel
Lea, William O.
Le Compte, Maurice
Leighton, Roy Sewall
Lemenager, Raymond
Levitin, Isaac
Lively, Philip M.

McKay, Herndon
Manning, Robert Sedwick (cum laude)
Mansfield, Charles Anton
Matlock, Charles Orin
Matthews, James B.
Meagher, Vivian Ambrose
Miescke, Paul Frederick
Miller, George Leonard
Miller, John Lyle
Mills, George Gordon
University of Washington

Montfort, Richard
Moseley, Robert Duncan
Nelson, Malcolm Edward
Nishimoto, James Yoshito
Oestreich, Roy
Orkney, R. Woolston Jr.
Otto, Robert Henry
Perkins, Melvin C.
Petersen, Hilmma Justine
Pierce, Burton Bowman
Pittack, Arthur Henry
Porsch, Rhynhart A.
Potter, Alden L.
Prentice, Dudley Russell
Richard, Lewis Grant
Reeves, James A.
Retzer, Lawrence E.
Richardson, Wallace Alton
Roach, Russel Albert
Ross, Frank L. (cum laude)
Russo, Samuel Joseph
Ryan, Benjamin F.
Ryan, Maurice Fraser
Schaefer, Oscar (cum laude)
Schonhard, George Maurice
Shidler, Harold
Shollenberger, John Wayne
Silva, Julio W.
Slawson, Charles Sanford
Sloan, Wayland Carey
Smetheram, Francis Edwin
Spaulding, Daniel Woodman
Stevens, Robert Ray
St. John, C. Harold
Stowall, Ralph John
Strain, Kenneth Brooks
Swanson, Clarence W.

Tang, Sik Pui
Tate, Wilbur Paul
Thomas, Jack Rees
Ulbrickson, Alvin Martin
Ushakoff, Demetry Demetrievitch
Vining, Maurice N.
Witham, Frederick Ray
Wong, James Mun Tim
Woodside, James Harvey
Wynn, George Evans
Ybojos, Marcelino Vista
Yoshioka, Fusako
Zimmerman, Ralph Coburn

SCHOOL OF LAW
BACHELOR OF LAWS

Arend, Harry O.
Bailey, Arthur E.
Berolski, Edward M.
Blando, Patricio B.
Burnett, Charles Pye Jr.
Cheung, Heung Shang
Clarke, George Eric
Clarke, George Whitaker
Coale, A. Draper, Jr.
Deaderick, Kelly Dent
De Garmo, Gerald Arthur (cum laude)
Derig, William Matthew
Grace, Robert Holder
Green, Thomas M. Jr.
Hatch, Orville C. Jr.
Horowitz, Charles (summa cum laude)

Ingersoll, Oliver Roland
Jackson, Roy E.
Keeler, Doris Rae
Kellogg, Orlo Burton (cum laude)
Keplinger, Lawrence Merle
Lane, W. Byron
Lund, John Grant
Lurie, Manuel Arthur
McCush, George William (cum laude)
Milot, John A.
Nordquist, Carlos Gustave Havrah
Olsen, Frederick C.
Pearl, Charles (cum laude)
Prim, John Edmondson
Degrees Conferred 1927

Reiter, Bernard
Roney, Ward William
Smith, Tremaine John
Stark, Russell F.

Stratton, Irving Rodd
Swift, Edward Alonzo Jr.
Westberg, Alfred John

Library School
BACHELOR OF SCIENCE IN LIBRARY SCIENCE

Abbott, Susan Estes
Anderson, Edith Lillian (cum laude)
Anderson, Helen G.
Bereiter, Marvel Naomi
Blossom, Rosamond May
Buck, Margaret
Campbell, Flora E.
Campbell, Freda
Campbell, Josephine Marie Hillier
Cole, Eva Marsden
Davis, Lois E.
Dobrin, Hilda
Dunton, Marjorie
Evans, Margery Carlota
Flahaut, Martha Reekie
Foltz, Laura Azalia (magna cum laude)
Garesche, Gladys M.
Gould, Clara Walters Heavysege
Graves, Katherine Helen
Harvey, Nellie Regina
Hinman, Agnes Lorene
King, Esther Elizabeth

Kirshner, Ora
Knox, Rozella Faustina
Lanning, Roland J.
Lensrud, Mabel English (cum laude)
Lewis, Kathleen Gwynneth
Mcafee, Irene
McQuaid, Alice Evelyn
Malmgren, Marie Hull
Notkin, Natalie Brodskaya
O'Keane, Mary Catherine
Perry, Warren Loud
Pierce, Dorothy Antoinette
Pineo, Eleanor W.
Russell, Ruth
Smythe, Lucile Charlotte
Swain, Olive
Taylor, Alice Lucile
Taylor, Elsie Gertrude (magna cum laude)
Thompson, Chloe Stevens
Van Horn, Amy

School of Journalism
BACHELOR OF ARTS IN JOURNALISM

Bachman, Raymond Lee
Blethen, Francis Alden
Brown, Robert William
Butler, Walter Rawson
Chapman, Horace
Conover, C. Norman H.
Drew, Claire Cecelia
Fitzharris, Edward James
*Fountain, Harold A.
Glass, Samuel Nevin
Hyndman, Beryl K.
Lippman, Edith Olive

Logan, Lorna Eileen
Lynch, Patricia Genevieve
McFadden, David Johnesse
Maher, Marian Frances
Matheson, Margaret I.
Miller, John Earl
Musgrave, Dorothy
Perdue, Edgar A.
Robbins, Nadine I.
Sheehan, Paul Vincent
Starr, Geraldine
Stewart, Ruth
Turner, James Clark
Willett, Madeline Muriel

*Died December 27, 1926.
University of Washington

PROFESSIONAL DEGREES

CIVIL ENGINEER

James Baker Hamilton
B.S. in C.E., University of Washington, 1923
Thesis: The Effect of Various Percentages of Entrance Rounding on Entrance Loss

MECHANICAL ENGINEER

Frederick Burt Farquharson
B.S. in M.E., University of Washington, 1923
Thesis: The Wind Balance in the Boeing Aerodynamical Laboratory at the University of Washington

GRADUATE DEGREES

GRADUATE SCHOOL

MASTER OF ARTS

Newton Carl Abbott (History)
B.A., University of North Dakota, 1910
Thesis: The Evolution of Washington Counties

Eva Greenalit Anderson (English)
B.A., Nebraska Wesleyan University, 1910
Thesis: Backgrounds of Willa Cather's Novels

Ruth Muriel Aspray (English)
B.A., University of Idaho, 1926
Thesis: Ellen Glasgow and the New South

Florence Davis Bain (Political Science)
B.A., University of Utah, 1919
Thesis: The Political Theory of Benjamin Franklin

Peter Jeremiah Bardon (Education)
B.A., University of Washington, 1911
Thesis: State Boards of Education with Special Consideration of State Boards in Control of Higher Educational Institutions

Dorothy Benham (English)
B.A., University of Washington, 1925
Thesis: A Translation of Selected Chapters from Albert Dauzat's The Life of Language

Thomas William Bibb (Economics)
B.A., William Jewell College, 1908
Thesis: Investments of Some Endowed Colleges

William Plummer Black (Sociology)
B.S., Oregon Agricultural College, 1922
Thesis: Rescue Missions of Seattle

Howard Blackenburg (History)
B.A., Walla Walla College, 1925
Thesis: The History of the Jury in England from Henry II to Edward I

Edwin Latham Bolton (Education)
B.S. in M.E., University of Washington, 1922
Thesis: An Analysis of the Contents and Arrangement of Five Modern Textbooks on High School Physics

Charles Milburn Boundy (Education)
B.A., University of Washington, 1924
Thesis: A Comparative Study of English and American Adult Education
Degrees Conferred 1927

Ward Simon Bowman (Education)
B.A., University of Michigan, 1908
LL.B., University of Michigan, 1909

Frank Buckley (English)
B.A., Walla Walla College, 1924
Thesis: Hamlin Garland and the Agrarian Crusade

Laura Dorothy Cartwright (French)
B.A., University of Washington, 1922
Thesis: A Comparative Study of the Journeys to Hell in Dante's Inferno, Virgil's Aeneid and Marie de France's Espératoire Saint Pâris

Dorothy Catherine Cassidy (Spanish)
B.S. in Educ., Ohio State University, 1920
Thesis: The Don Carlos Theme in Literature

Miriam Elizabeth Cole (English)
B.A., University of Washington, 1919
Thesis: A Study of Determinism in Fiction

Jane May Crow (Education)
B.S., Kirksville State Teachers College, 1928
Thesis: A Study of Achievement in General Mathematics

Elizabeth Davies (Education)
B.A., University of Washington, 1928
Thesis: The Teaching of History in France, Germany, England and the United States

Ruth Lucile Easum (English)
B.A., Knox College, 1925
Thesis: William Dean Howells' Appreciation of Jane Austen

George Washington Edwards (Education)
B.S.F., University of Washington, 1926
Thesis: The Origin and Development of Science

Nathanael Howard Engle (Economics)
B.A., University of Washington, 1926

Garland Oral Ethel (English)
B.A., University of Washington, 1928
Thesis: Four Realistic Stories of Western Life

Mary Elizabeth Salome Good (Education)
B.A., Bethany College, 1908
Thesis: Moral Education in Japan

George Franklin Gorow (Education)
B.S., University of Idaho, 1924
Thesis: Methods of Evaluating Teachers

Harold Oliver Gulliksen (Psychology)
B.A., University of Washington, 1926
Thesis: The Influence of Occupation upon the Perception of Time

Frank Downey Henderson (Education)
B.A., University of Washington, 1926
Thesis: The Voluntary Reading of Two Thousand Eighty Three Junior and Senior High School Pupils

Thomas Gerald Hermans (Psychology)
B.S., University of Washington, 1928
Thesis: Relative Value of Silent Study Accompanied by Speech in the Learning of Meaningful Material
Evelyn Eloise Kennedy (English)  
B.A., Linfield College, 1920  
Thesis: The Social Influence of Charles Reade

George Kessler (Sociology)  
Raccaulaureate, Graz, Austria, 1898  
Thesis: Incongruities of Contract Labor Legislation

Irma Etsell Kryzanowsky (Spanish)  
B.A., University of Wisconsin, 1913  
Thesis: Porto Rican Songs and Folk Tales

Vivian Effinger Lamont (English)  
B.A., Emerson School of Oratory, 1924  
Thesis: The Concept of Expression in Contemporary Aesthetics and Literary Criticism

Frederick Merrick Lash (Education)  
B.A., University of Washington, 1923  
Thesis: Junior Reserve Officers' Training Corps

Martin LeRoy Lindahl (Economics)  
B.A., Carleton College, 1924  
Thesis: The Rayon Industry and its International Aspects

Jeannette Estell Maltby (English)  
B.A., Washington State College, 1909  
Thesis: Spenser's Use of the Bible in the Faerie Queen, Books I and II

Ernest LeRoy Marchand (English)  
B.A., University of Washington, 1925  
Thesis: Joel Barlow, a Yankee French Romantic

Alfred William Matthews (History)  
B.A., College of Puget Sound, 1923  
Thesis: History of the College of Puget Sound

Edith Sidonie Michelsohn (French)  
B.A., University of Washington, 1908  
Certificat d' Etudes Francaises, Sorbonne, 1911  
Thesis: Racine's Esther: A Comparative Study of Sources

Jennie Mohr (Philosophy)  
B.A., University of Washington, 1925  
Thesis: An Enquiry Concerning the Meaning and the Criteria of Nonsense

Coleman Halpin Mulcahy (Journalism)  
B.A., Catholic University of America, 1924  
Thesis: Today in Journalism

*Aaron Newell (History)  
B.A., University of Michigan, 1902  
Thesis: History of the Administration of Law in the old Oregon Country

Bonnie Lucille Poole (Spanish)  
B.A., University of Washington, 1924  
Thesis: The Influence of Horace on Fray Luis de Leon

Melvin Miller Rader (English)  
B.A., University of Washington, 1925  
Thesis: A Comparison of William Blake and Fyodor Dostoevsky

Bessie May Robinson (History)  
B.A., University of Washington, 1920  

Catherine Virginia Royer (English)  
B.A., Mills College, 1924  
Thesis: Studies in Contemporary Biography

Died, April 2, 1927
Gustav Hermann Schlauch (Education)
B.A., Spokane University, 1919

Clara Olive Settem (French)
B.A., University of Washington, 1923
Thesis: The Relation of Gaydon to Gui de Bourgogne and to the Chanson de Roland

William Lawrence Shidler (Education)
B.A., University of Washington, 1922
Thesis: The Present Educational System of Japan

Josephine Lois Silvers (History)
B.A., University of Washington, 1925
Thesis: The History of the Eighteenth Amendment

Francis Angevine Staten (Economics)
B.B.A., University of Washington, 1925
Thesis: The Administration of the General Property Tax in Washington with Special Reference to Snohomish County

Elizabeth Shute Stoddard (English)
B.A., University of Wisconsin, 1908
Thesis: Religion in Modern Poetry

Nellie Cecelia Stone (Education)
B.A., University of Washington, 1924
Thesis: Compulsory Attendance and Child Labor Legislation

Eunice Storey (English)
B.A., University of Washington, 1926
Thesis: The Ethics of Jonathan Swift

Arthur Samuel Taylor (Education)
B.A., Williams and Vashti College, 1917

Joseph Marshall Tewinkel (Education)
B.S., Whitman College, 1923
Thesis: A Study of High School Spelling

Sara Smedley Vance (Economics)
B.S., Oregon Agricultural College, 1925
Thesis: The Dawes Plan in Operation

Theodore Kampmann Vogler (English)
B.A., Moravian College, 1921
Thesis: Studies in Robert Browne

Kenneth Oren Warner (Political Science)
B.A., University of Washington, 1923
Thesis: The Political Theory of James Wilson

Richard Weir (History)
B.A., College of Puget Sound, 1925
Thesis: The Work of the Department of Agriculture during the Incumbency of Secretary James Wilson

Lyda Arnold White (Psychology)
B.A., University of Washington, 1925
Thesis: Studies of Professional Ethics for Nurses
University of Washington

MASTER OF SCIENCE

John Stauder Biggerstaff (Mathematics)
B.A., Reed College, 1924
Thesis: Arithmetic of Nonions

Gordon Dean Byrkit (Chemistry)
B.A., University of Kansas, 1926
Thesis: Double Salts of Aniline and Aniline Hydrohalides with Metal Halides

Edith Agnes Cattle (Bacteriology)
B.S., University of Washington, 1924
Thesis: The Study of Halophytic Bacteria found in some Pickling Brines

Anna Edsall Church (Chemistry)
B.S., University of Washington, 1924
Thesis: The Condensation of Normal Butyraldehyde with Methylphosphyl Ketone

Edith Agnes Cattle (Bacteriology)
B.S., University of Washington, 1926
Thesis: The Study of Halophytic Bacteria found in some Pickling Brines

Anna Edsall Church (Chemistry)
B.S., University of Washington, 1924
Thesis: The Condensation of Normal Butyraldehyde with Methylphosphyl Ketone

Laura May Connell (Home Economics)
B.A., University of Wisconsin, 1924
Thesis: Vitamin E a Factor in the Causation of Nutritional Anemia

Donald Russell Crawford (Zoology)
B.S., University of Washington, 1923
Thesis: The Intestinal Folds of Certain Salmonidae

Hattie May Fitzgerald (Bacteriology)
B.S., University of Washington, 1925
Thesis: Gas-forming Anaerobes in Starch in Relation to the Explosion of Chocolate Candles

Mildred Prescott Gellerman (Zoology)
B.A., University of Wisconsin, 1922
Thesis: Medusae of the San Juan Archipelago

Olive Marrisco Hannant (Home Economics)
B.Ed., Illinois State Normal University, 1923
Thesis: Relation between School Achievement and Nutritional State of Children as Shown by Weight to Height Relationship

Helen Tyson Hart (Botany)
B.A., Vassar College, 1924
Thesis: Delayed Germination in Seeds of Peltandra Virginica and Celastrus Scandens

Victor Hicks (Physics)
B.A., Willamette University, 1925
Thesis: The Use of a Photoelectric Cell for the Measurement of Intensities of X-rays

Alice Sherfy Houston (Home Economics)
B.S., Ohio State University, 1924
Thesis: A Critical Survey of Prevailing Food Fads

Gladys Guernsey Kaiser (Bacteriology)
B.S., University of Washington, 1924
Thesis: Does the Wax on the Tubercle Bacillus Act as a Protective Agent

Jay Adrian Kempkes (Psychology)
B.S., Central College, 1914
Thesis: Nesting Behavior of the Western Meadowlark (Sturnella Neglecta)

Elizabeth Knox (Botany)
B.A., Colorado College, 1922
Thesis: Porphyra Naladum, Anderson
Myron Dollard Likes (Chemistry)
B.S., University of Washington, 1922
Thesis: The Influence of Hydrogen-Ion Concentration on Emulsions

Louis Marick (Physics)
M.E., Montana State School of Mines, 1925
Thesis: Radiography of Magnesium and Aluminum Alloy Castings

Marian Esther Meaker (Zoology)
B.S., University of Washington, 1924
Thesis: A Quantitative Determination of the Vitamin A Content of the Liver Oils of Raja Binoculata and of Hexanchus Griesii

George O. Monda (Zoology)
B.S., University of Washington, 1925
Thesis: The Isopoda of Puget Sound and Adjacent Waters

Clarita Leigh Moore (Zoology)
B.A., Syracuse University, 1920
Thesis: Simple Ascidians of the Friday Harbor (Washington) Region

Floyd Clifford Ostensen (Physics)
B.S., University of Washington, 1922
Thesis: A Study of the Effect of Frequency on the End Correction in Brass Pipes Closed at One End

Ruth Elizabeth Platt (Botany)
B.S., University of Washington, 1923
Thesis: Starch Hydrolyzing Activity of Eight Brown Algae (Phaeophyceae)

Maud Ruth Rice (Chemistry)
B.S., College of Idaho, 1918
Thesis: The Effect of the Antirachitic Vitamin upon the Growth and Development of Tadpoles

Henry John Ruzicki (Physics)
B.S., University of Washington, 1922
Thesis: A Study of the Temperature Coefficient of Resistance of Wood's Metal

Emmett D. Towler (Zoology)
B.S. in Ed., University of Missouri, 1916
Thesis: The Common Barnacles of Friday Harbor, Washington, and their Distribution

Aaron Waters (Geology)
B.S. in Geol., University of Washington, 1926
Thesis: A Structural and Petrographic Study of the Glass Buttes, Lake County, Oregon

Victor Elliott Wellman (Chemistry)
B.A., Phillips University, 1924
Thesis: A Study of the Factors which Influence the Potential of the Oxygen Electrode

Helena Johna Werby (Zoology)
B.S., University of Washington, 1920
Thesis: A Review of the Trematode Genus Harmostomum new to North America

Leslie Edwin Wilson (Geology)
B.S., University of Washington, 1926
Thesis: Stratigraphy and Paleontology of a Part of Garfield County, Montana, with Notes on an Unconformity at the Base of the Lance Formation

William Rienze Visser
B.S. in C.E., University of Washington, 1926
Thesis: The Effect of Thickness on the Flow of Water Through a Re-entrant Tube
University of Washington

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING
Clifford Milton Briggs
B.S. in E.E., University of Washington, 1926
Thesis: The Five Hundred Mile Transmission Line with Distributed Synchronous Condenser Capacity and Transmission at Unity Power Factor

MASTER OF SCIENCE IN CERAMIC ENGINEERING
Henry Nicholas Baumann, Jr.
B.S. in Min.E., University of Washington, 1911
Thesis: Heat Balance Studies of Ceramic Kilns

MASTER OF SCIENCE IN MINING ENGINEERING
Howard Smith Davis
B.S. in Min.E., Pennsylvania State College, 1923
Thesis: Stratification on a Coal-washing Table

MASTER OF FORESTRY
Floyd Willard Cory
B.S.F., University of Michigan, 1924
Thesis: The Influence of Canadian Competition on the Pulpwood Industry of the Pacific Coast

MASTER OF SCIENCE IN PHARMACY
Caty Josephine Braford
B.S. in Pharm., University of Washington, 1925
Thesis: A Pharmaceutical Study of Syrup of Ferrous Iodide, 1840-1927
Russell Arnon Cain
B.S. in Pharm., University of Washington, 1925
Thesis: A Physico-Chemical Study of the Leaves of Three Medicinal Plants in Relation to Evergreenness
Marguerite Alice Hammond
B.S. in Pharm., University of Washington, 1926
Thesis: The Examination of Gaultheria Shallon for Volatile Oil and Glucosides
Violet Kum-Feng Wong
B.S. in Pharm., University of Washington, 1927
Thesis: A Pharmaceutical Study of Syrup of Hydriodic Acid, 1860-1927

MASTER OF BUSINESS ADMINISTRATION
Archie Campbell Edwards
B.B.A., University of Washington, 1924
Thesis: The Bonded Warehouse vs. the Free Port
Sotero Estepa
B.A., University of Washington, 1926
Thesis: The Philippine Currency
Fred Edward Forster
LL.B., Chicago Kent College of Law, 1915
B.B.A., University of Washington, 1925
Thesis: The Valuation of Public Utilities for Rate-Making Purposes as set forth by the Federal Courts in the United States
Sarah Helen John
B.S. in Commerce, Oregon Agricultural College, 1922
Thesis: Community Advertising in the Pacific Northwest
Chang Pei Yuan
B.B.A., Nankai College, 1915
Thesis: The International Aspect of the Chinese Silk Industry
Degrees Conferred 1927

MASTER OF FINE ARTS

Florence Ruth Todd
B.A., College of Puget Sound, 1924
Thesis: Illustration for Child's Book

DOCTOR OF PHILOSOPHY

Paul Stanton Bachman
B.A., Ohio State University, 1921
M.A., University of Washington, 1925
Thesis: John Marshall's International Law Doctrine

Philip Gordon Colin
B.S. in Ch.E., University of Washington, 1923
B.S. in E.E., University of Washington, 1925
Thesis: A Laboratory Study of Nitrogen Fixation by the High Tension Arc Reduced Pressure

Edgar Marion Draper
B.A., University of Washington, 1916
M.A., University of Washington, 1925
Thesis: A Philosophical Study of the Contribution of Extra Curricular Activities to School and Community Citizenship

Edwin Harold Eby
B.B., University of Chicago, 1923
Thesis: American Romantic Criticism, 1815 to 1860

William David Fuller
B.A., University of Wisconsin, 1911
M.A., University of Maine, 1918
Thesis: An Investigation of Some Problems of Administration Confronting the Public Junior Colleges of California

Forest Jackson Goodrich
B.S. in Pharm., University of Washington, 1914
M.S. in Pharm., University of Washington, 1917
Thesis: Oenanthe Sarmentosa

Cecil Leonard Hughes
B.Ed., University of Washington, 1921
M.A., University of Washington, 1925
Thesis: The Development and Present Status of Music Instruction in Secondary Education in the United States

Roger Williams Truesdail
B.S., University of Redlands, 1921
M.S., University of Oregon, 1922
Thesis: The Vitamin—A Content of Pacific Coast Salmon Body Oils

Dudley Wilson Willard
B.Ed., University of Washington, 1917
M.A., University of Washington, 1922
Thesis: A Social Critique of Current Tendencies in Health Education

Sophus Keith Winther
B.A., University of Oregon, 1918
M.A., University of Oregon, 1919
Thesis: Matthew Arnold's Literary Reputation
NORMAL DIPLOMAS

UNIVERSITY-FIVE-YEAR NORMAL DIPLOMA

Aber, James Finis
Ackley, Elene
Adams, Susanna Catherine
Alexander, Frank E.
Allehoff, Julia
(Sister Mary Alicia)
Allen, Lois Maxine
Altergott, Alexander Jr.
Anderson, Ida Belle
Anderson, John Adolph
Anderson, Margaret Galloway
Arend, Harry O.
Armann, Edith Elizabeth
Ashley, Ethel Marie
Ashton, Philip Frederick
Atkins, Edith May
Aumann, Dorothy Maud
Aust, Ruth

Baes, Engla Bernice
Bailor, Wallace Floyd
Baker, Rena Rose
Bale, Genevieve Georgiana
Barclay, Margaret Martin
Barker, Loris T.
Barnwell, Cecile Kent
Bartine, Wesley Barholomew
Baumgartner, Grace
Beal, Maud Layton
Beck, Jean
Belden, Miles Bebee
Belknap, Mae Stephens
Bennett, Wynona Pearl
Bettinger, Dawn Loueze
Beutel, Margaret Anne
Bigley, John
Bird, Emma Marie
Bishop, Dorothy Lynwood
Black, Dorothy Leone
Blackaller, Mary Louise
Bliss, Grace Eldred
Bloom, Edward Franklin
Bloom, William Howard
Blue, Ellen Eugenia

Bolt, Emma
(Sister Mary Leonella)
Boyker, Maxine Marie
Bradley, Florence Doris
Branshaw, Frances
(Sister Mary Veronica)
Bradshaw, Grace Elizabeth
Brewer, Vincent Robert
Britton, Cathryn Margaret
Bromley, Mercy Cove
Brown, Cecil Clark
Brown, Florence Louise
Brown, Kathryn Louise
Bruff, Ettie Julia
Brunner, Elma Margaret
Burnett, Alta Hazel
Burns, Dorothy Frances
Burns, Jessie Elizabeth
Burnside, Margaret Ann
Busch, Vera
Butler, Dorothy Lucille

Cahoon, Mabel
Campbell, Josephine Marie Hiller
Carlander, Gertrude
Carlson, Mabel
Carlson, Ruth Lily Elenora
Carssow, Elsie L.
Cartwright, Edward D.
Cathey, Franklin Warren
Cavanaugh, Esmer Dorothy
Chandler, Berniece Claire
Chapman, Merna Louise
Charlesworth, Ruth
Chase, Dorothy Grace
Chase, Jennie Alberta
Christy, Dagmar Carolina
Church, Ruth Margaret
Clancy, Margaret
Clarke, Celia Lucille
Clarke, Katherine Lucille
Clein, Lillian
Cline, Ida Riste
Coats, Florence Elizabeth
Conant, Estella Louise
Degrees Conferred 1927

Cone, Dwight Harthan
Connolly, B. Genevieve
Converse, Adelia M.
Cook, Richard H.
Coon, Amy Grace
Corey, Elva Florence
Cowden, Neva La Rue
Craft, Doris Thelma
Crane, Alice Elizabeth
Craven, Dorothy
Crawford, Roberta Margaret
Curry, Carrie Maud

Daly, Mary Elizabeth
Daut, Audrey
Deasy, Catherine Marie
DeMary, Dorothy Putnam
Devanna, Aileen Winifred
Dick, Bessie M.
Dick, Miriam Russell
Dick, R. Sherman
Dickinson, Dorothy June
Dickinson, Irene Ysobel
Didzun, Oscar J.
Dilling, Margaret Stevens
Dillon, Ruby, L.
Dingle, Virginia
Dodge, Elva Mabel
Donahue, Alfred Bernard
Donaldson, Hallie
Dougerty, Ruth Millicent
Douglas, Jean Elizabeth
Driscoll, Anna Marie
DuBois, Frances Georgene
Dunbar, Helen Frances
Duncan, Margaret M.
Dunn, Florence Steele
Durose, Fred Wesson
Duto, Dora
Dwire, Gertrude
Dykstra, R. G.

Eagleson, Helen Jane
Eckrem, Dagrun Lillian
Edwards, Pauline Kennett
Eidal, Elmer Oliver
Erlanger, Katheryne Brown
Evans, Catherine

Ferguson, Lois Genevieve
Ferry, Frances
Finn, Mary
(Father Mary Josephine)
Finnegan, Frances
Fiscus, Louis R.
Fisher, Mary Alma

Flock, Eunice Verna
Flyrne, Madeline Lucille
Forrest, Veda
Powlkes, Florence Vickers
France, Muriel E.
Franklin, Alice Mae
Fraser, Edna Mary
Fraser, Russell Edward
Friderici, Hazel Eugenia
Frost, Leona King

Gallagher, Margaret Eileen
Gallinger, Edythe Myldred
Gaul, Leona Louise
George, Dorothy Adella
George, Mary Martha
Gerriets, Bertha Lucy
Gilbertson, Alma Christine
Gilleland, Mary Rynd
Gingrich, Esther Marie
Glaze, Nina Muncy
Gorrell, Winifred Genevieve
Gorton, Samuel Hiram
Grace, Elizabeth Buchanan
Graff, Clark Francis
Grass, Lorette B.
Gray, Virginia Hallock
Green, Marvel Josephine
Gross, Katherine J.
Gross, Marjorie Graves
Grove, Claire MacA.
Grove, Leon Conner
Guay, Emma Collard
(Sister Mary Dominic)
Guthrie, Elton Ferdinand

Habicht, Helen M.
Hackett, Clara Allison
Hagar, Irene A.
Hahn, Genevieve K.
Hahner, Olive Margaret
Hale, Eleanor Elizabeth
Hall, George Mason
Hall, Ruth Virginia
Hamilton, Bernice M.
Hammond, Allen O.
Handy, Virginia Showalter
Hanks, Josephine Beatrice
Hannum, Margaret Lucinda
Hansen, Helen A.
Hansen, Herbert
Harden, Mabel Zulema
Harshman, Agnes Campbell
Hatley, Porter J.
Haug, John Meyer
Hawk, Frank H.
Hazen, Oliver Miner
Hecht, Ruth Elizabeth
Hefteren, Agnes
(Sister Mary Austin)A
Heise, Irvin F.A
Henderson, Frank DowneyA
Herman, Helen H.
Herod, Mignon
Hinman, Agnes Lorene
Hinsdale, Helen L.
Hitchman, Betty Josephine
Hoag, Alberta
Hodge, James WesleyA
Hoffland, Laura HildrethA
Hoffman, Dorothy SylviaA
Hoffman, Marian
Holden, Blanche L.
Hopkins, Eugenia VictoriaD
Howatt, Alice I.
Hughes, Margaret Clair
Huletz, Helen Marie
Hurd, MayA
Ireland, Gertrude Goodrich
Ison, Max Dana
Jackson, Virginia Winston
Jeffery, Harold Baker
Jennings, TillieA
(Sister Mary Floretta)A
Jensen, Margaret Irene
Jensen, Thomas Martin
Johnsen, PaulineB
Johnson, Arthur FranklinA
Johnson, Berkley G.A
Johnson, Carl GustafA
Johnson, Mariam MarieA
Johnson, Paul William
Jones, Estelle E.P
Jones, Ione LouiseA
Jones, Wilfred RoscoeX
Judd, Marie
Kamb, Leona4
Kane, Kathleen
Kane, Olive Cecelia
Kautz, Bernice Q.A
Kemper, Phyllis JanetX
Kennedy, Elizabeth
Kettenring, Elizabeth Eleanor
Kimball, Stanley Genlis
Kimple, William A.
King, Eleanor VirginiaA
King, James G.A
Kirsch, John Bernard
Knowlton, Charlotte Jane
Kochevar, Dorothy Lorene
Koert, PeterA
Kopika, Irla
Kullberg, Jule Helen
LaFromboise, Clarence Brown
Lambert, Helen MarieA
Larkin, Lucretia StarrMX
Larson, Nettie RoseA
Larson, Olga MadelineX
LaVine, Gladys Morrill
Lawen, Amalia ReginaA
Layton, Mildred Glenrose
Leathers, Arthur Le RayM
Leatherwood, William F.A
Lemond, Helen A.
Leslie, Anna
Levitin, MorrisM
Leyman, Garnett Valentine
Libby, Annie E.
Limbach, Dorothy HelenA
Lind, Anna Regina
Liston, Edward J.A
Littlefield, Lena Experience
Logan, Lorna Eileen
Loken, Clarice Elizabeth
Loving, MarianneX
Luman, James GuyA
Lowrie, Ruth Almira
Lundy, Oliver G.
Lynch, Patricia GenevieveD
Lynch, Thomas CharlesA
McAllister, Geraldine MarieD
McCarthy, Margaret EleanorA
McClure, Willard
MacDonald, Sarah Isabel
McDonnell, Audrey
McElvain, Ernest EmersonD
McFaddin, Helen Jane
McFee, Louisa CatherineX
MacGowan, Clara
McIntosh, Margery Phidelia
McKay, Alice
McKinnell, Eloise McPherson
McLain, Ada EscoA
McLaren, Marian Esther
McLaughlin, Helen York
McLennan, Susan IsabelD
McNary, Catherine
McRae, Ruth Moore
MacKenzie, Clemewell Loraine
Moses
Mahone, Lena LouiseD
Mantei, Vega PattersonA
Martin, Trula EvelynA
Matheson, Margaret J.
Mattila, Walter Oscar
Maydahl, Bergete Olga
Metcalf, Thelma BerniceA
Meyers, Liv Alice
Degrees Conferred 1927

Mielke, Helen Evelyn
Milam, Carey Harris
Milford, Mersel
Miller, Adelaide Lavina
Miller, Grace Whiting
Miller, Raymond Paul
Mills, Mabel S.
Miner, Grace Edith
Mitchell, Webster Lee
Mollestad, Marie Schober
Montgomery, Anna H.
Moran, Helen Frances
Morgan, Lucile
Morgan, Ruth Eleanor
Moseley, Robert Duncan
Mowat, Helen Frances
Mowry, Ellen Rachel
Muir, Mary
Murray, Jane Frances
Myers, Doris Maurine
Nanney, Albert M.
Nardin, Alphonse Charles
Nash, L. Catherine
(Norister Mary Edwardine)
Neely, C. Bertis
Nelson, Evelyn Ida
Nesalhouse, Gertrude Marie
(Norister Mary Ambrosia)
Nessly, Dorothy Elizabeth
Newberry, Amelia Ella
Newton, May E.
Neylon, Mary Teresa
Niesen, Helene J.
Noftsinger, Edith "eanne"
Norton, Frances Ramona

Oldfield, Alice A. Dominica
(Norister Mary Dolores)
O’Leary, Helen Kathleen
Olney, Dorothy Sue
Olsen, Bergliot Nancy
Olson, Olaf Ebert
Osterman, Henrietta

Parker, Agnes Frances
Pashley, Harry Brust
Peach, Helen Agnes
Peairs, Goldia Lucille
Pease, Estelle Elizabeth
Pellegrini, Rosalie Leila
Penington, Ruth Esther
Percival, Dorothy Louise
Perring, Norman Claud
Perry, Mary Agnes
Peters, Laura Beatrice
Peterson, Amy Kathryn
Peterson, Edith N.

Peterson, Ida Gertrude
Peterson, Marie Laura
Petittgrew, Anna Thompson
Petittgrew, Elizabeth
Philippi, Herbert
Philpot, Pauline
Pierce, Florence Barbara
Porep, Helen Caroline
Potts, Theresa Ann
(Sister Mary Lourinda)
Predmore, Alice Elizabeth
Pugh, Venetia Elizabeth

Raber, Ruth Marion
Ramsay, Ruth Rhodes
Rasmuson, Evangeline
Rathbun, Anna Louise
Raum, Dorothy
Raymond, Ethel Gertrude
Reeder, Verma Terry
Refling, Norman
Remy, Frances Louise
Renshaw, Mildred Belle
Richards, Thelma Arlene
Riss, Arthur Henry
Riss, Eleanor Cross
Robertson, Angelina Turinsky
Roe, Edith Muriel
Roe, Howard Earl
Rogers, Catherine Amy
Rollinger, Dorothy
(Sister Mary Josepha)
Rosen, Johanna Josephine
Ross, Lemuel
Rovig, Helen L.
Rowe, Abbie Elizabeth
Rude, Hazel Irene
Ruidl, Philip F.
Russell, Alice Pearl

Samzelius, Alpha L.
Sandall, Loretta M.
Sandbrink, Alice Margaret
Schaeffer, Claude Everett
Scheffer, Theodore Comstock
Scheuerman, Ruby Irene
Schenken, Robert Crocker
Schrader, Neva L.
Schrock, Clarice Mazie
Scott, Frances Isabel
Scott, Hilda Isabelle
Scott, Marjorie
Secrest, Ruth Viola
Seidenfeld, Morton Alfred
Sefert, Helen Louise
Selde, Alice Frances
Sell, Myrtle May
Sey, Martha Coral
Sheehan, Paul Vincent
Sheets, Hilma Ilene
Sheldon, Dorothy E.
Sheller, Dorothy Enid
Shephard, Kathryn Mary
Sherr, Helen More
Shidler, Harold
Shinabargar, Jean Doreen
Shoulder, Marguerite Dorothy
Showell, Gwendoline
Simpson, Donald
Sims, Bertha Mary
Sisler, Dorothy Muriel
Sjaastad, Anna Olivia
Skansie, Clementine Agatha
Smith, Hjordis Carola
Smith, Leah Ina Littlefield
Smull, Victor Albion
Sorensen, Harry Daniel
Sprinkle, Frances Margaret
Stafford, John B.
Stager, Helen Elizabeth
Stalberg, Vera C.
Starr, Geraldine
Stedman, Vera H.
Steeves, Blanchard Perley
Stephens, Irene N.
Stewart, Dorothy Cecelia
Stewart, Florence B.
Stewart, Ruth
Stone, Lucia May
Stoner, Juanita June
Storey, Guinevere C.
Stover, Leona Hope
Strand, Sophie
Sundquist, Ida Elvira
Sunnell, Bertha Alexandria
Swomels, George Edward
Sutherland, Alice Wood
Sutherland, Ethel Emogene
Swanson, Dorothy Miller
Swanson, Myrtle Lenea
Swedine, Elmer

Taylor, William David Jr.
Thompson, Dorothy Elizabeth
Thompson, Ethel Marion
Thompson, L. Katherine
Thompson, Margaret J.
Thorn, Alfred Amel
Thorne, Thelma May
Thrun, Beatrice Dorothy
Tilton, Kenneth Elwood
Townsend, Florence Elizabeth
Townsend, Lorita Marguerite
Travis, Virginia L.
Traffy, Ralph Paul
Tryggvi, Carl
Tucker, Roy Francis

Vandivort, Mary Harriett
Varney, Adah May
Vaughan, Frances Clare

Walck, Ida Rozelee
Wallace, Jean Margaret
Walsh, Grace Ann (Sister Mary Michael)
Walsh, Helen Bernice
Walsh, Mary Louise
Ward, William Eugene
Ware, Jeannette Huntington
Waters, Ellen Harriet
Watkins, Minnie Jane
Weir, Mary Frances
Westall, Albert James
Weyermann, Oscar Ferdinand
Whelan, Elizabeth McDowell
White, Helen Katherine
White, Myrtis
Whitmore, Pearle R.
Whitmer, Lois Elaine Bennett
Wolf, Katharine Alice
Wolf, Dael Lee
Wright, Harriet Isabelle
Wright, Parke A.
Wright, Quintin Bertram
Wynn, Thomas Delaney
Wynstra, Walter Scott

Young, Mary Glendowin

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

Javato, Fermin
Straight, Robert
Degrees Conferred 1927

University Life Diploma

Adamson, Merritt Christopher
Anderson, Helen Dorothy
Arnell, Rebecca
Batdorf, Beryl
Bedell, Mary E.
Bewley, Ruth Lynette
Bille, Margaret Jane
Bousfield, Winifred
Bowman, Ward Simon
Buhl, Frances Helen
Caulkins, Glenn Whitman
Clark, Elizabeth Roulston
Clarke, Lillian
Coleman, Raymond W.
Corner, Miriam Gardner
Creamer, Evelyn Marion
Daughtery, Anna Mott
Davies, Elizabeth
Davies, Emil
Donahoe, Agnes M.
Doremus, Della Ellen
Drake, Helen Hazel
Drake, Mildred Ethyl
Edgerton, Ernest Benjamin
Edwards, George W.
Elwick, Andrew
Ford, Gertrude Catherine
Foster, Olive Reeves
Foster, Philip Robert
French, Merle Carolyn
Fulton, Lois Mildred
Galbraith, Mary Grace
Geer, Bernice Lura
Gellerman, Louis Wagner
Gernacy, Louise
Gerriets, Eva Alice
Gray, Helen Frances
Groth, Joyce Irene
Hall, Mary Elizabeth
Hart, Ruth M.
Hesseltine, Lee Frazelle
Hodge, Frances Bakeman
Imus, Raymond McKinley
Jackson, Betty
Johnson, Isyl Florence
Kangley, Lucy
Keith, Allie Hazelton
Kimball, Jessie M.
Kirkham, Martha Bernice
Kravik, Valois Murray
Larkin, Frances Emma
Larse, Mona J.
Legg, Emily
Lilly, Stella Audrie

Long, Agnes
Lynch, Isabelle Reis
McGuinness, Mary Rice
McKay, Zenda Lorraine
McNerthney, Catherine (Sister Mary Margaret)
Mallory, Mildred McClane
Morgan, Frances Lillian
Morris, Ruby Ada
Moulthrop, Lena V.
Nordholm, Olga Eleanor
Nutley, Margaretta Stuart
Ouren, Marian
Paulsen, Pauline Alberta
Perkins, Georgia Yost
Peterson, Inez Helena
Peterson, Ole Theodore
Raasch, Leonard O.
Rasmussen, George Vincent
Reuter, Alexa M.
Robinson, Katharine Una
Roop, Milford William
Russell, Florence Margretta
Ryan, Helen Theresa
Satoris, Madelyn Veronica
Schmid, Byron Clayton
Schofield, Marguerite Catherine
Sealls, Rachel Joyce
Shidler, Edwin Williamson
Simas, Frances M.
Steele, Susie Frances
Stone, Nellie Cecelia
Summers, Doris Edith
Sundling, Doris Mae
Towne, Arthur H.
Turner, Lloyd Edwin
Turner, Lucille Marie
Virtue, Jessie Hardy
Wann, Arva W.
Ward, Alma M.
Warner, Genevieve
Watkins, Eula May
Watkins, Ina Ree
Watson, Anna Elizabeth
White, Myrtle Pauline
Whitehead, Francis Virgil
Wilson, Emma Jeanette
Wilson, Lucy Harriet
Wilson, William Gray
Wood, Agnes Jasper
Woods, Rachel Angelina
Woods, Ruth Elizabeth
Young, Eiclce Frances

Honor Graduate in the Law School

Charles Horowitz

This award is made upon the basis of the best record for scholarship and personality made by any member of the present graduating class during the three years of law and his name is inscribed upon the plaque presented by the honorary law fraternity of Phi Alpha Delta.
# University of Washington

## Undergraduate Scholarship Honors

### First Junior Honors

- Aronin, Anna (L.A.)
- Bell, Hazel Lamar (L.A.)
- Bolster, William (Engr.)
- Bradley, Arvid M. (Journ.)
- Bransford, Thomas Lowe (L.A.)
- Brown, Edwin Gordon (B.A.)
- Burns, Harry H. (L.A.)
- Carter, Leo Alexander (Engr.)
- Clark, Robert Granger (L.A.)
- Cluck, J. Raymond (L.A.)
- Cohen, Rose (L.A.)
- Delanty, William H. (B.A.)
- Draper, Dorothy E. (B.A.)
- DeWitt, Ruth Evelyn (L.A.)
- Edwards, William W. (L.A.)
- Falk, David Richard (B.A.)
- Fenton, Elizabeth Warren (L.A.)
- Fowler, Wallace Elder (B.A.)
- Freund, Julia (L.A.)
- Gates, Alice Elizabeth (L.A.)
- Herbsman, Virginia (B.A.)
- Hickley, Kathryn (F.A.)
- Hoff, Ebbe Curtis (Sci.)
- Hoff, Hebbel Edward (Sci.)
- Hughes, Katherine W. (Sci.)
- Jennings, Elizabeth (L.A.)

### Second Junior Honors

- Anderson, Katherine Eva (L.A.)
- Birdseye, Story (L.A.)
- Botsford, J. Lawrence (L.A.)
- Boyd, Jennette Dorothy (L.A.)
- Brandner, Henry Philip (For.)
- Brewitt, Everilda, (F.A.)
- Brooks, William Edward (Phar.)
- Burdge, Winifred M. (L.A.)
- Cartano, Margaret C. (L.A.)
- Charners, Jesse Earle (For.)
- Chatterton, Katherine W. (Sci.)
- Crawford, G. Marshall (Sci.)
- Dodson, Eleanor (L.A.)
- Elmore, Ann (L.A.)
- Froula, Olivia (B.A.)
- Grady, Mary Alice (Sci.)
- Hadsell, Robert Lee (B.A.)
- Hall, Margaret Olive (Educ.)
- Hanson, Elsine Linnea (B.A.)
- Harris, John Franklin (L.A.)
- Hillyer, Theodore F. (L.A.)
- Hirschman, Joy (Sci.)
- Hutchins, Lewis C. (L.A.)
- Iverson, Lyle Louis (L.A.)
- Jessen, Christine (Sci.)
- Johns, Harold Nash (L.A.)
- Johnson, Eloise Ruth (L.A.)
- Kunde, Norman Fredrick (Educ.)
- Lytel, Richard Edward (F.A.)
- March, Martha Jane (L.A.)
- Maslan, Aaron L. (Law)
- Mills, Orville H. (Law)
- Morry, Lucile K. (L.A.)
- Moulton, Helen Rebecca (L.A.)
- Jensen, Lucie (Educ.)
- Johns, Leota Lois (L.A.)
- Joyce, Wallace Robert (Engr.)
- Kimura, Tadao (L.A.)
- McGill, Ruth (L.A.)
- McKay, Elizabeth Margaret (Sci.)
- Martin, Thelma E. (L.A.)
- Mickelwait, Lowell P. (B.A.)
- Miller, Franklin (B.A.)
- Mund, Vernon A. (B.A.)
- Myers, Dorothy Clara (B.A.)
- Neldskey, Leo (Engr.)
- Newell, Richard L. (Engr.)
- Patzer, Sidney (L.A.)
- Peterson, Arleen (L.A.)
- Shepard, Evelyn (L.A.)
- Sidell, Irving Theodore (B.A.)
- Skinner, Selby M. (Sci.)
- Snoke, Albert Waldo (Sci.)
- Taylor, Kyle Elden (F.A.)
- Thornton, Marion Janet (Journ.)
- Troja, John Baptiste (Engr.)
- Twurutani, Daniel (L.A.)
- Van Valin, Carl Frederick (Fish.)
- Wilson, Evelyn M. (F.A.)
- Zimmerman, Frances (L.A.)
- Newman, Ruth Levens (Sci.)
- Oliver, Marguerite J. (L.A.)
- Park, J. Howard (Engr.)
- Patjens, Irene Lillian (L.A.)
- Pearson, Mabel V. (F.A.)
- Peterson, Alma F. (Sci.)
- Peterson, Arthur C. (Engr.)
- Peterson, Claire Anabel (F.A.)
- Pickard, Ward L. (Journ.)
- Potter, Helen Agnes (L.A.)
- Potter, Ruth Antoinette (Sci.)
- Proffitt, Lehman Maurice (B.A.)
- Raitt, Janet Mahood (Sci.)
- Ralls, Roberta (L.A.)
- Reid, Alice Mildred (L.A.)
- Reise, Herman Adolph (Engr.)
- Rueger, Clarence Raymond (F.A.)
- Ryan, Frank William (L.A.)
- Ryan, Grace Henrietta (L.A.)
- Sankela, William Emanuel (For.)
- Shipleys, Dorothy (Educ.)
- Snelling, Lewis B. (For.)
- Stokes, Margaret Ruth (L.A.)
- Templeton, David Dryden (B.A.)
- Tilley, John Norman (Sci.)
- Tower, James Allen (L.A.)
- Tracy, Jack Stewart H. (B.A.)
- Tucker, Margaret (Educ.)
- Wallace, Lenore Ardis (Educ.)
- Wang, Laura Katherine (L.A.)
- Weil, Helge (B.A.)
- Willman, Richard C. (Engr.)
- Wright, Paul Wernich (Educ.)
Degrees Conferred 1927

FIRST SOPHOMORE HONORS

Ashby, Paul Flesher (L.A.)
Baird, Harriet Warner (L.A.)
Barbour, Dana Mills (L.A.)
Bass, Ernest (B.A.)
Blatt, Eva (B.A.)
Bonnar, Robert U. (Sci.)
Brandt, Ralph L. (L.A.)
Curry, Eula Marie (L.A.)
Duff, Marion Louise (Sci.)
Freed, Joseph Edward (B.A.)
Gideon, Edith Margaret (Sci.)
Gorham, Elaine Standish (L.A.)
Gow, Paul Louden (Sci.)
Grunbaum, James Edward (F.A.)
Harby, Sam Farkas (L.A.)
Hardy, Martha E. (L.A.)
Haring, Robert Clinton (Engr.)
Hicks, John Frederick Gross (Sci.)
Hinckley, Martha Ann (F.A.)
Hitchman, Robert Bruce (L.A.)
Johannsson, Lincoln Stigur (L.A.)
Johnson, Mildred Elvira (B.A.)
Kelly, Edgar Andell (Pharm.)
Kidd, Eleanor (L.A.)
Leedy, Virginia (Sci.)
Libert, Norman Francis (Pharm.)
McIntosh, Loys Maude (F.A.)
McSwain, Josephine W. (L.A.)
Maas, Johannaette (L.A.)
Major, Sidney Walter (L.A.)
Marple, Elliot (L.A.)
Meacham, Larned Ames (Engr.)
Miller, Paul Warren (B.A.)
Mills, Eileen Elizabeth (L.A.)
Ness, Elam VIDEO (B.A.)
Nicholson, Catherine J. (F.A.)
Padley, Willine Julianna (L.A.)
Partridge, Edith Mae (L.A.)
Plum, Lester Virgil (L.A.)
Quigley, Marian Lillian (L.A.)
Rhodes, Helen Harvey (L.A.)
Riseland, Alice E. (B.A.)
Rodgers, Roe P. (Engr.)
Schoeggl, Carl (B.A.)
Sears, Helen Elizabeth (L.A.)
Smith, Lenore Christine (Sci.)
Snyder, Helen Vernon (L.A.)
Stangeland, Helen Jane (L.A.)
Stansbury, Norman Claudius (B.A.)
Stritch, Irene Isabel (L.A.)
Strohl, Wellington M. (Engr.)
Strother, Charles Reddell (L.A.)
Sutherland, Anette Ora F. (Sci.)
Tadlock, Ruth Violet (L.A.)
Westberg, Frederick H. (B.A.)
Wetherell, Russell (L.A.)
Williams, Ward DeWitt (L.A.)
Wirth, Henry Edgar (Sci.)

SECOND SOPHOMORE HONORS

Angus, Dulcie Alberta (L.A.)
Bailey, Florence Miriam (Sci.)
Beeson, Paul Bruce (Sci.)
Bergstrom, Charlotte Maryann (Sci.)
Borgeson, Gerda Teresia (L.A.)
Borgeson, Jennie Olivia (L.A.)
Brandt, George (B.A.)
Brown, Pauline (L.A.)
Butt, Donald, Ritchie (L.A.)
Coln, Mildred (L.A.)
Condon, Robert Wilkins (For.)
Corbett, Helen Alberta (L.A.)
Coughlin, Margaret Mary (L.A.)
Cram, Jack Randolph (L.A.)
Crothers, Muriel Adeline (L.A.)
Durham, Howard E. (L.A.)
Engel, Ernest Dirck (Engr.)
Falck, Julius Bernard (L.A.)
Fenton, Henry Root (L.A.)
Fish, Vynor Starr (L.A.)
Flanagan, George Clemens (For.)
Fleming, Glenn B. (L.A.)
Fletcher, James Vertner (L.A.)
Fragen, Nathan (Engr.)
Furey, Frances Clare (L.A.)
Ghisigione, Maybelle Maria (L.A.)
Gilmer, Mary G. (Mrs.) (L.A.)
Golden, Constance (B.A.)
Gould, Marie Louise (L.A.)
Gullick, Margaret (L.A.)
Jones, Dorothy Adelaide (L.A.)
Karr, Day Payne (L.A.)
Layton, Clarence Elmer (L.A.)
Lash, Anna Viola A. (L.A.)
Lippincott, Crispin (L.A.)
Louie, Stanley (Pharm.)
McElhaney, Marie L. (F.A.)
McKenney, Margaret (L.A.)
McLaughlin, Catherine (L.A.)
McLeod, Sarah Hammond (L.A.)
McPherson, Mildred (F.A.)
Manion, Joseph Blimey (B.A.)
Markus, Edythe Joyce (L.A.)
Miller, Henry Augustus (B.A.)
Miller, Hortense Hickman (Sci.)
Nickell, George Thomas (L.A.)
O'Meara, Erma Kathryn (L.A.)
Porter, Robert Dickey (Engr.)
Rattray, Marjorie Elizabeth (Sci.)
Rauschert, Bryan L. (Engr.)
Rawson, Frances I. (F.A.)
Russell, Betty (F.A.)
Scholl, Miriam Grosse (L.A.)
Sey, Harriet Ann (L.A.)
Slipper, Lorna Elizabeth (Journ.)
Suffel, William Ewart (L.A.)
Tippett, Wilma (F.A.)
Tripp, Audrey Caroline (L.A.)
Vaa, Lawrence Edwin (Engr.)
Wagner, Robert H. (Engr.)
White, Ronald Cedric (B.A.)
Willigar, Florence Merrie (Sci.)
Wilson, Thelma Lydia (L.A.)
Abel, Marian Jeannette (L.A.)
Allen, Flora Sophie (F.A.)
Allen, Josephine Elizabeth (Sci.)
Altick, Grace Marie (F.A.)
Austin, Lucia Catherine (L.A.)
Ayers, Mildred Claire (F.A.)
Bailey, Raymond Lull (L.A.)
Balcom, Maurice C. (L.A.)
Bargmeyer, Ernest Gerard Henry (Engr.)
Barthell, Russell William (L.A.)
Bartley, Bruce Edson (L.A.)
Bass, John Milton (B.A.)
Bayly, Esther Rose (L.A.)
Benediktson, Herdis Gudrun (L.A.)
Bennett, John Leonard (L.A.)
Bourke, Edward Richard (F.A.)
Bower, Mary Elizabeth (L.A.)
Bradburn, George Burnett (Pharm.)
Brady, Anna Louise (L.A.)
Bresnan, Rose Amelia (L.A.)
Brown, Dorothy Margaret (Sci.)
Bushell, Donald Gair (L.A.)
Butler, Maurice Conklin (L.A.)
Campbell, Una D. (L.A.)
Cartano, John D. (L.A.)
Caughlan, John G. (L.A.)
Coats, Robert Roy (Mines)
Codling, Jack William (Pharm.)
Connick, Edwina Frances (L.A.)
Copenhagen, Helen M. (Sci.)
Curtis, William Long (Sci.)
Dahlman, Margaret (L.A.)
DeGarmo, Paul Ernest (Engr.)
DeLacy, Emerson Hugh (L.A.)
Delauvrenti, John (B.A.)
Deyette, Catherine (L.A.)
Dingle, John Holmes (Pharm.)
Donahue, Marion Mary (L.A.)
Duff, Alec (L.A.)
Duncan, Marian Agnes (F.A.)
Dunseath, Clifford Leroy (B.A.)
Duvall, Lois Irene (L.A.)
Ellis, Muriel S. (L.A.)
Fickel, Doris (L.A.)
Fields, Elise Grace (L.A.)
Flint, Dorothy June (Sci.)
Ford, Edwin Gilliard Jr. (L.A.)
Foster, Elizabeth Jane (L.A.)
Frazier, James Wood (L.A.)
Freeman, Jack Dixon (L.A.)
Frost, Pearl Dorothy (F.A.)
Frost, Dorothy Martha (L.A.)
Galt, Donald S. (Engr.)
Gandy, Ellen Margaret (L.A.)
Gill, Lewis Pressley (B.A.)
Ginger, Grace M. (L.A.)
Godfrey, Nellie Jane (Sci.)
Goings, Dwight Delton (B.A.)
Gordon, Blanche (L.A.)
Grier, Elizabeth (Sci.)
Grimes, Nancy Virginia (L.A.)
Guernsey, Charles E. (B.A.)
Guth, Earl (Pharm.)
Hadley, Elsie Jane (B.A.)
Hall, Calvin S. Jr. (L.A.)
Hamley, Frederick George (L.A.)
Hanna, Ralph Wesley (L.A.)
Hansen, Carl Christian (Engr.)
Harriss, Isabel (L.A.)
Harrison, Orpha Helen (F.A.)
Hazel, George Ralph (B.A.)
Hedgcock, Howard Wm. (L.A.)
Hegg, Agnes Constance (F.A.)
Hertsche, Marjorie Adelaide (L.A.)
Hicks, Retha Ann (L.A.)
Hile, Mary Elizabeth (F.A.)
Hill, Anne Katherine (F.A.)
Hillebrecht, Elsa Lois (Pharm.)
Hinkle, Van Ronald (L.A.)
Hinman, Gail Hamilton (L.A.)
Hirakawa, Joe T. (L.A.)
Hodgson, Dorsey Dwight (F.A.)
Hoshino, Helen Hideko (Pharm.)
Hulet, Howard Frank (B.A.)
Igersrud, Iver (Sci.)
Ingham, Thomas Reed (Sci.)
Ireland, Cornelia (L.A.)
Jack, Thomas Malcolm (Engr.)
Jackson, Earl William (L.A.)
Johnson, Einer Ernest (Pharm.)
Johnson, Eleanor Mildred (Sci.)
Johnson, Mildred Emmeline (F.A.)
Johnson, Nettie Ruth (Sci.)
Johnson, Florence Evelyn (Sci.)
Jolley, Irving (Sci.)
Jones, Ivar (Pharm.)
Jones, Richard F. (B.A.)
Katzenmeier, Rosalie D. (L.A.)
Keller, Jack Daniels (L.A.)
Kellogg, Ruth Adelaide (L.A.)
Kenyon, Margaret Thorp (Sci.)
Kernohan, Frank P. (F.A.)
Kettenring, Fred McLean (Mines)
Killen, Evelyn Frances (L.A.)
Kinney, Gladys Virginia (B.A.)
Lee, John Hawkins (L.A.)
Lehde, Constance E. (L.A.)
LeSourd, Francis Ancil (B.A.)
Levy, Richard Roger (B.A.)
Lewis, Margaret Ruth (L.A.)
London, Jessie Brooks (L.A.)
Long, Katherine Scott (L.A.)
Lukes, Janet Elizabeth (L.A.)
McCormick, Wilda May (B.A.)
MacDonald, Charlotte H. (L.A.)
McDonald, Phyllis (L.A.)
McDowell, Dan Wallace (Pharm.)
McMath, Margaret M. (L.A.)
Degrees Conferred 1927

McReavy, John Morgan (B.A.)
Mackey, Jack Morgan (Engr.)
Macmillan, Paul Samuel (L.A.)
Miller, Dorothy Fay (B.A.)
Mitchell, Katherine Gertrude (L.A.)
Morbeck, Donald Charles (B.A.)
Myers, Abraham Francis (Engr.)
Nakaseko, Kazu (F.A.)
Nelson, James Cecil (Sci.)
Nicholson, Mary Irene (B.A.)
North, Jeanette H. (Sci.)
Oles, Dorothy Virginia (L.A.)
Olson, Harry LeRoy (L.A.)
Olson, Leone Gertrude (L.A.)
Patricelli, Llibero (Pharm.)
Pfisterer, Elsa (L.A.)
Phillips, Joseph Clayton (L.A.)
Phillips, Lillie Irene (L.A.)
Plymire, Reginald Floyd (Engr.)
Potts, Helen Lea (L.A.)
Rahe, Florence Marguerite (L.A.)
Rasmussen, Elmer Edwin (L.A.)
Raudenbush, Lenora Marie (B.A.)
Raudenbush, Nellis Louella (B.A.)
Reeves, Elizabeth A. (F.A.)
Reno, W. Porter (L.A.)
Richards, John G. (L.A.)
Riches, Doris Elizabeth (B.A.)
Robb, Betty Stewart (L.A.)
Rowe, Helen Edna (F.A.)
Rutherford, Dorothy A. (L.A.)
Schenk, Elizabeth (L.A.)
Scott, Dorothy Allen (L.A.)
Scott, Winston (Sci.)
Seabury, Helen V. (L.A.)
Shagren, Margaret P. (L.A.)
Shanstrom, Helen M. (L.A.)
Smith, Thomas Stewart (F.A.)
Snyder, Carolyn Catherine (Sci.)
Sned, Katherine F. (B.A.)
Spencer, John (B.A.)
Sorensen, Oscar S. (Sci.)
Stevens, Edward Francis Jr. (Engr.)
Stover, Lois Cornelia (L.A.)
Stub, Sylvia Antonia (L.A.)
Stratton, Doris Virginia (L.A.)
Striker, Kenneth Louis (F.A.)
Sweet, William Herbert (Sci.)
Swanson, Carl Martin (L.A.)
Tutte, Mavis Jaquelin (L.A.)
Welch, Helen Elizabeth (F.A.)
White, James Aubrey (Engr.)
Whitley, Ruth Lillian (Sci.)
Winston, Alexander Porter (L.A.)
Woodyard, John Robert (Engr.)
Wolf, Marjorie M. (F.A.)

COMMISSIONS IN THE OFFICERS’ RESERVE CORPS,
UNITED STATES ARMY

SECOND LIEUTENANT, INFANTRY

Russell Stanley Bunker
Edwin Warner Chopson
William Henry Churchwell
John Henry Harris, Jr.
William Elmer Hempstead
Eugene Stayton Hicker
Carl August Kilgas
William O. Lea
Andrew Cook McGill
Halbert Sutliff Moran
Lewis Knowles Osborn
Lawton Mickell Patten

SECOND LIEUTENANT, COAST ARTILLERY

Arthur David Cook
Erline Horn
Max Dana Isom
Nels E. Johanson
Henry Burton Joseph
John Donnells Mileye
Sedric Arthur Payette
Clarence N. Roose
Claus Henry Stamm
Paul Jaromer Strizek
Russell Vincent

SECOND LIEUTENANT, AIR CORPS

Lawrence Theodore Broeren
Duane Monroe Covington
Edward Willochby Davidson, Jr.
Earl Wilson Goff
Harry Henke, Jr.
Melvin Alfred Jenner
Ted Keith
William Stanton Martin
Ward William Roney
Clayton Allen Scott
Frederic Eastland Templeton
THE LORETTA DENNY FELLOWSHIPS
Victor Elliott Wellman (Chemistry)
B.A., Phillips University, 1924
M.S., University of Washington, 1927
Joseph Cohen (Sociology)
B.A., University of Washington, 1926
Alice Lathrop Gundlach (Philosophy)
B.A., University of Washington, 1924
M.A., University of Washington, 1926
Alternates
Emmett Theodore Bodenberg (Botany)
B.S., Capital University, 1925
M.S., Ohio State University, 1926
Lawrence E. Karrer (Electrical Engineering)
B.S. in E.E., University of Washington, 1927
Irving Kittell (Mathematics)
B.A., South Methodist University, 1924
M.S., University of Illinois, 1926

THE ARTHUR A. DENNY FELLOWSHIPS
Thomas William Bibb (Education)
B.A., William Jewell College, 1908
M.A., University of Washington, 1927
Max Donald Cornu (English)
LL.B., University of Washington, 1922
M.A., University of Washington, 1926
Norman Claude Perring (History)
B.A., University of Washington, 1927
Clementine Evans (Pharmacy)
B.S. in Pharm., University of Washington, 1927
John Maurice McAneny (Mining Engineering)
B.S. in Ch.E., University of Washington, 1927

FELLOWSHIPS IN THE COLLEGE OF MINES AND THE NORTHWEST EXPERIMENT STATION, UNITED STATES BUREAU OF MINES
(For 1926-1927)
Vance Cartwright (Ceramics)
B.S. in Ch.E., University of Washington, 1926
Howard Harry Mansur (Ceramics)
B.S. in Ch.E., University of Washington, 1926
Howard Smith Davis
B.S. in Min.E., Pennsylvania State College, 1925

THE DUPONT FELLOWSHIP
Meryl Deming
Scholarships and Prizes, 1927

The Bon Marché Industrial Fellowship
Hazel May Ren noe (1926-1927)
Laura Betty McBrien (1927-1928)

The Effie I. Raitt Research Fellowship in Nutrition
Alice Sherfy Houston (1926-1927)
Jessie O'Keefe (1927-1928)

The Grace G. Denny Research Fellowship in Household Budgeting
Marie Madden Power (1926-1927)

The Isabella Austin Memorial Scholarship
Eileen Belden

The Gamma Phi Beta Scholarship
Gudrun Eide

The Frederick and Nelson Scholarships
Lela May Ketchum
Clarence Ray Suffron, Jr.
Alternates
Nola Ethel Muck
Charles J. Johnston

The Venino Scholarship in Music
Leonardeen Miller

The Mu Phi Epsilon Scholarship in Music
Eleanor Hale
Kathleen Kane

The Beecher Kiefer Memorial Scholarship in Music
Samuel Couch

The Ladies Musical Club Scholarship
Rachel Mowry

The Paul Karshner Memorial Scholarships
Margaret Linde
Talbot Hartley

Puyallup University of Washington Alumni Scholarship
Robert Brown

The P. E. O. Scholarship
Ethel Lois Wilkie

The Scholarship to the Fontainebleau School of Fine Arts in France
Jack Woodmansee

The Duncan Fuller Memorial Scholarship
Jack Paterson

The Judge Alfred Battle Prize in Public Speaking and Debate
Edward Berolski
Charles Strother
University of Washington

THE FRATERNAL ORDER OF EAGLES PRIZE
Reno Silliman Samuel Harby

THE PHILO SHERMAN BENNETT ESSAY PRIZE IN POLITICAL SCIENCE
Story Birdseye

THE CARRIE E. PRIZE IN LAW
Orville C. Hatch, Jr.

THE CARSTENS AND EARLE ESSAY PRIZES IN BUSINESS ADMINISTRATION
Russell Rogers Robert L. Hadsell David Templeton Harlan W. Gorham

THE CHARLES H. DEBB PRIZES IN ARCHITECTURE
Waldo McKinney Paul Thiry
Jack Woodmansee

THE GLADDING-MCBEAN TERRA COTTA COMPANY PRIZES
George Nakashima Oliver Noji Wayne Deemer

THE CHARLES LATHROP PACK FOUNDATION PRIZE IN FORESTRY
Gus Arneson

THE OMICRON NU PRIZE IN HOME ECONOMICS
Mertie Willigar

THE PACIFIC COAST ADVERTISING CLUBS ASSOCIATION
Alfred Goldblatt

THE ITALIAN COMMERCIAL CLUB GOLD MEDAL FOR EXCELLENCE IN ITALIAN
Tadao Kimura Helen H. Rhodes

THE LEHN AND FINK GOLD MEDAL FOR PHARMACEUTICAL ESSAY
Ruby Hirose

THE AMERICAN PHARMACEUTICAL ASSOCIATION GOLD MEDAL FOR EXCELLENCE IN PHARMACY
Lillian Klein

THE AMERICAN INSTITUTE OF ARCHITECTS MEDAL FOR DISTINCTION IN DESIGN
Hugo Osterman

THE FREDERICK AND NELSON SMALL HOUSE COMPETITION
Donald McDonald Clifford Clausen LaMonte Shorett

THE LINTON MEMORIAL AWARD
L. W. Tobey

JUNIOR MILITARY PRIZE
Bernard Lowenstein

Prizes Not Awarded

THE JUDGE KENNETH MACKINTOSH PRIZE IN DEBATE

THE JAGGARD PRIZE IN LAW

THE A. MERLINO PRIZE
DEGREES
CONFERRED JUNE 11, 1928

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

August, 1927

Aalbu, Dorothy
Agbayani, Pedro B.
Anderson, Louise May (cum laude)
Arnold, Georgia Vera
Attebery, Hester Josepbine
Ayers, Ethel Florence (cum laude)
Ballaine, Wesley Charles (cum laude)
Blair, Lynette (magna cum laude)
Brody, Leon David
Carter, Nura Dorothea
Cohn, Rose Marie
Cole, Sylpha Josephine
Cummings, Blanche Mary
Dickson, Belle Lucille
Elliot, Stanley Minto
Genauer, Sam
Godsey, Bess Helsel
Gorham, Helen Margaret
Grant, Jeanie Marion
Hamblen, Ruth Dickie
Hawkins, Hazel Marion
Henke, Harry, Jr. (cum laude)
Henriot, Jane Calenet (cum laude)
Hermann, Ida M.
Hughes, Martha Ellen

Johnston, Margaret Edna
Kerry, Albert S., Jr.
Lambrecht, Lillian
Miller, Amalia Frances
Monday, Sybil
Monsen, Hildur Stahrfoss
North, Stella M.
O'Brien, Elizabeth Marie
Oleson, Mabel Helena
Olson, Warren E.
Osten, Winnifred
Peterson, Sophie
Roberts, Ida Streete
Rothaus, Marie Theresa
(Sister Mary Rose de Lima, O.S.D.)
Scanzon, Anna Virginia
Scott, Elsie Margaret
Stone, Ethel Viola
Talbot, Ernest Reeve
Thole, Marjorie Frances
Ulsaker, Ida Mathilda
Wahl, Leonora Marie
Warner, Grace Elizabeth
White, Rosalind F.
Wilson, Mary King

December, 1927

Adams, Ruth Marjorie
Anderson, Larz
Beckwith, Frances Kay
Beers, Frank Troxell, Jr.
Bogert, Madeline Vanden
Bolles, Thomas Darley
Brown, Margaret Parkin
Davis, George Swanton
Dusenberry, Inez Mae
Garden, Kathryn Louise
Garner, Louella
Garrott, Jean
Hampton, Jane Grant
Huff, Elizabeth
Kelley, Albert Henry
Kwapil, Dorothy Louise
Latimer, Vernon Guthrie

Marsh, Harold Burton
Miller, Eloise
Nakagawa, Yoriaki
Neikirk, Claire Eugénie
Neill, William James
Payse, Doris
Pearson, Mabel Didrikson
Person, Henry Axel
Scoville, June Idylne
Shank, Edward Allan
Smith, Katherine Macrae (magna cum laude)
Soth, James Tom
Thompson, James Arthur
Van Stralen, Francis John
Ventura, Jose

Graduates are listed according to the dates on which they received their degrees.
Arnold, Evert Frank
Backland, John, Jr.
Bunje, Emil Theodore Hieronymus
Conway, Jack
Dishnow, P. Sylvia
Erickson, Roosevelt
Greely, Myril Jay
Haglund, Ivar
Hanley, Mary Veronica
Henry, Florence (cum laude)
Johnson, Grace A. F.
McNaughton, James Woodruff
Mayer, Alexander

Mesher, Mose
Nichols, Jane
Nissley, Maria Anne
Raichle, Marcus S.
Riste, Victor Emerson
Savage, George Milton, Jr.
Shannon, Henry Alvies
Swan, Nora J.
Townsend, Paul Allerton
Walker, Margery Katherine
Whitecomb, Rollo R.
Zillman, Lawrence John (magna cum laude)

Adamson, Anna Robinson
Anderson, Elizabeth M.
Anderson, C. Ermont
Anderson, Esucelene
Ashley, Wanda Josephine
Austin, Helen

Bache, Hazel K.
Bare, Margaret Hope
Beckett, Eleanor May (cum laude)
Bell, Hazel Lamar
Bloomfield, E. Jervis
Blum, Robert
Botsford, James Lawrence (cum laude)
Boyd, Jennette Dorothy
Brandomier, Blanche Wilhelmina
Bransford, Thomas Lowe (cum laude)
Bringloe, Marguerite Elizabeth
Brisbin, Wilma
Brix, Harold Herman
Brownell, Ruth
Bungay, Ellen Louise
Bunge, Winifred Mathilde
Burnett, Mariana Ruth (cum laude)
Burns, Harry Hamilton

Eastwood, Emily Louise
Edwards, Helen
Ehrhardt, Dorothy Chace
Eide, Gudrun Cecelia
Embee, Mary John
Endres, Teresa
Estey, Emily Smith

Featherstone, Harriet
Fisher, Kenneth Robinson
FitzGerald, John Loyola
Fjarlie, Agnot Jeannette
Folsom, Morill Frederic
Fonacier, Guillermo Cristobal
Franke, Elizabeth Louise
Freeman, Abe
French, Raymond Theodore
Freund, Julia Clara (magna cum laude)

Gaffney, Ruth Avanelle
Garbe, Frank Arthur
Garrecht, Caroline Teresa
Gates, Alice Elizabeth (magna cum laude)
Gemmell, Nina Eleanor
George, Evaline Beryl
Gillespie, Margaret R.
Glenn, Wesley Stacey (cum laude)
Goldblatt, Alfred
Goldblatt, Helen Bertha
Good, Lydia May
Gowen, Sylvia Mary
Graham, Elizabeth Emily
Greenwood, Lucille
Guttormsen, George Charles

Hagen, Evelyn
Hansen, Inga Marjory
Harris, John Franklin
Harsch, Orlena Frances
Hastings, Jessie Lou
Herren, Naomi Elizabeth
Higgins, Myra Marie
Hill, Martha Emily
Hill, F. Way Woody
Hillyer, Theo Frances
Hilton, Maud Helen
Hirschbuhl, Katherine Mary
Hubbell, Myra Leslie
Hunt, Frances Clarke
Hutchins, Lewis R.

Iversen, Lyle Louis

Jacobs, Maxine Rosalie
Janson, Raymond Helm
Jennings, Elizabeth
Johns, Harold Nash (cum laude)
Johnsen, Pauline Bernice
Johnson, Alida Ruth
Johnson, Anne Irene
Jorgensen, Erna Martha

Kassebaum, Karl Frederick (magna cum laude)
Kelly, Virginia Villars
Kent, Omer James
Kimura, Tadao (cum laude)
King, Esther
Kinsky, Ronald Clarke
Kirker, Ruth Sutton
Knight, Annalou
Knight, Homer Tibbetts
Knutson, Marie Louise
Kramer, Ferdinand

LaPlant, Mary
Lauer, Edna W.
Leaf, Grace Mildred
Lillquist, Elma Carolyn
Longenbaugh, May Moore
Ludington, Kathryn Lee
Lumbard, Roy Morse
Lund, Esther Ragnhild
Lynch, Elizabeth

McAnally, Carrie
McCullum, Donald Sinclair
McCortney, Francine Lee
McDonald, Alice Isabel
McDonald, Georgene
MacEwan, John Dougald
McGill, Ruth
McSorley, M. Lillian
Main, Frank Whitney
March, Martha Jane
Mason, Frederick Pixley
Miller, Helen Edythe
Milward, Doris Lilian
Miner, May

Mitchell, John George
Moore, Bryant Willard
Morgan, Helen Ethel (cum laude)
Morrison, D. Grant
Morry, Lucile Katherine (magna cum laude)
Moser, Stephen Benjamin
Murray, Margaret Elizabeth
Nahhas, Emmeleine Edith
Nelson, Helen Clare
Ness, Conrad Christian
Norie, Martha Gertrude

Oliver, Marguerite Josephine (cum laude)
O'Mahony, Mary Helene
Opstad, Edwin R.
Parr, Katherine Eugenia
Parrington, Louise Wraithal
Patz, Sidney
Peterson, Arleen May (cum laude)
Petkovits, Xenia Patricia
Phelps, Hugh Carnes
Polson, Genevieve Corine
Potter, Helen Agnes

Raban, Adelyne F.
Ramstedt, Mary
Ratliff, Coralie Esther
Reid, Alice Mildred
Reinhart, Madeline C.
Rickard, Richard Manderville
Rohrbough, Wanda Marie
Rose, Jean Margery
Rose, Julia Florence
Rosenstein, Sophie (cum laude)
Ruddell, Hazel
Ryan, Grace Henrietta

Saunders, Virginia
Scheitlin, Frieda (cum laude)
Sears, Edith Katherine
Seijas, Amador
Shepard, Evelyn Elizabeth
Sherman, George Witter
Smith, Adelia Louise (cum laude)
Snyder, Loyal Truman Rhodes
Stafford, Elizabeth
Stewart, Una Andrew
Stidd, Ruth Margaret
Stone, IdA Sue
Stybor, Winifred Marie
Sugimachi, Yaeimitsu
Swan, Clarice
Thomson, Henry E.
Toner, Martin Emmett
Tower, James Allen (cum laude)
Tyler, Albert Wilson, Jr.
Underwood, Irma Victoria
Vandercook, Esther
von Hellens, Glory
Walker, Phyllis
Wall, Kathlene Darden
Wang, Laura K.
Warner, Mary
Watt, Phoebe
Welch, C. Douglass
Whiteleather, Hazel Glenne

Winegar, Roger McDannell
Woelfel, Paul Grimaux
Wolz, Elise Amalie
Wood, Edna Maurine
Wood, Laura-Linda Falconer
Woodworth, Alice Anna
Wortham, Robert Allen
Zimmerman, Frances (cum laude)

COLLEGE OF SCIENCE

August, 1927

BACHELOR OF SCIENCE

Adams, Julius Gordon
Beek, John, Jr.
Holmes, Charles Merton
Le Neve, Nina Faith
Olson, Avary Herman

Pool, Stephen C.
Pugsley, Frances
Thompson, Randall Leslie (cum laude)

BACHELOR OF SCIENCE IN GEOLOGY
Jacobson, Duncan Andrew

BACHELOR OF SCIENCE IN HOME ECONOMICS

Clemmer, Ruth
Finseth, Karen Dorothy
Fox, Alta C.
Himes, Velma Violette
Jacobs, Winifred Ewell (summa cum laude)

Jones, Leola Grace
Near, Maxine
Patch, Esther ArLee
Slick, Opal M.
Van Tilborg, Elizabeth Dorciane

BACHELOR OF SCIENCE IN NURSING

Olcott, Virginia

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Abrams, Evelyn Violet

BACHELOR OF SCIENCE IN ZOOLOGY

Floed, Frances Margaret

Morgan, Marjorie Lillian

December, 1927

BACHELOR OF SCIENCE

Barnett, Mack F.
Broeren, Lawrence Theodore
Dawson, John Cecil
Fouts, Marcia Irma

Grahn, Edgar Rudolph
Moffitt, David Dwight
Pomeroy, Merritt Allan
Sanchez y Glifonea, Isabelo

BACHELOR OF SCIENCE IN HOME ECONOMICS

Andrews, Harriett M.
Degrees Conferred 1928

BACHELOR OF SCIENCE IN MILITARY SCIENCE
Vincent, Russell

BACHELOR OF SCIENCE IN NURSING
Hall, Lura Florence

March, 1928

BACHELOR OF SCIENCE
Atkins, Charles Burwell
Harris, David Maurice
Hoff, Ebbe Curtis (summa cum laude)
Hoff, Hebbel Edward (summa cum laude)

BACHELOR OF SCIENCE IN HOME ECONOMICS
Daggett, Annie Rachel
Eiffert, Opal Jean
Kleinlein, Esther Marie
Skagen, Cora Jean

June, 1928

BACHELOR OF SCIENCE
Adams, Sidney
Allen, Harvey Stuart
Barkley, Dorothy True
Chapple, Guernsey Phillips
Chatterton, Katherine W.
Churchward, Philip Edson
Cutter, Glen George
Dean, Florence Myrah (cum laude)
Eldridge, Una
Eng, Richard Tak
Forbes, Evelyn Gertrude (cum laude)
Greene, Henry Campbell
Hale, Warren W.
Hirschmann, Doris Joy
Kohlruss, Frederick J.
Lassek, Arthur Marvel
Leon, Gordon H.
McKay, Elizabeth Margaret
Marchand, Morgan Coble
Matsen, Roy
Miller, Hugh Kennedy
Montfort, Mary Leslie
Petersen, Alma F.
Phiifer, Lyman DeArmond
Schimke, Harold
Scott, Sara
Snidow, Beulah F.
Snyder, James L.
Torney, John Alfred, Jr.
Williams, J. Aloysius
Williams, Kenneth Thurman
Wolthausen, Raymond Charles
Woodin, Vernetta Diadamà
Zeeb, Kathryn Ardath

BACHELOR OF SCIENCE IN BACTERIOLOGY
Sogn, Harold Elmo

BACHELOR OF SCIENCE IN BOTANY
Jewett, Elsie Kristine

BACHELOR OF SCIENCE IN CHEMISTRY
Allison, Elton Roland
Anderson, Lucile
Dickinson, Lawton William
Long, James Glenn
Moore, Burta Louise
Semb, Balwen Arthur
Tilley, John Norman (cum laude)
**University of Washington**

**BACHELOR OF SCIENCE IN HOME ECONOMICS**

<table>
<thead>
<tr>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>Archibald, Nina Margaret</td>
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<tr>
<td>Bidlake, Florence Harriet</td>
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<tr>
<td>Blair, Sara Palmer</td>
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<td>Brewitt, Everilda</td>
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<td>Butt, Dorothy Heath</td>
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<td>Cory, Vilva Katherine</td>
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<td>FitzGerald, Florence Hortense</td>
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<td>Jessen, Christine</td>
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<tr>
<td>Jones, Elisabeth Spalding</td>
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<td>Kelly, Evelyn Lavene</td>
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<td>Libbee, Frances Alice</td>
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<tr>
<td>Morrison, Marjorie Elizabeth</td>
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<td>Parks, Goldie Sheets</td>
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<td>Parsons, Elizabeth Josephine</td>
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<td>Peterson, Elizabeth Catherine</td>
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<td>Potter, Ruth Antoinette</td>
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<td>Reichert, Marguerite Catherine</td>
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<td>Stickels, Carrie Elaine</td>
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<td>Swartz, Fanny Wintler</td>
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<td>Thode, Helen Virginia</td>
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**BACHELOR OF SCIENCE IN MATHEMATICS**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kenyon, Juanita</td>
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<td>Koth, Everett Francis</td>
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**BACHELOR OF SCIENCE IN MILITARY SCIENCE**

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Lauer, Charles Eugene</td>
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**BACHELOR OF SCIENCE IN NURSING**

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Greer, Jean Elizabeth</td>
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<td>Gustafson, Katherine Theodora</td>
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<td>Miller, Harriet Posey</td>
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<td>Sullivan, Ora Gertrude</td>
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**BACHELOR OF SCIENCE IN PHYSICAL EDUCATION**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Cook, Marjorie Jane</td>
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<tr>
<td>Dix, Florence</td>
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<td>Dudley, Dorothy Hale</td>
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<td>McMaster, Frances</td>
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<td>Morris, Clydene Lauretta</td>
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<td>Newman, Ruth Levens</td>
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<td>Pendleton, Dorothy Iris</td>
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<td>Scott, Ruth Loretta</td>
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<td>Tainter, Frances Miller</td>
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**BACHELOR OF SCIENCE IN ZOOLOGY**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Anderson, Andrew Leonard</td>
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<tr>
<td>Schunke, Gustave Bernard</td>
</tr>
<tr>
<td>Snoke, Albert Waldo (magna cum laude)</td>
</tr>
</tbody>
</table>

**SCHOOL OF EDUCATION**

**August, 1927**

**BACHELOR OF ARTS IN EDUCATION**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Andersen, Agnes Ruth</td>
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<tr>
<td>Atwood, Gertrude Mae Guild</td>
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<tr>
<td>Barker, Gertrude B. (cum laude)</td>
</tr>
<tr>
<td>Bloomer, Cecilia</td>
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<tr>
<td>(Sister Elizabeth Clare)</td>
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<tr>
<td>Brook, Alice Lee</td>
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<tr>
<td>Brown, Sarah Elizabeth</td>
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<tr>
<td>Burpee, Margaret P.</td>
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<tr>
<td>Button, Arthur Oscar</td>
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<tr>
<td>Chastain, Maude</td>
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<td>Dabney, Elmer Stratton</td>
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<td>Daniels, Mary</td>
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<td>Davies, Anne (cum laude)</td>
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<td>Dittmer, Clarence Clifford</td>
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<td>Durrwachter, Irma Martha</td>
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<td>Egbers, Mark Wayne</td>
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<td>Eidal, Otto Clarence</td>
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<td>Elder, Raymond Washington</td>
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<td>Flavin, Ruth Anne</td>
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<td>Forster, Crescentia</td>
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<td>(Sister Mary Clementine)</td>
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<tr>
<td>Fuller, Frances Olive</td>
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<tr>
<td>Grebe, Enid Anita</td>
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<td>Green, Kathleen Marian</td>
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<td>Hansen, Augusta</td>
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<tr>
<td>Harrison, Aldine Madele</td>
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<td>Howe, Ramel Elaine</td>
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<tr>
<td>Hutton, Evelyn Ida</td>
</tr>
</tbody>
</table>
Degrees Conferred 1928

Ihle, Thilda
Jones, Hannah
Keene, Mildred Yockey
Kelly, Genevieve
(Sister Esther Mary)
Knight, Rebecca Scott
Lake, Maria Lucile
Lloyd, Edna Beatrice
McDonald, Cecelia Marie
McGuinness, Charles D.
McIntosh, Elizabeth Orr
McKenzie, Earl Lincoln
Mitchell, Perry Howard
Moore, John H.
Morgan, Coral
Mullen, Loda Helen
Odegaard, Leonard Sylvester
Oliver, Egbert S.

Pearson, Anna Catherine (cum laude)
Pedersen, Thora H.
Purves, Neil H.
Robison, B. B.
Russell, Lelia M.
Sievers, Esther Elsye
Southard, Edna Lutz
Sullivan, Frankie
Taake, Yetevé Eames
Van Hoomissen, Anna Maria
(Sister Mary Veronica of Milan)
Webster, Florence Downend
Weymouth, Faye Caurice
Whaley, Milo Ballard
Whillans, Ellen
Wood, Esther Mary
Young, Catherine Augusta

BACHELOR OF SCIENCE IN EDUCATION

Fry, Iva Margaret
Furgeson, Leora V.
Geer, Willard (cum laude)
Hurd, Guy Winfield

Neale, Mary Ellen
Stowell, Ernest Paul
Whittaker, Jack Ernest

December, 1927

BACHELOR OF ARTS IN EDUCATION

Freeman, Trunette Aust
Gillespie, James Clark
Glanville, Arthur Tennyson
Knutson, Knute J.
Le Blanc, Ethel Mildred
Neilsen, Hazel Emma
Posey, Naomi-Mae

Ryan, Mary (Sister Gabriel Ryan)
Smith, Thomas S.
Stout, Maxine
Thune, Alta Lillian
Van Zante, Jean
Wallace, Marjorie
West, Martha Alice

BACHELOR OF SCIENCE IN EDUCATION

Schusman, Dorothy Jean

March, 1928

BACHELOR OF ARTS IN EDUCATION

Calder, Mary Etta
Cederberg, Theodore
Domingo, Liberato S.
Hynes, Philomena Lillian
Leach, John Harvey (summa cum laude)
Miller, Carrie Lowry

Neal, Russell Leroy
O'Connell, Caroline (Sister Margaret of St. Dominic)
O'Hara, William James
Parker, Alfred
Stuber, Esther Elouise

BACHELOR OF SCIENCE IN EDUCATION

Hurlburt, Frances Myrtle
Hurley, Coila Pearl
University of Washington

June, 1928

BACHELOR OF ARTS IN EDUCATION

Albin, Vera G.
Alcabedas, Buenaventura P.
Allez, George Clare
Anderson, Elmer Jerome
Anderson, Ruth Agda
Baker, Dorothy
Berlin, Helen Marie
Blauert, Paul Henry
Bower, Marie Patterson
Boyd, Helen
Breakey, Glenn Maurice
Brickert, Josephine E. (magna cum laude)
Brown, Leela May
Camp, Eva Marshall
Case, Katherine Marie
Casey, Mildred Laura
Chute, Esther H.
Craig, Genevieve Adelaide
Crowley, Mary Louise
Culver, Mary L.
Darr, Dorothy
Davis, Mamima Wilson
Dedrick, Grace
Derrah, Edward A.
de Soto, Alexander Phillips
DeYarmon, Ada L.
Dillon, Sue
Fairbanks, Eugenia
Fisher, Grace D. Hoover
Fiskin, Ruth Kerr
Frisbie, Chester Calvin
Glenn, Harry Calvin
Goettling, Gladys Whitney
Gray, Rose
Griggs, Jay Howard
Hall, Margaret Olive
Hartney, Margaret Ruth
Hatch, Charles Edward
Herren, Dora Smith (cum laude)

Jeffries, Mary Ethel
Kelleher, Marion Julia
Kenyon, Ethel Mae
Lee, Burling Vincent
Lee, Evelyn Rita
Lewis, Hannah Whiting
Lohse, Blanche Louise
Lyst, Miriam
McLean, Margery Elizabeth
Martin, Robert Ray
Meeks, Ruby
Moller, Helen Badgley
Monroe, John R.
Porter, Helen Annah
Ramos, Manuel Somera
Reinken, Christine
Richardson, Mary Joyce
Riley, Mary Elizabeth
Rousch, Minnie Aubrey
Savage, Anne Elizabeth
Savage, Audrey Christene Helene
Shipley, Dorothy
Siderfin, Dorothy Gwendolyn
Steed, Mable Ann
Stoll, Lorena Dorothy
Takai, Sumiko
Thomas, Ferne Agnes
Tucker, Margaret
Verney, Louise Estelle Summers
Walsh, Inez Josephine
Walsh, Mildred Ursula
Waltz, Margaret Elizabeth
Warde, Gertrude Elizabeth
Whitnell, Helen Margery
Willer, Sonia June
Wilson, Earl Richard
Worman, Eugenie Hutchinson
Wright, Miriam Frances
Wright, Paul Wernitch
Yeck, Lois E.

BACHELOR OF SCIENCE IN EDUCATION

Clark, Evelyn Gordon
Guyer, Dorothea Pemberton
Hall, Alvin Morris
Jensen, Lucie Eleanor
Kunde, Norman Fredrich

Ouren, George Frederick (cum laude)
Skalley, Kathleen
Travis, Ira Merle


Degrees Conferred 1928

COLLEGE OF FINE ARTS

August, 1927

BACHELOR OF MUSIC

Hyland, Mary Adelaide
Olson, Gladys Judith

Pannell, Shirley Gwendolyn

BACHELOR OF FINE ARTS

Brown, Jane
Johnston, Marjorie Dean
McClain, Dorothy Elizabeth

Painter, Esther Elvira
Washington, Lillian M.

BACHELOR OF ARTS IN DRAMATIC ART

Glasgow, Marian Joyce

Macdonald, Aristelle

December, 1927

BACHELOR OF MUSIC

White, Lorna Carolyn

BACHELOR OF FINE ARTS

Gunnell, Mary Brunot

June, 1928

BACHELOR OF ARTS IN MUSIC

Polet, Emily P.
Potter, Dorothy Anne

Walton, Florence Elizabeth
Wilson, Helen Grace

BACHELOR OF MUSIC

Arneson, Gladys Amelia
Avery, Dorotheda Patricia
Balsiger, Helen Margret
Barker, Edna Thiele
Barnhart, Margaret Helen
Bloxom, Virginia
Bromberg, Bernice
Burgeson, Elna Marye (cum laude)
Callender, Marguerite Weston
Chester, Helen Elizabeth
DeWitt, Ruth Evelyn (magna cum laude)

Dunham, Earline Viola
Dunn, Lucy
Flatebo, Helga
Graves, Virginia Sheffield
Greenberg, Eloise
Gregg, Dorothy Dean
Harrison, Helen Barlow
Hartley, Zelma Jeanne
Head, Pauline
Hearty, Aileen Louise

Hedges, Elizabeth M.
Hepperle, Charlotte
Hoska, Helen Rogene
Huff, Elizabeth Naomi
Johnson, Elizabeth Harriette
Kretzinger, Helen Maury
Myhre, Clara Margaret
O'Keane, Frances Eleanor
Peterson, Anabel (cum laude)
Schwarz, Eleanor Margaret
Scott, Mary Katharine
Shaw, Marian Estelle
Sicade, Sarah Belle
Smith, Alverna Rowena
Smith, Dorothy Louise
Terwilliger, Beulah May
Tesack, Kathryn Elizabeth
Weisberg, Hildegarde
Wilson, Evelyn Minnie (magna cum laude)

Wooden, Retta Elberta
University of Washington

BACHELOR OF ARCHITECTURE
Bellamy, Tenny Francis
Chester, William G.
Loners, Harry
Noji, Oliver Katsu
Russell, George Vernon

BACHELOR OF FINE ARTS
Arnold, Winifred Haynes
Beckmann, Jewel Melba
Compton, Ann Loretta
Deeringer, Helen
Eiffert, Dorothy Fae
Field, Mary Louise
Hall, Annabel Eleanor
Hanson, Helen
Harris, Marie Gertrude
Hinckley, Kathryn
Howell, Iris Claudia
Koger, Dorothy Mae
Kroetch, Gertrude Claire
Mallett, Mary Catharine
Nyman, Rose M.
Palpal-latoc, Paul P.
Patten, Lawton Mikell
Pearson, Mabel Valentine
Schoppe, Mary Howat
Smith, Frances Elaine
Taylor, Kyle Eldon (summa cum laude)

BACHELOR OF ARTS IN DRAMATIC ART
Brandt, Evelyn Lila
Lunn, Lois Josephine
Spear, Helen Elizabeth
Williams, Helen Goss

COLLEGE OF ENGINEERING

August, 1927

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
Porter, Charles Alexander
Wood, Lewis Clarke

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Bakeman, Charles T.
Hunter, Stephen Carroll
Nelson, Paul Harry

BACHELOR OF SCIENCE (COMMERCIAL ENGINEERING)
Olson, Earl Stanley

December, 1927

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
Thompson, Claude Sims
Wright, Calvert Charles

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Haner, Victor Cecil
Johnson, Oliver Bertrand

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Darragh, James B., Jr.
Gammell, John
Kelley, Warren Thomas
Kossiakoff, Ivan Timothy
Manlucu, Alfonso Baluyut
Morchodoff, John Alexis
Yabroff, Elias
Degrees Conferred 1928

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
Nelson, Henry O.

BACHELOR OF SCIENCE (COMMERCIAL ENGINEERING)
MacLean, Duncan Gladstone        Rivera, Andres Dandan

March, 1928

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Benedict, Arthur Harold

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Barker, Robert W.                Horn, Erling
Blugerman, Leonide N.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
Cornils, Thomas (magna cum laude) Emig, John William
Duff, Edmund Egbert (magna cum laude) Peacock, Dan Conley, Jr.

BACHELOR OF SCIENCE (COMMERCIAL ENGINEERING)
Kreger, George Henry

June, 1928

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
Hauff, Harald Allen                Phillips, Porter M.
Judkins, Malcolm Faulknor         Rodgers, Marcus Daly
Lang, Joseph W.                  Todd, Seldon Page
Nicholson, Walter Allen

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Carter, Leo Alexander (cum laude) Koerner, Courtland Lewis
Dobrovolsky, Alexander N.         Morse, Roy Winchester
Jack, Eugene Clarence             Raine, William Thorwald
Khvoroff, Victor Ivanovich        Rutledge, Charlie Edwin

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Bernhard, Carl William Herbert    Krause, August Lawrence
Bolster, William (magna cum laude) Lewis, Edward McLean
Butt, Charles N.                  McClaren, Ralph Herbert
Doi, Minari                      Mallett, John (cum laude)
Duryee, Schuyler Leverich        Nedelsky, Leo (magna cum laude)
Giovanini, Frank                 Okada, Riichi
Griadasoff, Leonid Ivan          Olson, Kermit
Jenner, Evalene                  Palmer, Lawrence
Jensen, George Leslie            Park, John Howard
Joyce, R. Wallace (magna cum laude) Payette, Sedric Arthur
Keith, Ted                      Peterson, Arthur Corbett, Jr.
                                Quistorff, Wallace W.
                                Radin, Carl
                                Roper, Otis
University of Washington

Smith, Herbert H.
Stuermer, Ernest
Swenson, Carl Russell
Togo, Yone

Bachelor of Science in Mechanical Engineering
Byles, Elvin
Castor, Thomas Davis

Bachelor of Science (Commercial Engineering)
Asher, Benjamin Dyer
Haller, Theodore

Bachelor of Science (Cum Laude)
Newell, Richard L.
Pennell, Donald Franklin
Russell, Walter Harold

Bachelor of Science (Commercial Engineering)
Russell, Alvia DeWitt

College of Mines
March, 1928
Bachelor of Science in Mining Engineering
Bard, Burton Edward

June, 1928
Bachelor of Science in Geology and Mining
Antonova, Helen
Smith, Harold B.

Bachelor of Science in Ceramic Engineering
Baumann, Henry Nicholas, Jr.

College of Forestry
August, 1927
Bachelor of Science in Forestry
Robertson, James Campbell Hay

March, 1928
Bachelor of Science in Forestry
Champers, Jesse Earle
Hartnagel, Nelson
Rowse, William Allen

June, 1928
Bachelor of Science in Forestry
Alutin, Alexander
Blue, Albert Winston
Bonamy, Douglas George
Carlson, Floyd E.
Gustafson, Rudolph O.
Hart, Edward Graves
Kidd, William Robert

McComas, Stanley
Roberts, Cass Bentley
Sankela, William E.
Stratton, Harold Maxwell
Walker, Cedric William
Wiel, Kurt
Woodworth, John William
Degrees Conferred 1928

COLLEGE OF FISHERIES

December, 1927

BACHELOR OF SCIENCE IN FISHERIES
Andreev, Nicholas N. McKee, Lynne G.
Greenwich, Alexander Thompson, Seton Hayes

March, 1928

BACHELOR OF SCIENCE IN FISHERIES
Brown, John Easton Nizam, Ahamedur Rahman

June 1928

BACHELOR OF SCIENCE IN FISHERIES
Turnacliff, Dudley W.

COLLEGE OF PHARMACY

August, 1927

PHARMACEUTICAL CHEMIST
Fletcher, George Grant Holland, Alfred M.

BACHELOR OF SCIENCE IN PHARMACY
Davis, Mildred A. Holland, Alfred M.

December, 1927

PHARMACEUTICAL CHEMIST
Lee, Leo Raymond

March, 1928

PHARMACEUTICAL CHEMIST
Armstrong, Everett J.

BACHELOR OF SCIENCE IN PHARMACY
Hirose, Ruby Sato

June, 1928

PHARMACEUTICAL CHEMIST
Ballard, Noel Thaddeus Dean, Frederick Bonds
Blanchard, Margit Leonora Doescher, Minnie Marguerite
Borde, Ernest V. Fields, Cecil R.
Brown, Clarence H. Garvey, Velma Clarine
Campbell, Allen Donald Graham, Frederick A.
Cox, Cliveden Lloyd Gunderson, Harold Julien
Dassel, Walter Henery Kelly, Edgar A. (cum laude)
Libert, Norman Francis (magna cum laude)
Logg, Florence May
McConkey, Roy C.
McGraw, Ena K.
Millar, Melville M.
Neraal, Pauline
Plummer, Robert Hewetson

Smith, Margaret Armitha
Thompson, Harry E.
Todd, Oswald V.
Verhulst, Herbert John
Walen, Harold Graydon
Wolff, Stanley D.
Woron, Ben

**BACHELOR OF SCIENCE IN PHARMACY**

Armstrong, Everett J.
Benveniste, Isaac E.
Blanchard, Margit Leonora
Gunderson, Harold Julien
Hayes, Margaret Mary
Jorgensen, Paul Simon

Logg, Florence May
McGraw, Ena K.
Magnuson, Carl Walter
Monroe, Paul Alfred
Poole, Abigail Beatrice
Tobey, Lono W.

**COLLEGE OF BUSINESS ADMINISTRATION**

**BACHELOR OF BUSINESS ADMINISTRATION**

**August, 1927**

Armstrong, William Lester
Axe, Erwin Francis
Cook, Arthur David
Davis, William Richard
Johnson, Arnold Waldemar
Mehner, Pauline Esther
Munn, B. Jane
Nelson, Earl John
Shichinohe, Sanzo
Taylor, Robert Wallace
Waugh, Robert
Weiss, Henry Carl
Wolff, Thelma Blanche
Wood, William Downie
Zener, Galen O.

**December, 1927**

Borschell, Theron Alvin
Briscoe, Jacob William
Davis, Frank Leslie
Douglass, Donald David
Harris, John D., Jr.
Hubbard, Ora
Kilkenny, William Peter
McKelvey, Muir
Moran, Halbert S.
Nau, Thomas Potter
Odani, Jiuchi
Oliver, Orno R.
Orkney, James William
Petitt, Henry McEwan
Rogers, Russell

**March, 1928**

Baker, Harold Valentine
Berg, Wilbur Ernest
Camperson, Barton Hampton
Denhof, Sherie P.
Dimalanta y Austria, Fortunato
Dodson, James Milton
Grahn, Clarence Alexander
Jensen, Henrietta Mae (cum laude)
Larson, David Raleigh
Patchett, Ben Francis
Rae, Francis Harry
Reep, Raymond Theodore
Ripley, Cecil Ray
Schlegel, William Bernard
Sonju, Norman
Swearingen, Francis D.
Trow, Florence M.
Walker, Edward Sawyer
Degrees Conferred 1928

June, 1928

Anderson, Carl G.
Behan, James Edward
Biggar, John Hall, Jr.
Bosco, Raymond
Brady, Culvin Ted
Brunner, Eugene Carl
Carlson, Elmer William
Carlson, John, Jr. (*cum laude*)
Chinn, Yuin Kee
Churchill, Verne Gates
Clearman, Frederick Lloyd
Cochran, Neil Marcellus
Cole, Harold Cecil
Copenhaver, Edith Lucille
Cutting, Judson Miller
Delanty, William Hugh
Draper, Dorothy Elizabeth
Dryden, Jane Caroline Eyster
Engdahl, Karl Enoch
Erickson, Allen Leonard
Evans, Milton J.
Falk, David Richard (*cum laude*)
Felmley, Marion F.
Fitzgerald, Louis J.
Flanigan, Margaret Elizabeth
* Fowler, Wallace Elder
Fox, Bernard August
Fricke, Edgar Frederick
Froula, Olivia
Gardner, Bryson Ross
Geibel, Frederick W.
Glerup, Marius James
Gurian, Ted Tevia
Hadsell, Robert Lee
Hanson, Elsie Linnea
Harris, Charles Hartshorn
Hayes, Leroy E.
Hayward, William Stanley
Heath, Lawrence C.
Herbsman, Virginia
Hoff, Alice
Hone, Melville Walton
Hunt, George Willis
Inglis, Ralph Lamoyne
James, Flora Elizabeth
Jenks, Theodore Cook
Johnson, Harvey Albert

Joseph, Jean Butler
Jule, Walter William
Kamps, Charles Allen
Kondo, Tokuo
Koppang, Given Alphonso
Kwapil, Richard
Larson, Richard Carl
Loncke, Madeleine R.
Lowary, Thaddeus A.
McFarlane, Peter Alexander
McIravy, Lowell Campbell
McKenzie, Kenneth D.
Martin, Bertha
Martina, John Dewey
Mason, Robert Harold
Mickelwait, Lowell Pitzer
Miller, B. Franklin
Moore, Russell Balcum
Morris, Gregory Scott
Mund, Vernon Arthur (*magna cum laude*)
Murray, Nellie
Myers, Dorothy
Nelson, Clarence Leroy
Newbury, James Vidler
Ocampo, Pedro Viray
Ochs, Clyde E.
Okubo, Roco Rokuro
Orr, T. Mack
Peterson, William Clarence
Reed, Ruth Eileen
Rose, Jerome Joseph
Russell, Roy Nickerson
Sackett, Percy Elzerah
Schneider, Robert J., Jr.
Schweizer, Carl Alvin
Sidell, Irving Theodore (*cum laude*)
Smith, Dorothy-Marie Burgess
Smith, Harriette Gladys
Spankie, Donald Frederick
Stone, Leslie Amos
Stout, Wesley Edward
Templeton, David Dryden
Thiele, Margarethe Caroline
Warren, Charles Clair, Jr.
Weingartner, Richard Alenson
Wildier, Norman Boyd
Wood, Robert Edwin
Young, Ruth Margaret

*Died, April 28, 1928.*
University of Washington

SCHOOL OF LAW

BACHELOR OF LAWS

August, 1927

Charleston, William M. Mantei, Theodore

December, 1927

Dills, Leslie Harrison

June, 1928

Abel, George F. Long, Stanley Burr
Anderson, Anton L. Lucht, William F., Jr.
Anderson, Harold W. Marion, Lucien Francois
Betts, Graham Kennedy, Jr. Marsh, Shirley Reese
Brady, Bryant Denis (magna cum Mathis, Clinton L.
laude) Metcalfe, Gordon E.
Carlson, Reuben Carl Raichle, Marcus S.
Clayberg, Stephen Sylvester Reilly, John Edward, Jr.
Dodd, Gordon Bennett Rucker, Jasper Lincoln
Doumit, Mitchell John Schlosstein, Clifford F.
Evenson, William Ellsworth (cum Snyder, Loyal Truman Rhodes
laude) Southern, Vinton
Falk, Ernest Thomas Strong, Richard Sasnett
Forrest, John K. Stutz, George Rudolph
Glenn, Wesley Stacey (cum laude) Swanson, Walter Venciffe, Jr.
Harsch, Alfred Elmer (cum laude) Taets van Amerongen tot Wouden-
Henke, Harry, Jr. (cum laude) berg, Baron William Anthony
Ivers, Henry Thomas Weaver, Frank Parks
King, Harold Gillingham
Kinzel, Maurice William

LIBRARY SCHOOL

BACHELOR OF SCIENCE IN LIBRARY SCIENCE

August, 1927

Barton, Lorna Durnford McKibben, Irene
Dorland, Drusilla

March, 1928

Millar, Jean Malcolm

June, 1928

Binderup, Hortense Kittell, George Henry
Bleecker, Alethea Sherbrooke MacTavish, Isabel Grace
Burdic, Ila Mae Martinicvic, Patricia
Coale, Elizabeth Towson O'Connor, Helen Margaret
Cohen, Rose (cum laude) Patjens, Irene
Davis, Lenna Gladys Predmore, Alice Elizabeth
Friderici, Hazel Eugenia Putnam, Gertrude Eudora
Hartge, Lena Armstrong Randall, Helen Jean
Jansen, Phyllis Luella Robbins, Franc E.
Johns, Loeta Lois (magna cum Savage, Margaret Elizabeth
laude) Shirck, Grace Anastasia
Johnson, Eloise Ruth Stone, Bessie Hazel
Johnston, Iris Franceelle Strand, Elizabeth
Jones, Vida M. Turner, Helen Elizabeth
Weaver, Frank Parks
Whitman, Jean Elisabeth
Degrees Conferred 1928

SCHOOL OF JOURNALISM

BACHELOR OF ARTS IN JOURNALISM

August, 1927

Kane, Margaret Marie

Wetherell, Ernest (cum laude)

December, 1927

Hultgren, Elart Fenelon

Schoeder, Marvin Leon

U'Renn, Cara Dorothy (cum laude)

Willard, Aileen

June, 1928

Baker, Mary Katharine

Berry, Theodore F.

Bogstad, Ruth Evangeline

Bradley, Arvid Marinus (cum laude)

Clearman, Louise H.

Craven, Eleanor Arnold

Hubley, Ruth

Impola, John

Mottelson, Mayer

Pickard, Ward L.

Thornton, Marion Janet (magna cum laude)

Whitner, Chester Lee

PROFESSIONAL DEGREES

CONFERRED, 1928

ELECTRICAL ENGINEER

Glen Harry Smith

B.S. in E.E., University of Washington, 1910
Thesis: Load Analysis and Business Forecasts for the Seattle Department of Lighting, 1910-1925

MECHANICAL ENGINEER

Walter Richard Jones

B.S. in M.E., University of Washington, 1928
Thesis: Design of Airplane Propeller

ENGINEER OF MINES

Ernest Newton Patty

B.S. in Geology and Mining, University of Washington, 1919
Thesis: The Engineering and Economic Problems Encountered in the Development of a New Coal Field in Alaska

GRADUATE DEGREES

CONFERRED, 1928

MASTER OF ARTS

Nellie Cornelia Appy (English)

B.A., Whitman College, 1924
Thesis: Three Transcendental Poets

Dorothy Frances Atkinson (English)

B.A., Vassar College, 1923
Thesis: Chaucer's Religious Satire

Frank Pierce Baird (Education)

B.S., University of Montana, 1908
Thesis: History of Education in Idaho through Territorial Days

Carl Oscar Baker (Economics)

B.B.A., University of Washington, 1921
Thesis: History of Public School Revenues and their Apportionment in California
University of Washington

Otto Wathne Bardarson (Education)
B.Ed., University of Washington, 1922
Thesis: A History of Elementary and Secondary Education in Seattle

Ivyl Constantine Barker (English)
B.A., Bethel College, 1920
B.S., Kansas State Agricultural College, 1925
Thesis: Six Short Stories for Children

Elizabeth Holm Bondy (German)
B.A., Fairmont College, 1910
Thesis: Der Americanismus Gustav Freyssens

Marguerite Johanna Brethorst (English)
B.A., Morningside College, 1917
Thesis: The Subject-Matter of Freshman English and Methods related thereto as shown by a Survey of Thirty-one Colleges and Universities with Registrations of over Two Thousand Students

Nancy Kate Brodnax (Home Economics)
B.A., University of Oklahoma, 1921
Thesis: A Study of the Decoration of Costumes In the Sixteenth and Seventeenth Centuries

Jennie Potgieter Burgess (English)
B.A., University of Iowa, 1912
Thesis: Margaret Fuller's Relation to the Women's Movement

Mary Campbell (Education)
B.A., University of Washington, 1919
Thesis: Education of Girls in India

Earl West Carle (History)
B.A., Bridgewood College, 1926
Thesis: Fashoda and the Entente Cordiale

Joseph Cohen (Sociology)
B.A., University of Washington, 1925
Thesis: Juvenile Delinquency and the Broken Home

Esther Josephine Converse (French)
B.A., University of Montana, 1924
Thesis: The Sources of Robert Garnier's Antigone

Calvin Crumbaker (Economics)
B.S., Whitman College, 1911
Thesis: The Relation of the Panama Canal to Certain Economic Problems of Western United States

Izora De Ette Devers (History)
B.A., University of Washington, 1924
Thesis: The Dred Scott Case

William John Dickson (Economics)
B.A., University of Washington, 1927

Geraldine Doheny (History)
B.A., University of Washington, 1925
Thesis: An Account of the Political and Commercial Relations of England with the Christian Kingdoms of the Spanish Peninsula at the Opening of the Hundred Years War, 1327-1340

Lena Eldridge (Spanish)
B.A., New Mexico Normal University, 1919
Thesis: The Gracioso of Juan Ruiz de Alarcon

Lela Marie Elledge (Education)
B.A., University of Washington, 1925
Thesis: Present Requirements for Teachers of Subnormal and Superior Children
Degrees Conferred 1928

Gertrude Catherine Ford (Education)
B.A., University of Washington, 1926
Thesis: A Study of Typewriting Errors

Maribeth Gerbel (Economics)
B.A., University of Washington, 1926
Thesis: The Attitude of Churches toward Labor

Jessie Edith Gibson (Education)
B.A., University of Idaho, 1908
Thesis: Social Values for Girls

Helen Goulard-Grauman (English)
B.A., Walla Walla College, 1920
Thesis: Architectural Principles and Ideals of John Ruskin

Muriel Lewin Guberlet (Education)
B.A., Bethany College, 1909
Thesis: Application of Objective Methods to Problems of the Literature Curriculum

Pedro Garaza Guiang (Education)
B.A., University of Washington, 1926
Thesis: An Analysis of the Major Aspects of Secondary Education in the Philippines

Alice Cable Hanson (Economics)
B.A., University of Washington, 1925
Thesis: Economic Theories of Consumption as Applied to Labor

Olaf Holen (Scandinavian)
B.A., University of Washington, 1916
Thesis: The Haugan Revival and its Place in the Norwegian Literature

Daniel Harvey Johnston (Education)
B.A., University of Washington, 1928

Maud Kane (Latin)
(Sister Mary Patrick)
B.A., St. Mary’s College, 1915
Thesis: An Analysis of the Pathos of the Aesnild

Louise Valverde Kelley (Education)
B.A., University of Washington, 1926
Thesis: The Training of Music Supervisors in our State Universities

Kenneth Baumgardner Kizer (Education)
B.A., University of Washington, 1928
Thesis: Moral Education

Susumu Kobe (Economics)
B.A., University of British Columbia, 1928
Thesis: Governmental Control of Consumption in England

Herbert Satterthwaite Little (Political Science)
LL.B., University of Washington, 1923
Thesis: The Law of Reprisals with Special Treatment of the Corfu Incident

Lena Experience Littlefield (Education)
B.F.A., University of Washington, 1926
Thesis: A Determination of the Present Status of Public School Art in the Secondary Schools of the United States

Cecyl Bancroft Lovejoy (English)
B.A., University of Washington, 1924
Thesis: The Caeolidian Romance

Ben Franklin Lowe (Education)
B.Ed., University of Washington, 1921
Thesis: Public School Publicity in the State of Washington
University of Washington

Sara Norris Mark (English)
B.A., University of Washington, 1911
Thesis: A Defense of Hamlin Garland as a Consistent Realist

Archibald Jennings Mather (Education)
B.A., University of Toronto, 1899
Thesis: The Educational System of New Zealand

Loren Holcombe Milliman (Journalism)
B.A., University of Washington, 1922

Bernice Starr Moore (Education)
B.A., University of Texas, 1924
Thesis: Art as a Social Agency

Helen Morrill (Psychology)
B.A., University of Washington, 1927
Thesis: Time Factors in Conditioning Finger Withdrawal

Robert Storrs Osgood (Spanish)
B.A., Grinnell College, 1894
B.D., Chicago Theological Seminary, 1898
Thesis: The Hebrew Element in the Writings of Fray Luis de Leon

Gladys Irene Pelz (Spanish)
B.A., University of Washington, 1925
Thesis: Don Pedro of Castile in History and Legend

Norman Claud Perring (History)
B.A., University of Washington, 1927
Thesis: The Political Philosophy of John Caldwell Calhoun

Mary Agnes Perry (English)
B.A., University of Washington, 1922
Thesis: Chaucer's Use of Proverbs

Mary Dayton Powell (English)
B.A., University of Washington, 1922
Thesis: Deeds of Henry the Fifth, King of England: A Translation of Henrici Quinti Angliae Regis Gesta

Marie Madden Power (Home Economics)
B.A., University of Kansas, 1914
Thesis: A Study of Household Operation Costs

Luther Laurence Pratt (English)
B.A., Reed College, 1918
Thesis: Some Implications of Philosophical Realism in the Novels of Theodore Dreiser

Hazel May Rennoe (Home Economics)
B.S., Columbia Teachers' College, 1928
Thesis: An Objective Test in Clothing

Arlie Margaret Salmons (Spanish)
B.A., University of Missouri, 1911
B.S. in Ed., University of Missouri, 1912
Thesis: The Madrid of Jose de Larra

Byron August Samuelson (Education)
B.A. in Ed., University of Washington, 1923
Thesis: The History and Present Status of Methods of College Entrance in the United States

Gertrude Paula Sater (French)
B.A., University of Washington, 1918
Thesis: An Examination of the Genesis and Sources of Robert Garnier's Tragedy La Troade
Degrees Conferred 1928

Louis Martin Schleier (Education)
B.A., State College of Washington, 1922
Thesis: Fundamental Difficulties of Beginning Teachers in Montana

Gail Walrath Smith (Education)
B.A., McKendree College, 1910
Thesis: Valuations of Stories in the American and the Cosmopolitan Magazines

Mary Eleanor Springer (Latin)
(Sister Mary Theresa of the Cross)
B.A., St. Mary's College, 1911
Thesis: Classification of Proverbs and Sententious Sayings Selected from the Plays of Plautus and Terence

Edgar Irving Stewart (History)
B.A. in Ed., University of Washington, 1923
Thesis: Northern Prison Camps of the Civil War

Ralph Ewing Storey (Education)
B.A., Brown University, 1899

Lillian Bryce Tift (History)
B.Ed., University of Washington, 1918
Thesis: The Necessity and Means of Financing the American Revolutionary Army

Howard Emerson Timbers (Education)
B.A., University of Southern California, 1925
Thesis: A Study of Some of the Factors Determining the Pupils' Attitude toward Mathematics in the Secondary Schools

Lena Lucile Tucker (English)
B.A., University of Washington, 1904
B.S. in L.S., University of Washington, 1925
Thesis: A Bibliography of Fifteenth Century Literature

Walter Morton Underhill (History)
B.A., University of Washington, 1924
Thesis: William de la Pole; King's Merchant

Louise Morse Dodge Whitham (History)
Ph.B., University of Chicago, 1921

Louis Eugene Williams (Education)
B.A., Seattle Pacific College, 1927
Thesis: Laymen versus Experts

Clotilde Marconnier Wilson (French)
B.A., University of Washington, 1926
Thesis: The Theme of Sophonisba as Treated by Corneille and Voltaire and their Romantic Predecessors

Karl Albert Windesheim (Economics)
B.A., Lawrence College, 1923
Thesis: Economic Aspects of Air Transportation

Asa A. Wood (Education)
B.A. in Ed., Iowa State Teachers' College, 1919
Thesis: The Relative Value of Oral and Written Arithmetic

Katharine Daily Woolston (Sociology)
B.A., University of Washington, 1922
Thesis: Japanese Standard of Living in Seattle

Harper Chapman Wren (History)
B.A., University of Washington, 1928
Thesis: Modern Literature on Magna Carta
University of Washington

MASTER OF SCIENCE

Luther Clare Altman (Zoology)
B.S. in Ed., University of Washington, 1923
Thesis: A New Species of Enchytraeidae, Enchytraeus Marinus

Rebecca Elizabeth Banks (Zoology)
B.S., University of Washington, 1926
Thesis: An Ecological Study of the Animal Life of Freshman Basin, University of Washington

Clifford Woodard Duncan (Chemistry)
B.S. in Ch.E., Oregon Agricultural College, 1923
Thesis: The Effect of Some Electrolytes upon the Stability of Emulsions

Lacey Heintzman Evans (Chemistry)
B.S., University of Washington, 1926
Thesis: The Absorption of Iodine from Dilute Aqueous Solution and its Possible Relation to Goiter

William Kenneth Ferrier (Chemistry)
B.S. in Ch.E., Oregon Agricultural College, 1928
Thesis: The Effect of Some Electrolytes upon the Stability of Emulsions

Julia Elizabeth Goodsell (Zoology)
B.S., University of Washington, 1926
Thesis: A Study of the Effect of Lugol's Solution on the Thyroid Gland of the Guinea Pig

Leland Stanford Harris (Bacteriology)
B.S., University of Washington, 1926
Thesis: Bacteriological Methods of Testing Ice Cream

Catherine Ann Hughes (Bacteriology)
(Sister Mary Frances Clare)
B.A., St. Mary's College, 1908
Thesis: Symbiotic Relations of Molds, Yeasts and Bacteria in Fruit Decay

Warner Melvin Karshner (Bacteriology)
B.S., University of Washington, 1898
M.D., Northwestern University, 1904
Thesis: Hemagglutination

Luell Latham Kretchmar (Chemistry)
B.S., University of Washington, 1926
Thesis: Analysis of Mixtures of Calcium Phosphates

Bernard Vaughan Lamb (Chemistry)
B.S., Gonzaga University, 1925
Thesis: A Study of the Antirachitic Vitamin Content of Salmon Body Oils

Olive Gladys Lathers (Home Economics)
B.A., Reed College, 1919
Thesis: Health Education in the High School

John Maurice McAneny (Chemistry)
B.S. in Ch.E., University of Washington, 1927
Thesis: Analysis and Fusibility of Ash from Certain Washington Coals

Jessie Elizabeth Neville (Mathematics)
B.A., University of Washington, 1926
Thesis: Two Plane Curves in Point Correspondence

Robert Ingersoll Roth (Geology)
B.S., University of Washington, 1925
Thesis: Geology of the Central Part of the Mount Vernon Quadrangle

Norwood Korter Schaffer (Chemistry)
B.S., University of Washington, 1926
Thesis: The Influence of Acids and Alkalies on the Inhibitive Effect of Gelatin upon the Catalytic Decomposition of Hydrogen Peroxide by Colloidal Platinum
Degrees Conferred 1928

Thomas Francis Shea (Chemistry)
B.S., Massachusetts Agricultural College, 1923
Thesis: A Study of the Effects of Electrolytes on the Stability and Inversions of Emulsions

Vera Harriet Stedman (Botany)
B.S., University of Washington, 1925
Thesis: A Cultural Study of Two Species of Fungi Producing Bulbils

Ruth Evelyn Swingle (Bacteriology)
B.S., Montana State College, 1926
Thesis: Organisms Causing Spoilage of Pickled Herring

Andrew Allen Weymouth (Geology)
B.S., University of Washington, 1926

Dael Lee Wolfe (Psychology)
B.S., University of Washington, 1927
Thesis: The Relation of Manual Habits to the Organization of a Linguistic System

MASTER OF SCIENCE IN HOME ECONOMICS

Anne Columbia Platt
B.S., University of Washington, 1917
Thesis: Health Education in Universities and Colleges of the United States

MASTER OF FINE ARTS

Victorio Cecelia Edades
B.F.A., University of Washington, 1925
Thesis: Mural Decoration for the Art Department, University of Washington

John Ely
B.F.A., University of Washington, 1921
Thesis: Paintings on Exhibit at the Henry Art Gallery, University of Washington

Frances Ferry
B.F.A., University of Washington, 1926
Thesis: Mural Decoration for the Art Department, University of Washington

MASTER OF SCIENCE IN CERAMIC ENGINEERING

Vance Samuel Cartwright
B.S. in Ch.E., University of Washington, 1926
Thesis: Methods of Dewatering Clay Suspensions

Howard Harry Mansur
B.S. in Ch.E., University of Washington, 1926
Thesis: The Heat Balances of Some Ceramic Kilns in the Pacific Northwest

MASTER OF FORESTRY

Carl Salvatore Fery
B.S. in F., University of Michigan, 1924
Thesis: Timber Appraisal in the Douglas Fir Region

Deshapande Narasimha Moorty Rao
B.A., Central College, Bangalore, 1913
P.F.S., Forest Research Institute, Dehra Dun, India, 1919
Thesis: Logging Methods in the Pacific Coast States and the Inland Empire and their Applicability to the Forests of the State of Mysore, India
University of Washington

MASTER OF SCIENCE IN PHARMACY

Marion Georgia Brimston
B.S. in Pharm., University of Washington, 1926
Thesis: Some Reactions of Nitrosyl Chloride and Pharmaceuticals

Clementine Claire Evans
B.S. in Pharm., University of Washington, 1927
Thesis: A Study of Atropa Belladonna and its Methods of Assay

Louis Fischer
B.S. in Pharm., University of Washington, 1926
Thesis: Polypodium Occidentale and Comparison with Glycyrrhiza Glabra

Ruby Sato Hirose
B.S. in Pharm., University of Washington, 1927
Thesis: Pharmaceutical Study of Hydrastis Canadensis

Leon Wright Richards
B.S. in Pharm., University of Washington, 1926
Thesis: Ceanothus Velutinus

MASTER OF BUSINESS ADMINISTRATION

James Aitken
B.S., University of British Columbia, 1926
Thesis: An Examination of Canadian Banking

Tung Chi Chu
B.B.A., University of Washington, 1927
Thesis: The Labour Movement in China

Ruth Aeneas Grant
B.B.A., University of Washington, 1925
Thesis: The Organization of a Course for Assistant Buyers in a Department Store

Verner Wilhelm Johnson
B.A., University of North Dakota, 1923
Thesis: Accumulation and Uses of Accounting Data

Curtis Kelley
B.A., University of Washington, 1924
Thesis: The Economic Problems Involved in the Flotation of Foreign Loans in the United States

Charles John Miller
B.B.A., University of Washington, 1922
Thesis: A Statistical History of Manufacturing in the State of Washington from 1860 to 1923

Flora Louise Nadeau
B.A., University of Michigan, 1921
Thesis: A Brief History of Accountancy

Ruby Rosenkranz Skeen
B.A., Willamette University, 1923
Thesis: Modern Budgetary Procedure

Myrtle Minshall Stone
B.A., State College of Washington, 1923
Thesis: Concepts of a Market as Developed in the Pittsburgh Plus Case
Degrees Conferred 1928

DOCTOR OF PHILOSOPHY

Grace Baumgartner
B.M., University of Washington, 1928
M.A., University of Washington, 1929
Thesis: Rent as Cost and Rent as Surplus in Merchandising in Seattle

Arthur Sydney Beardsley
LL.B., University of Washington, 1918
B.S. in L.S., University of Washington, 1924
M.A., University of Washington, 1926
Thesis: An Introduction to the Study of Legal Bibliography and Research, a Laboratory Method

Thomas William Bibb
B.A., William Jewell College, 1908
M.A., University of Washington, 1927
Thesis: History of Early Common School Education in Washington

Emmett Theodore Bodenberg
B.S., Capital University, 1925
M.S., Ohio State University, 1926
Thesis: Mineral Salt Transfer in Deciduous and Coniferous Woody Plants

Max Donald Cornu
LL.B., University of Washington, 1922
M.A., University of Washington, 1926
Thesis: A Biography and Bibliography of Owen Feltham with Some Notes on His Poems and Letters

Arne Sigurd Jensen
B.A., University of Washington, 1919
M.A., University of Washington, 1923
Thesis: The Rural Schools of Norway

Arthur Rudolph Jerbert
B.S., University of Washington, 1916
M.S., University of Washington, 1922

James Richard Lorah
B.S. in Ch.E., University of Washington, 1921
M.S., University of Washington, 1925
Thesis: A Basic Phosphate of Calcium and of Strontium and the Systems (acid range) SrO—P_2O_5—H_2O and BaO—P_2O_5—H_2O

Roy Davison McLellan
B.A., University of Washington, 1915
M.S., University of Washington, 1922
Thesis: The Geology of the San Juan Islands

Paul Jahu Orr
A.B., McMinnville College, 1908
B.S., College of Puget Sound, 1907
Thesis: Transportation of Public School Children in the United States

Lurline Violet Simpson
B.A., University of Washington, 1920
M.A., University of Washington, 1923
Thesis: Borrowings of the Pleiade from Classical and Medieval Didactic Treatises

Blanchard Perley Steeves
B.A., Dalhousie University, 1888
M.A., University of Washington, 1925
Thesis: Status of Modern Foreign Languages in the American High School and College

Wallace Theodore Wait
B.S., Whitworth College, 1916
M.A., University of Washington, 1926
University of Washington

Madge Watson Wilkinson
B.A., University of Washington, 1918
M.S., University of Washington, 1920
Thesis: Lateral Dominance in Motor Response

William Charles Eade Wilson
B.A., University of Montana, 1922
M.A., University of Washington, 1925
Thesis: The Historical Element in the Novels of Blest Gana

NORMAL DIPLOMAS—1928

UNIVERSITY FIVE-YEAR NORMAL DIPLOMA
August, 1927

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aalbu, Dorothy</td>
<td>Eidal, Otto Clarence</td>
</tr>
<tr>
<td>Adams, Julius Gordon</td>
<td>Elder, Raymond Washington</td>
</tr>
<tr>
<td>Andersen, Agnes Ruth</td>
<td>Farrar, Mayme</td>
</tr>
<tr>
<td>Anderson, Louise May</td>
<td>Finseth, Karen Dorothy</td>
</tr>
<tr>
<td>Arnold, Georgia Vera</td>
<td>Flavin, Ruth Anne</td>
</tr>
<tr>
<td>Atwood, Gertrude Mae Guild</td>
<td>Floed, Frances Margaret</td>
</tr>
<tr>
<td>Ayers, Ethel Florence</td>
<td>Forster, Crescentia</td>
</tr>
<tr>
<td>Bartlett, Louise Isobel</td>
<td>(Sister Mary Clementine)</td>
</tr>
<tr>
<td>Bassage, Harold Edwin</td>
<td>Fry, Iva Margaret</td>
</tr>
<tr>
<td>Beegle, Burton Linton</td>
<td>Fuller, Frances Olive</td>
</tr>
<tr>
<td>Blackenburg, Howard</td>
<td>Furgeson, Leora V.</td>
</tr>
<tr>
<td>Bloomer, Cecilia</td>
<td>Geer, Willard</td>
</tr>
<tr>
<td>(Sister Elizabeth Clare)</td>
<td>Glasgow, Marian Joyce</td>
</tr>
<tr>
<td>Bondy, Elizabeth M. Holm</td>
<td>Godsey, Bess Helsel</td>
</tr>
<tr>
<td>Brown, Jane</td>
<td>Gorham, Helen Margaret</td>
</tr>
<tr>
<td>Burns, Anna E.</td>
<td>Grant, Jeanie Marion</td>
</tr>
<tr>
<td>Burpee, Margaret P.</td>
<td>Grebe, Enid Anita</td>
</tr>
<tr>
<td>Button, Arthur Oscar</td>
<td>Green, Kathleen Marian</td>
</tr>
<tr>
<td>Carle, Earl West</td>
<td>Harrison, Aldine Madele</td>
</tr>
<tr>
<td>Clemmer, Ruth</td>
<td>Hawkins, Hazel Marion</td>
</tr>
<tr>
<td>Cole, Sylpha Josephine</td>
<td>Himes, Velma Violette</td>
</tr>
<tr>
<td>Cummings, Blanche Mary</td>
<td>Hine, Marie</td>
</tr>
<tr>
<td>Dabney, Elmer Stratton</td>
<td>Howe, Ramel Elaine</td>
</tr>
<tr>
<td>Davies, Anne</td>
<td>Hughes, Martha Ellen</td>
</tr>
<tr>
<td>Dickson, Belle Lucille</td>
<td>Hurd, Guy Winfield</td>
</tr>
<tr>
<td>Dittmer, Clarence Clifford</td>
<td>Hutton, Evelyn Idab</td>
</tr>
<tr>
<td>Dodson, Jesse Moody</td>
<td>Ihle, Thilda</td>
</tr>
<tr>
<td>Durrwachter, Irma Martha</td>
<td>Johnston, Margaret Edna</td>
</tr>
<tr>
<td>Easum, Ruth Lucile</td>
<td>Johnston, Marjorie D.</td>
</tr>
<tr>
<td>Egbers, Mark W.</td>
<td>Jones, Hannah</td>
</tr>
</tbody>
</table>
Degrees Conferred 1928

Jones, Leola Grace
Keene, Mildred Yockey
Kelly, Genevieve
(Sister Esther Mary)
Kessler, George
Knight, Rebecca Scott
Le Neve; Nina Faith
Lonergan, Thyra Marie
McDonald, Cecelia Marie
McGuinness, Charles D.
McKenzie, Earl Lincoln
Macdonald, Aristelle
Madison, Lillian
Mehner, Pauline Esther
Miller, Amalia Frances
Mitchell, Perry Howard
Monteski, Gertrude Veronica
Moore, John H.
Morgan, Coral
Morgan, Marjorie Lillian
Mullen, Loda Helen
Murton, M. Ethelwynne
Myers, Carlyle Graves
Near, Maxine
North, Stella May
O'Brien, Elizabeth Marie
Odegard, Leonard Sylvester
Odgers, George Allen
Oleson, Mabel Helena
Oliver, Egbert S.
Olson, Arvy Herman
Olson, Gladys Judith
Painter, Esther Elvira
Pannell, Shirley Gwendolyn

Pearson, Anna Catherine
Pedersen, Thora H.
Pool, Stephen C.
Purves, Neil H.
Reed, Elizabeth Margaret
Rhodes, Leonard
Robison B. B.
Rothaus, Marie Theresa
(Sister Mary Rose de Lima)
O.S.D.)
Russell, Lelia M.
Scanzon, Anna Virginia
Scott, Eillsie Margaret
Sherman, Winifred Claire
Shollenberger, J. Wayne
Smith, Gail Walrath
Stone, Ethel Viola
Stowell, Ernest Paul
Sullivan, Frankie B.
Timbers, Howard Emerson
Van Hoomissen, Anna Maria
(Sister Mary Veronica of Milan)
Van Tilborg, Elizabeth Dorciane
Wahl, Leonora Marie
Washington, Lillian M.
Weymouth, Faye Currie
Whillans, Ellen
White, Rosalind F.
Whittaker, Jack Ernest
Wiley, Frances Evans
Wilson, Abe Y.
Wren, Harper Chapman
Wynstra, Stanley S.
Young, Catherine Augusta

December, 1927

Andrews, Harriett M.
Attebery, Hester Josephine
Barnett, Mack F.
Bogert, Madeline Vanden
Bolles, Thomas Darley
Brook, Alice Lee
Freeman, Trunette Aust
Garden, Kathryn Louise
Garner, Louella
Garrott, Jean
Hyland, Mary Adelaide
Kwapil, Dorothy Louise
Miller, Eloise
Neale, Mary Ellen

Neilsen, Hazel Emma
Paysse, Doris
Pearson, Mabel Didriksen
Posey, Naomi-Mae
Ryan, Mary
(Sister Gabriel Ryan)
Scoville, June Idyline
Stout, Maxine
Thune, Alta Lillian
Van Straelen, Francis John
Van Zante, Jean
Wallace, Marjorie
Whaley, Milo Ballard
White, Lorna Carolyn

March, 1928

Cederberg Theodore
Cole, Marjorie Edith
Dishnow, P. Sylvia
Dusenberry, Inez Mae
Eiffert, Opal Jean

Elliott, Stanley Minto
Hanley, Mary Veronica
Henry, Florence
Hurburt, Frances Myrtle
Hurley, Coila Pearl
Hynes, Philomena Lillian
Kleinlein, Esther Marie
Leach, John Harvey
Miller, Carrie Lowry
Nichols, Jane
Nissley, Maria Anne
O'Connell, Caroline
(Sister Margaret of St. Dominic)
O'Hara, William James

Parker, Alfred
Riste, Victor Emerson
Schusman, Dorothy Jean
Shannon, Henry Alvieus
Skagen, Cora Jean
Smith, Thomas S.
Stuber, Esther Elouise
West, Martha Alice

June, 1928

Adamson, Anna Robinson
Albin, Vera G.
Allez, George Clare
Anderson, Esculene
Anderson, Lloyd A.
Anderson, Lucile
Anderson, Ruth Agda
Archibald, Nina Margaret
Arneson, Gladys Amelia
Ashley, Wanda Josephine
Avery, Dorotheda Patricia

Baker, Dorothy
Bare, Margaret Hope
Barker, Edna Thiele
Barkley, Dorothy True
Barnhart, Margaret Helen
Beckwith, Frances Kay
Bell, Hazel Lamar
Berlin, Helen Marie
Bidlake, Florence Harriet
Blauert, Paul Henry
Bloxom, Virginia
Bogstad, Ruth Evangeline
Botsford, James Lawrence
Bower, Marie Patterson
Boyd, Helen
Boyd, Jennette Dorothy
Brandmeier, Blanche Wilhelmina
Breaker, Glenn Maurice
Brickert, Josephine E.
Brisbin, Wilma
Bromberg, Bernice
Brown, Leela May
Brownell, Ruth
Bungay, Ellen Louise
Bunge, Winifred Matilda

Calder, Mary Etta
Callender, Marguerite Weston
Cardwell, Elizabeth Katharine
Carlson, Carl R.
Cartano, Margaret C.
Carter, Nellie Cordelia
Case, Katherine Marie

Casey, Mildred Laura
Chapman, Virginia
Chapple, Guernsey Phillips
Chatterton, Katherine W.
Chester, Helen Elizabeth
Churchward, Philip Edson
Chute, Esther H.
Clark, Evelyn Gordon
Cook, Marjorie Jane
Copenhaver, Edith Lucille
Cowling, Merle Winnifred
Craig, Genevieve Adelaide
Craven, Eleanor Arnold
Crowley, Mary Louise
Culver, Mary L.
Cutting, Judson Miller

Darr, Dorothy
Dean, Florence Myrah
Dedrick, Grace
DeFreest, Grace Helene
DeGabriele, Eugene Marius
Derrah, Edward A.
de Soto, Alexander Phillips
DeWitt, Ruth Evelyn
DeYarmon, Ada L.
Dickinson, Lawton Willia m
Dillon, Sue
Dishnow, Jay V.
Dix, Florence
Drew, Demerice Ebbley
Dudley, Dorothy Hale
Dunham, Earline Viola

Eastwood, Emily Louise
Ehrhardt, Dorothy Chace
Eide, Gudrun Cecelia
Eiffert, Dorothy Fae
Embree, Mary John
Endres, Teresa
Ennis, Mercedes Elouise
Evans, Clementine Claire
Fairbanks, Eugenia
Field, Mary Louise
Fisher, Grace D. Hoover
Degrees Conferred 1928

Fisken, Ruth Kerr
FitzGerald, Florence Hortense
FitzGerald, John Loyola
Fjarlie, Aggot Jeannette
Platebo, Helga
Forbes, Evelyn Gertrude
Franke, Elizabeth Louise
Freund, Julia Clara
Fricke, Edgar Frederick
Frisbie, Chester Calvin
Garrecht, Caroline Teresa
Gates, Alice Elizabeth
George, Evaline Beryl
Gillespie, Margaret R.
Glenn, Harry Calvin
Goettling, Gladys Whitney
Goldblatt, Helen Bertha
Good, Lydia May
Gorow, Frank Fletcher
Gowen, Sylvia Mary
Graham, Elizabeth Emily
Graves, Virginia Sheffield
Gray, Rose
Greenwood, Lucille
Griggs, Jay Howard
Guyer, Dorothea Pemberton
Hagen, Evelyn
Hall, Alvin Morris
Hall, Margaret Olive
Hansen, Inga Marjory
Hanson, Elsie Linnea
Harrison, Helen Barlow
Harsch, Orleana Frances
Hartley, Zelma Jeanne
Hartney, Margaret Ruth
Hastings, Jessie Lou
Hatch, Charles Edward
Hayes, Margaret Mary
Head, Pauline
Hearty, Aileen Louise
Hedges, Elizabeth M.
Hemphill, Elizabeth
Hepperle, Charlotte
Herren, Naomi Elizabeth
Higgins, Myra Marie
Hill, Martha Emily
Hillyer, Theo Frances
Hoff, Alice
Hoska, Helen Rogene
Howell, Iras Claudia
Hubbell, Myra-Leslie
Huff, Elizabeth Naomi
Hunt, Frances Clarke
Jacobs, Maxine Rosalie
Jennings, Elizabeth
Jensen, Lucie Eleanor
Jessen, Christine
Jewett, Elsie Kristine
Johnsen, Pauline Bernice
Johnson, Alida Ruth
Johnson, Anne Irene
Johnson, Elizabeth Harriette
Joseph, Jean Butler
Kelleher, Marion Julia
Kenyon, Ethel Mae
Kenyon, Juanita
King, Esther
Knight, Annalou
Knight, Homer Tibbetts
Knutson, Marie Louise
Koth, Everett Francis
Kramer, Ferdinand
Kroetch, Gertrude Claire
Lansdowne, Elizabeth
Lauer, Edna W.
LeBlanc, Ethel Mildred
Lee, Burling Vincent
Lee, Evelyn Rita
Lewis, Hannah Whiting
Libbee, Frances Alice
Lindquist, Irene
Ludington, Kathryn Lee
Lund, Esther Ragnhild
Lunn, Lois Josephine
Lynch, Elizabeth
McAnally, Carrie
McCartney, Francine Lee
McDonald, Georgene
McGill, Ruth
McKay, Elizabeth Margaret
McLean, Margery Elizabeth
McMaster, Frances
March, Martha Jane
Martin, Bertha
Martin, Robert Ray
Meeks, Ruby
Melder, Frederick Eugene
Miller, Helen Edythe
Milton, Fletcher Roberts
Milward, Doris Lillian
Mitchell, John George
Monroe, John R.
Montfort, Mary Leslie
Moore, Burta Louise
Morris, Cydene Laurreta
Morry, Lucile Katherine
Murray, Nellie
Myers, Dorothy
Myhre, Clara Margaret
Nahhas, Emmeleine Edith
Nelson, Helen Clare
Ness, Conrad Christian
Newman, Ruth Levens
University of Washington

Norie, Martha Gertrude
O'Keane, Frances Eleanor
Oliver, Marguerite Josephine
O'Mahony, Mary Helene
Opstad, Edwin R.
Ouren, George Frederick
Packwood, Ruth Ward
Parr, Katherine Eugenia
Parrington, Louise Wrathal
Pearson, Mabel Valentine
Pendleton, Dorothy Iris
Petersen, Alma F.
Petersen, Anabel
Petersen, Arleen May
Polson, Genevieve Corine
Poole, Abigail Beatrice
Porter, Helen Annah
Potter, Helen Agnes
Potter, Ruth Antoinette
Raban, Adelyne F.
Ratliff, Coralie Esther
Reed, Ruth Eileen
Reichert, Marguerite Catherine
Richardson, Mary Joyce
Riley, Mary Elizabeth
Rohrbough, Wanda Marie
Rose, Jean Margery
Rose, Julia Florence
Rossman, Kathryn Jeanette
Rousch, Minnie Aubrey
Ryan, Grace Henrietta
Saunders, Virginia
Savage, Anne Elizabeth
Scheitlin, Frieda
Schenke, Gustave Bernard
Scott, Sara
Sears, Edith Katherine
Semb, Balwen Arthur
Shaw, Marian Estelle
Shepard, Evelyn Elizabeth
Sherman, George Witter
Shipley, Dorothy
Siderfin, Dorothy Gwendolyn
Skalley, Kathleen
Smith, Adelia Louise
Smith, Alverna Rowena

Smith, Dorothy Louise
Smith, Frances Elaine
Steed, Mable Ann
Stewart, Una Andrew
Stidd, Ruth Margaret
Stoll, Lorena Dorothy
Stone, Ida Sue
Swan, Clarice
Swartz, Fanny Wintler
Tainter, Frances Miller
Taylor, Kyle Eldon
Terwilliger, Beulah May
Tesack, Kathryn Elizabeth
Thiele, Margarethe Caroline
Thomas, Ferne Agnes
Torney, John Alfred, Jr.
Travis, Ira Merle
Tucker, Margaret
Underwood, Irma Victoria
Vandercook, Esther
Vernon, Louise Estelle Summers
Wall, Kathlene Darden
Walsh, Inez Josephine
Walsh, Mildred Ursula
Waltz, Margaret Elizabeth
Wang, Laura K.
Warde, Gertrude Elizabeth
Watt, Phoebe
Weisberg, Hildegarde
Whiteather, Hazel Glenne
Whitnell, Helen Margery
Wildor, Norman Boyd
Willer, Sonia June
Williams, J. Aloysius
Williams, L. Eugene
Wilson, Evelyn Minnie
Wolz, Elise Amalie
Wood, Edna Maurine
Wood, Hazel Frances
Wooden, Retta Elbera
Woodin, Vernetta Diadama
Woodworth, Alice Anne
Wright, Miriam Frances
Wright, Paul Wernitch
Yeck, Lois E.
Zeeb, Kathryn Ardath

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

August, 1927

Appleton, C. Floyd
Glanville, Arthur Tennyson

Mather, Archibald Jennings
Monsen, Hildur Stahrfoss

June, 1928

Dawson, John Cecil
Jorgensen, Erna Martha
Morrison, D. Grant
Morrison, Marjorie Elizabeth

Savage, Audrey Christene Helene
Takai, Sumi-ko
Wood, Laura-Linda Falconer
UNIVERSITY LIFE DIPLOMA

August, 1927

Allen, Doris Martha
Anderson, Muriel C.
Anderson, Olga M.
Anderson, Pearl Adella
Bingham, Blanche Irene
Blanchard, Elizabeth Estelle
Boggs, Thelma Viola
Bonnett, Howbert Bainter
Bowman, Edna Elizabeth
Buchanan, Lorna May
Bush, Elizabeth Pauline
Carmichael, Ruth Pearce
Carr, Howard Maynard
Case, E. Nydia
Clifton, Mary Evelyn
Christman, Martha E.
Crofoot, Mentha Lucina
Davis, Paul A.
Davis, Ray Nathan
Dekker, Kate
Devers, Izora De Ette
Easton, Inez
Edwards, Lucile Hyndman
Elledge, Gladys Pearl
Elledge, Lela Marie
Erickson, Sylvia Patricia
Farrar, Myrtle I.
Finn, Mary
   (Sister Mary Josephine)
Foster, Dorothy Vaughan
French, Hazel
Furgeson, Paul F.
Gerritt, Harriet Ina
Goodrich, Haven G.
Hagerty, Nellie
Hall, Vesper Trevor
Hamilton, Laura Hoover
Hammond, Allen Odell
Hanson, Esther Annette
Hartman, Claris Hazen
Hatlen, Charles Bernard
Hill, Glen Gordon
Hoffland, Henry Harrison
Huston, Jessie Victoria
Jerome, Vincent Barnes
Johnson, Myrtle Dorothy
Johnson, Venus June
Kelley, Curtis
Lammers, Frieda
Lindsay, Mazie Palmer
McCarty, Marguerite Helen

Macomber, Leone Faris McBride
Mahaffey, Audley Fleming
Maus, Mildred Palmer
Miner, Grace Edith
Nash, L. Catherine
   (Sister Mary Edwardine)
Nelson, Andrew Nathaniel
Nelson, Esther Olive
Owen, Nellie McCall
Pennell, Geneva Estora
Perry, Mary Agnes
Pickrell, Evelyn Ann
Potts, Theresa Ann
   (Sister Mary Lourdana)
Raymond, Ethel Gertrude
Remley, Miriam
Ridley, Elsie Waddingham
Rollinger, Dorothy
   (Sister Mary Josepha)
Russell, Pearl Elizabeth
Sadler, Estella Jackson
Satre, Alice
Selgelid, Orville J.
Shaw, Anna Belle
Shaw, Gretchen Adella
Shultz, Celia Barbara
Sieck, William Henry
Silvers, Josephine Lois
Sim, Ida Grace
Smith, Ethel Beryl
Stickney, Amy Eunice
Stone, Lucia May
Stowasser, Frances Marie
Sullivan, Nellie
   (Sister Mary Louise)
Swanson, Florence Lillian
Thayer, Jean Ellen
Turner, Cecilia Helen
Turner, Mary
Tuttle, Marian E.
Underhill, Walter Morton
Van Houten, Lois
Waldo, Josephine A.
Walsh, Grace Ann
   (Sister Mary Michael)
Weage, Mary De Ella
Westervelt, Howard Wilson
Wolff, Katherine C.
Wright, Jack Willis
Wright, Leota Sadie
December, 1927

Curtiss, Verne Elizabeth
Dalgoty, Jean V.
Hassenmiller, Kenneth Lyndon
Hoag, Ruth Gilberta

McLain, Ada Esco
Olson, Olaf Ebert
Rummel, Edith E.
Werner, Winnifred

March, 1928

Barlow, Marie S.
Bolman, James
Brown, Marie J. Evans
Bullock, Cecil Frank
Chisholm, Dorothy M.
Coke, Martha Evelyne
Daubenspeck, Marion Henderson
Harrison, Mae
Keilholtz, Ruth W.
King, Dorothy

Livingston, Louis Smith
MacDonald, Gladys Eora
Oldfield, Alice A. Dominica
(Olson, Esther Olinda
Peters, Henry William
Russell, Helen Madden
Selby, Kenneth Edgerton
Valleau, Verna
Van Gilder, Florence Myrtle

June, 1928

Anderson, Alma Carolyn
Barnes, Frances Jane
Biggs, Mary Catherine
Bolt, Emma (Sister M. Leonella)
Byrd, Evelyn L.
Campbell, Maurine Prescott
Campbell, Robert Andrew
Cook, Faustine Douglas
Davies, Anne
Erickson, Elisabeth Evelyn
Forrester, Louise D.
Gorrell, Winifred Genevieve
Grebe, Louisa Edith
Hansen, Bert Benjamin
Hazan, Kathryn Amelia
Hiersch, Wilhelmina A.
Hodges, Mable Emma
Koenig, John
Kraus, Ada Maud
Leaf, Alice
Lucas, Helen Mary

Lynch, Minnie Jane Watkins
McCaig, Grace Ralston
Miller, Charlotte Elizabeth
Miner, Eva Lee
Percival, Dorothy Louise
Peterson, Georgia Nicholson
Phillips, Dorothy Myers
Robertson, Sadie MacDonald
Rucker, Gladys Louise
Sanders, Carrie
Schertel, Max
Shelton, Arthur Loring
Stewart, Edgar I.
Storey, M. Eugenia
Swanson, Ruby F.
Thomas, Roscoe Gillespie
Tibbits, Erva Lillian
Uhden, Esther Dorothy
Van Orsdall, Otie Pearl
Weythman, Ruth
Scholarships and Prizes, 1928

CERTIFICATE IN PUBLIC HEALTH NURSING

August, 1927

Brown, Edith Lucille
McKay, Mary E.
Richman, Ethel Hester
Wick, Mary V.

December, 1927

Beckley, A. Verna
Brunken, Katherine Adolene
Carlson, Anna E.
Dubé, Emma B.
Glover, Augusta Suson
Harris, Irene Louise
Le Riche, Irma Scott
Nelson, Nora V.
Nichols, Iva V.
Seals, Meda Beatrice
Smale, Myrtle R.
Thon, Martha
White, Helen Morrison

March, 1928

Haugen, Hilda

June, 1928

Charron, Laura
Fraser, Florence
Fuller, Fern Beimus
Gupwell, Edwina May
Hall, Lura Florence
Koerner, Marsa Riddell
McFadgen, Ellen
Robitaille, Eva
Seymour, Winifred
Storme, Illa McPherson
Tiber, Bertha Margaret

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES
JUNE 11, 1928

THE LORETTA DENNY FELLOWSHIPS

Herbert Ellsworth Childs (English)
B.A., Oberlin College, 1926

John Liska (Physics)
B.A., Ripon College, 1928

Theodore William Evans (Chemistry)
B.S., College of Puget Sound, 1927

Alternates

J. Raymond Cluck (Philosophy)
B.A., University of Washington, 1928

Julius Peter Jaeger (English)
B.A., Spokane University, 1918
M.A., University of Washington, 1928

James Lawrence Botsford (Mathematics)
B.A., University of Washington, 1928

THE ARTHUR A. DENNY FELLOWSHIPS

Genevieve Georgiana Bale (History)
B.A. in Ed., University of Washington, 1927
University of Washington

Melvin Miller Rader (English)
B.A., University of Washington, 1925
M.A., University of Washington, 1927

Abigail Beatrice Poole (Pharmacy)
B.S. in Pharm., University of Washington, 1928

Walter Allen Nicholson (Mining Engineering)
B.S. in Ch.E., University of Washington, 1928
(For 1927-1928)

Leo Alexander Carter (Civil Engineering)
B.S. in C.E., University of Washington, 1928
(For 1928-1929)

William Theodore Wright (Civil Engineering)
B.S. in C.E., University of Washington, 1928

Not yet awarded in Education

FELLOWSHIPS IN THE COLLEGE OF MINES AND THE NORTHWEST EXPERIMENT STATION, UNITED STATES BUREAU OF MINES

(For 1927-1928)

Vance Samuel Cartwright (Ceramics)
B.S. in Ch.E., University of Washington, 1926

Howard Harry Mansur (Ceramics)
B.S. in Ch.E., University of Washington, 1929

Lewis Clarke Wood (Metallurgy)
B.S. in Ch.E., University of Washington, 1927

(For 1928-1929)

Howard Smith Davis (Ceramics)
B.S. in Min.E., Pennsylvania State College, 1925
M.S. in Min.E., University of Washington, 1927

Italo Peter Crivelenti (Mining)
Ch.E., Polytechnic Institute of Brooklyn, N.Y., 1923

THE DUPONT FELLOWSHIP
Victor Elliott Wellman

THE BON MARCHE INDUSTRIAL FELLOWSHIP
Lillian Imrie (1927-1928)

THE EFFIE I. RAITT RESEARCH FELLOWSHIP IN NUTRITION
Lucile Streator

COLUMBIA UNIVERSITY FELLOWSHIP IN MINING ENGINEERING AND CHEMISTRY
Charles Alexander Porter

THE NAKATA FELLOWSHIP IN ORIENTAL STUDIES
Marjorie Frances Thole

THE SKAGIT VALLEY GOLDENSEAL FARM RESEARCH FELLOWSHIP IN PHARMACY
Paul Alfred Monroe
Scholarships and Prizes, 1928

THE ISABELLA AUSTIN MEMORIAL SCHOLARSHIP
Lois Cornelia Stover

THE GAMMA PHI BETA SCHOLARSHIP
Eileen Belden

THE FREDERICK AND NELSON SCHOLARSHIPS
Belva Mary Harris William Scott Post
Alternates
Irmajean Olive Laird Martin Oliver Nelson

THE VENINO SCHOLARSHIP IN MUSIC
Ruth Evelyn De Witt

THE MU PHI EPSILON SCHOLARSHIP IN MUSIC
Dolores Georgiana Tinkcom

THE BEECHER KIEFER MEMORIAL SCHOLARSHIP IN MUSIC
Franz Axel Brodine

THE LADIES MUSICAL CLUB SCHOLARSHIP
Ruth Evelyn De Witt

THE PAUL KARSHNER MEMORIAL SCHOLARSHIPS
Norman Linde Helen Hale

THE P. E. O. SCHOLARSHIP
Isabel Harris

THE PHI MU GAMMA SCHOLARSHIP
Dorothy Adelaide Jones

THE SCHOLARSHIP TO THE FONTAINEBLEAU SCHOOL OF FINE ARTS IN FRANCE
George Katsutoshi Nakashima

THE WALKER CUT STONE TRAVELING SCHOLARSHIP IN ARCHITECTURE
John Storm Villesvik

THE WEST COAST LUMBER BUREAU TRAVELING SCHOLARSHIP IN WOOD ARCHITECTURE
Robert John Stanley Paterson

THE SIGMA DELTA CHI SCHOLASTIC AWARD IN JOURNALISM
Charlotte Burgess Smith Theodore Frederick Berry
University of Washington

THE JUDGE ALFRED BATTLE PRIZE IN PUBLIC SPEAKING AND DEBATE
Clel Evan Georgetta Charles Reddell Strother

THE FRATERNAL ORDER OF EAGLES PRIZES IN EXTEMPORAL SPEAKING
Clel Evan Georgetta J. Raymond Cluck Charles Reddell Strother

THE CARKEEK PRIZE IN LAW
Alfred Elmer Harsch

THE HELENE BOETZKES PRIZE IN GERMAN
Max Schertel

THE WASHINGTON MUTUAL SAVINGS BANK ESSAY PRIZE IN BUSINESS ADMINISTRATION
Vernon Arthur Mund Robert Julius Schneider Ludwig Schreuder

THE CHARLES H. BEBB PRIZES IN ARCHITECTURE
George Katsutoshi Nakashima Robert John Stanley Paterson Harry Kirke Wolfe

THE GLADDING-McBEAN TERRA COTTA COMPANY PRIZES
Stanley Carl Brogren George Katsutoshi Nakashima Waldo Emerson McKinney

THE CHARLES LAITHROP PACK FOUNDATION PRIZE IN FORESTRY
George Clemens Flanagan

THE OMICRON NU PRIZE IN HOME ECONOMICS
Alice Elizabeth Anderson

THE CHI OMEGA PRIZE IN SOCIOLOGY
Helen Ethel Morgan

THE NORTHWEST CONCRETE PRODUCTS ASSOCIATION PRIZE IN CIVIL ENGINEERING (For 1927-1928)
Roe Parker Rodgers William Theodore Wright

THE McKEAN BOOK PRIZE
Shige Ninomiya

THE ITALIAN COMMERCIAL CLUB GOLD MEDAL FOR EXCELLENCE IN ITALIAN
Phyllis Pilkington

THE LEHN AND FINK GOLD MEDAL FOR PHARMACEUTICAL ESSAY
Cliveden Lloyd Cox
Scholarships and Prizes, 1928

THE AMERICAN PHARMACEUTICAL ASSOCIATION GOLD MEDAL FOR EXCELLENCE IN PHARMACY
Norman Francis Libert

THE AMERICAN INSTITUTE OF ARCHITECTS MEDAL FOR DISTINCTION IN DESIGN
Paul Albert Thiry

THE LINTON MEMORIAL AWARD
Clarence Hunter Brown

THE JUNIOR MILITARY PRIZE
Robert Bruce Hitchman

Not Yet Awarded

PUYALLUP UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP

CLALLAM COUNTY UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP

THE JUDGE KENNETH MACKINTOSH PRIZE IN DEBATE

THE JAGGARD ESSAY PRIZE

THE PHILO SHERMAN BENNETT ESSAY PRIZE IN POLITICAL SCIENCE

THE CHINA CLUB ESSAY PRIZE

THE FRANK BUTY ESSAY PRIZE

THE A. MERLINO ESSAY PRIZE

THE FREDERICK AND NELSON SMALL HOUSE COMPETITION
COMMISSIONS IN THE OFFICERS' RESERVE CORPS, UNITED STATES ARMY

SECOND LIEUTENANT, INFANTRY

George Samuel Cook
Richard Laurance Dilworth
Milton Jacob Evans
Par Jerome Gehring
Clarence Alexander Grahn
Charles Hartshorn Harris
Delfer Hope Jackson
Theodore Cook Jenks

George Ross Kingston
Bernard Lowenstein
Richard King Neal
Elmer Ogawa
Russell Smith Price
James Allen Tower
Theodore Busick Weld

SECOND LIEUTENANT, COAST ARTILLERY

Carl William Bernhard
Lee Reno Dawson
Cullen Jerrold DeGraw
Hiram DePuy, Jr.
Schuyler Leverich Duryee
Allen Ellsworth Horning
Charles Walter Huffine
Malcolm Faulknor Judkins
Palmer Gates Lewis

Ralph Herbert McClaren
Donald Franklin Pennell
Arthur Corbett Peterson, Jr.
Selby Millmore Skinner
Richard Lewis-Stith
Carl Russell Swenson
Clayton Kenus Watkins
Richard Clabeau Willman

SECOND LIEUTENANT, AIR CORPS

Jesse Earle Champers
Edward Eaton Gutherless
Charles Eugene Lauer

Edward McLean Lewis
Harold Maxwell Stratton
Wallace William Quistorff

CERTIFICATION FOR APPOINTMENT IN OFFICERS' RESERVE CORPS

Infantry
Quentin R. Davis
Albert Gallatin Flournoy

Air Corps
John Gammell

HONOR GRADUATES OF THE RESERVE OFFICERS' TRAINING CORPS
Quentin R. Davis
Edward Duval Hoffman
Donald Franklin Pennell
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<td>Enborn, Arthur W, LA</td>
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<td>Eng, Arthur G, Bus</td>
<td>Seattle</td>
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<tr>
<td>Eng, Oscar C, LA</td>
<td>Seattle</td>
</tr>
</tbody>
</table>

The Register of Students list includes various names and locations, primarily in the United States, with some names and affiliations listed multiple times.
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Gelder, Richard J, Engr ..............Seattle
Gels, Catherine R, LA ............ Sequoia, Cal
Gelsness, Evelyn, LA ............. Port Angeles
Gelman, John, LA ............... Port Angeles
Gelbard, Norma, LA ............ Seattle
Geho, Dorothy, LA ............. Dillon, Mont
Geliaty, Marjorie G, FA ......... Wenatchee
Gelletty, Harlow, LA ........... Seattle
Gemmell, Nina E, LA ............. Tacoma
Genther, Benicia, ScI .......... Bellingham
Genung, Ed B, LA ............... Seattle
Genung, Myrtle, LA ........... Seattle
George, Evaline, LA ............ Seattle
George, Harry F, LA ............ Seattle
George, Pearl Edna, FA ......... Seattle
George, Ruth Marie, ScI ......... Seattle
George, Wm E, Grad ............. Seattle
Georgette, ChaL, Law .......... Seattle
Gerber, Bertha S, LA ........... Seattle
Gerdman, Alice E, Grad ....... Seattle
Gerhardt, Karl E, LA .......... Aberdeen
Gerke, Harold D, LA ......... Seattle
Gerhardt, Karl, LA .......... Seattle
Gerdeman, Alice E, Grad ... Seattle
Gellaman, Grace, Evallne ......... Seattle
Giger, Ramon E, LA ............. Los Angeles
Gill, Edward O, Bus ............. Seattle
Gill, Dorothy, LA .......... Seattle
Gilbreath, L, LA ................ Seattle
Giboney, W E, LA .............. Seattle
Gibbons, Anna, ScI ........... Seattle
Gilbert, Denave, LA ............. Los Angeles
Gibbons, Anna, ScI ............ Seattle
Gilbert, Evelyn Luella, LA ...... Seattle
Gibbs, Tom B, LA ................. Spokane
Gibb, Minnie, ScI .......... Aberdeen
Gibb, W R, LA ............ Seattle
Gibson, W L, Law ............. Seattle
Gibbons, Anna, ScI ............ Lancaster, Cal
Gibbons, Harold, Bus ........... Seattle
Gibbs, Wm W, LA .............. Seattle
Gibbl, Arthur A, LA ............. Tacoma
Giblin, Grace M, Grad ........... Fallon, Nev
Gibney, Edgar B, ScI ............. Seattle
Giboney, John F, Bus .......... Veradale
Gibson, Florence, Bus .......... Twp
Gideon, Edith, Sci .......... Winslow
Gierlin, Grace, LA ........ Seattle
Giers, Carl J, LA ............ Tacoma
Gifford, Gilbert L, Bus ......... Twp
Gifford, Deneve, LA .......... Seattle
Gill, Kenneth, LA .............. Olympia
Gill, Kenneth N, LA .......... Olympia
Gill, Miles F, LA .......... Seattle
Gilliat, Madeline, Grad ........ Seattle
Gill, Donald, LA .......... Seattle
Gill, Donald S, ScI .......... Seattle
Gill, Edward C, Bus .......... Seattle
Gill, L Presley, Bus .......... Seattle
Gill, Ramon E, LA ........... Snohomish
Gillespie, Hazel, Sci .......... Centralia
Gillespie, Margaret L, LA .. Rosalynn
Gillespie, Norman J, Bus . Sheridan, Wyo
Gillette, Jessie M, FA ........ Seattle
Gill, Lysol, LA ........... Seattle
Gilley, Robert W, LA ......... Portland, Ore
Gillhouse, Rachel A, Bus ...... Seattle
Gillies, Eva B, LA ............... Sumas
Gillis, Ewen, PhDr .......... Seattle
Gilmam, David Candy, LA ......... Ontario
Gilmam, Helen C, Grad ......... Seattle
Gillam, Frederick, LA ......... Seattle
Gillam, Mary Gertrude, LA ...... Seattle
Gillmore, Helen, LA .......... Seattle
Gillmore, Herman, LA ........ Seattle
Gillmore, Kenneth W, LA ...... Seattle
Ginger, Grace M, LA .......... Seattle
Ginger, John G, LA ............ Seattle
Ginger, L, LA .......... Seattle
Gingrich, Arthur B, Bus ......... Spokane
Gingrich, Florence, Bus .......... Spokane
Ginneman, Ed. FA .............. Seattle
Giovannini, Frank, Engr ......... Roslyn
Giroux, Eugene, Sci ............ Seattle
Giroux, Marie A, LA .......... Seattle
Glasko, Edward, Sci .......... Chicago, Ill
Glinton, Julian Digratisa, LA ......... Seattle
Glode, Chauncey, LA .......... Seattle
Glesner, Walter W, LA ......... Yakima
Glasgow, Beryl Dee, LA ......... Seattle
Glass, Robert W, Engr .......... Auburn
Glasson, Robert J, Engr ......... Seattle
Glenn, Harry C, Edu .......... Montesano
Glenn, Wesley S, Law .......... Seattle
Glerrup, Marcus, Bus .......... Opportunity
Glick, Helen D, LA .......... Tacoma
Glickman, Abe Edward, LA ... Seattle
Glickman, Diana, LA ......... Portland, Ore
Glickman, Louis, LA .......... Seattle
Goble, Chas Edward, LA ......... Tacoma
Gochaur, Floyd E, LA .......... Montesano
Godfrey, Charles, Engr .......... Spokane
Godfrey, Nellie, ScI .......... Seattle
Godfrey, Xella W, Engr ... Lake Stevens
Goding, Mona, Law .......... Monroe
Goeckler, Leon C, LA ......... Seattle
Goff, Willard, Sci .......... Seattle
Goggins, George T, LA ......... Seattle
Golding, Esther, LA .......... Oregon
Goldberg, Esther, LA ......... Oregon
Goldberg, Mary, FA .......... Seattle
Goldblatt, Alfred, LA ......... Portland, Ore
Goldblatt, Helen, LA ......... Portland, Ore
Goldblatt, Homer L, LA .......... Seattle
Golden, Constance, Bus ......... Bremerton
Goldman, Olave, LA .......... Wauna
Goldsmith, Bobbe E, Sci .......... Seattle
Goldstein, Beatrice Jean, FA ... Seattle
Goncharoff, Leon, Bus .......... Silversis
Gonzales, Deogracios, LA ......... Philippines
Gonzales, Jose, Sci .......... Philippines
Gooch, John Martin, Pharm ... Seattle
Good, Lydia M, LA .......... Mt Vernon
Good, Ruth A, FA .......... Flathead, Mont
Goodpasture, Margaret, FA ..... Olympia
Goodsell, Julia, Sci .......... Chelan
Goodwin, Shirley, LA .......... Seattle
Goen, Lillian, Grad .......... Seattle
Goore, John, Engr ......... Tacoma
Gordon, Blanche, LA ........ Seattle
Gordon, Kenneth, Engr ......... Bellingham
Gordon, Lewis Frank, Phar ... Grays Harbor
Gordon, Walter S Jr, Grad .... Seattle
Gorham, Elizabeth, LA ......... Seattle
Gorham, Sara, LA .......... Seattle
Gorraly, Helen, FA .......... Seattle
Gorow, Frank F, Sci .......... Tacoma
Gos, Deila, LA .......... Seattle
Goss, Earl H, LA .......... Seattle
Goss, Jack Gordon, Grad ......... Seattle
Goss, Fred, LA .......... Seattle
Goss, Worth C, Engr .......... Seattle
Goudie, Glenn E, Engr .......... Seattle
Gould, Alex, LA .......... Seattle
Gould, Marie Louise, LA ......... Seattle
Gourlay, Arthur, Bus .......... Seattle
Gourlay, Robert C, LA .......... Seattle
Gow, Paul E, Sci .......... Seattle
Gowen, Joyce, Grad .......... Seattle
Gowen, Syliva M, LA .......... Seattle
Gozzi, Herbert, Grad .......... Advance, Mo
Grace, Helen Elizabeth, LA ......... Mt Vernon
Grady, Alice, Sci .......... Seattle
Grac, Edward L, FA .......... Seattle
Graff, Casper M, LA .......... Yakima
Graham, Bertha M, LA ......... Seattle
Graham, Carrel Frank, Bus .......... Sunnyvale
Graham, Donald, Bus .......... Seattle
Graham, Elizabeth, LA ......... Seattle
Graham, Everett F, LA .......... Seattle
Graham, Frederick A, Pharm .. Bellingham
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Heritage, Nellie E, LA. ........................ Seattle
Herlaman, Eliza ............................... Seattle
Herold, Chester Lathrop, Sci. ........................ San Jose, Cal
Herold, Edmund H, Bus. ........................ Seattle
Herold, Harriet, LA ............................. Lakewood
Herren, Naomi E, LA ............................ Aberdeen
Herron, Joseph Charles, LA ........................ Seattle
Herold, Betsy Ann, LA ............................ Iwaco
Hertzog, Anna ................................. Colby
Hertsche, Mary A, LA ............................. Seattle
Hervin, Carl H, Engr. ........................... Seattle
Hessman, Howard, Jr. ............................ Seattle
Hessusy, Carl R, Law. ............................ Seattle
Heuer, Herbert M, Engr. ........................ Seattle
Hewitt, Mary H, Fsh. ............................ Seattle
Hewitt, Ruth, LA ................................. Yakima
Hill, Kem, LA ................................. Seattle
Hillard, Alvin E, Bus. ............................ Mt Vernon
Hibbs, Lois, LA ................................. Seattle
Hicklin, W Wendell C, LA ........................ Matson
Hickenbottom, Walter E, LA ........................ Zillah
Hickman, Ever E, LA ............................. Seattle
Hicks, Esther, Edu. .............................. Grandview
Hicks, J F G Jr, Sci. ............................... Seattle
Hicks, Retha, LA ................................. Tacoma
Higginbotham, Anna A, LA ........................ Seattle
Higgins, Kathryn, LA ........................... Seattle
Higgins, Marie, LA ............................... Seattle
Higby, Jack ............................... Oklahoma City, Okla
Higby, Marie E, Sci. .............................. Seattle
Higman, Chester J, LA .......................... Seattle
Higuchi, Takashi, LA ............................ Seattle
Hill, G D, LA ................................. Seattle
Hill, Mary E, LA ............................... Seattle
Hill, Edwin K Jr, LA ............................ Seattle
Hill, Elmer A, LA ............................... Seattle
Hill, Ivan B, LA ................................. Seattle
Hill, Kenneth F, For. ............................ Seattle
Hill, Martha E, LA .............................. Seattle
Hill, Richard V, LA .............................. Seattle
Hill, Way Woody, LA ............................. Seattle
Hillebrecht, Elsa L Pharm ........................ Bellingham
Hillier, Jack Aaron, Bus. ........................ Portland, Ore
Hillman, Arthur, LA ............................. Seattle
Hillman, Belle ................................. Seattle
Hills, Carla, LA ................................. Seattle
Hillery, Theo, LA .............................. Yakima
Hilton, Jetha B, LA .............................. Seattle
Hilton, Gillette, LA ............................. Evanston, III
Hilton, Irene N, LA ............................. Marysville
Hiltzinger, Julia M, Edu. ........................ Seattle
Hiltzinger, Robert, LA .......................... Highfield
Hinderer, Finsley E, LA .......................... Seattle
Hine, Marie Louise, Grad. ........................ Du Quoin, III
Hineline, Douglas, Engr. ........................ Seattle
Hineline, Virginia G, Bus. ........................ Seattle
Hines, John P, Engr. ............................ Portland
Hinson, Philip, Bus. ............................. Everett
Hinkle, Van R, LA ............................... Olympia
Hinkle, W, LA ................................. Seattle
Hinsdale, Edwin C, Fsh. ........................ Seattle
Hiscock, Joseph C, LA .......................... Yakima
Hirakawa, Joe T, LA .............................. Japan
Hirata, Charles, LA ............................. Baker, Ore
Hirata, Margaret, LA ............................ Auburn
Hirose, Ruby, Grad. ............................. Auburn
Hirota, Haruo, LA ............................... Seattle
Hirschfield, Katherine, Mary, LA ........................ Portland, Ore
Hirschman, Joy, Sci. ............................. Seattle
Hirtle, E G, Engr. .............................. Seattle
Hirayasu, George S, Engr. ........................ Seattle
Hobart, Lawrence, LA ........................... Seattle
Hobart, Harold W, For. ........................ Seattle
Hobbs, Helen, LA ............................... Seattle
Hobbs, Lois, LA ................................. Seattle
Hoff, Robert, LA ............................... Seattle
Hodgson, Dorsey D, LA .......................... Vancouver
Hodgson, L Orville, LA .......................... Portland, Ore
Hodgson, William C, LA ........................ Seattle
Holeis, Bernice, Bus. ............................ Seattle
Holf, Alice, Bus. ............................... Seattle
Hoff, Ebbie C, Sci. ............................. Bothell
Hoff, Jean M, Engr. ............................ Seattle
Hoffelds, Homer LA ............................. Seattle
Hoffman, Edward D, LA ........................ Tacoma
Hoffman, Jayne R, LA ........................... Seattle
Hoffman, Lawrence W, Jour ........................ Seattle
Hoffman, Mary H, LA ............................. Seattle
Hogans, Walter P, Engr. ........................ Seattle
Hogan, Clara H, Edu. ............................ Seattle
Hogan, Jack Armstrong, LA ........................ Yakima
Hogan, Made E, LA ............................. Seattle
Hogan, Reanna, Bus. ............................ Seattle
Hogan, Reanne J, LA ............................ Seattle
Hogan, Robert E, Engr. ........................ Seattle
Hogart, Louise, Sci. ............................. Seattle
Hogberg, Judith, LA ............................. Seattle
Hogen, Mary, Bus. .............................. Chehalis
Hogen, Nelli, LA ............................... Chehalis
Hogg, Herbert W, Pharm ........................ Seattle
Hoglund, Olga E, LA ............................. Seattle
Hogna, Shannon, LA ............................. Seattle
Hokans, Walon Henry Jr, LA ........................ Seattle
Hohenschild, Rosamary, FA ........................ Seattle
Holcomb, R Donald, Bus. ........................ Tacoma
Holt, Ruth Marie, Sci. .......................... Seattle
Hokanson, Helen M, LA .......................... Hoquiam
Holahan, Thomas, LA ............................ Seattle
Holcomb, Cornelius C, LA ........................ Seattle
Holcomb, Margaret, LA ........................ Seattle
Holden, Eleanor, LA ............................ Toppenish
Holden, George C, LA ........................... Seattle
Holden, Harold, LA ............................. Seattle
Holden, Helen B, FA ............................. Yakima
Holden, Win S, LA .............................. Seattle
Holdgate, Charles, LA ........................... Seattle
Holly, Luther R, LA .............................. Seattle
Holman, Alice, LA .............................. Seattle
Holmberg, Wesley, Jour ........................ Aberdeen
Holmes, Alice, LA .............................. Olympic
Holmes, Catherine, LA ........................ Seattle
Holmes, Earl M, Law ............................ Seattle
Holmes, Blaine, LA .............................. Centralia
Holmes, Lionel, LA .............................. Seattle
Holmes, Robert A, LA ........................... Longview
Holmstrom, John, Engr. ........................ Seattle
Holman, Alice, LA .............................. Yakima
Holm, Alice, LA ............................... Seattle
Holt, Evans G, FA .............................. Spokane
Holt, Leta M, Edu. .............................. Spokane
Holt, Lora N, LA ............................... Seattle
Holt, Ruth O, Bus. .............................. Seattle
Holts, Lloyd, LA ............................... Seattle
Holway, Arrlotta D, Sci. ........................ Seattle
Holway, Theodore W, Fsh. ........................ Seattle
Hone, Walton, Bus. ............................. Seattle
Hood, John E. ................................. Seattle
Hood, Lois G, LA .............................. Ferndale
Hoo, Clifford, LA .............................. Bellingham
Hocker, Harry L, LA ............................ Seattle
Karshner, Edwin J, Bus ........... Seattle
Karshner, Warren M, Grad ........... Puyallup
Karshner, S S, Bus ........... Seattle
Kassebaum, Karl F, LA ........... Seattle
Katayama, Elmer J, Bus ........... Concrete
Kaufman, Gretchen, Sci ........... Bellingham
Kaufman, Yvonne Y, LA ........... Seattle
Kaufman, Bert, LA ........... Concrete
Kavanaugh, Clarence E, FA ........... Everett
Kaye, Roy H, Engr ........... Seattle
Kaye, David, Sci ........... Spokane
Kaynor, Gilbert, LA ........... Ellensburg
Kayser, Dorothy, LA ........... Seattle
Kearns, Mary M, Sci ........... Spokane
Kears, Oliver, Engr ........... Seattle
Keating, Eleanor, FA ........... Wallace
Keeler, Edward C, Engr ........... Seattle
Kehrli, Walter, LA ........... Hillsdale, Ore
Keene, Robert A, LA ........... Seattle
Kehlholz, Ralph, Engr ........... Seattle
Keith, Wendolyn H, LA ........... Seattle
Keith, Ted, Engr ........... Battle Ground
Kells, George B, Feb ........... Seattle
Kellogg, L I, Marion, LA ........... Seattle
Keller, Raymond E, Engr, Douglas, Alaska
Keller, Virgil A, Law ........... Seattle
Kellerman, Katherine, Sci ........... Seattle
Kelley, Albert H, LA ........... Seattle
Kelley, Elizabeth, LA ........... Seattle
Kelley, Thomas L, Engr ........... Seattle
Kelley, Warren G, Sci ........... Orge
Kellogg, Evelyn, LA ........... Mercer Island
Kellogg, John A, LA ........... Bellingham
Kellogg, Martin V, y, LA ........... Seattle
Kellogg, Ruth, LA ........... Seattle
Kellogg, Virginia, LA ........... Hquam
Kelly, Clara J, Sci ........... Seattle
Kelly, Edgar, Pharm ........... Seattle
Kelly, Emmet P, Engr ........... Seattle
Kelly, Eugene, LA ........... Walla Walla
Kelly, Evelyn, Sci ........... Seattle
Kelly, Georgia, LA ........... Seattle
Kelly, Jack, Engr ........... Seattle
Kelly, Jean Mary, LA ........... Seattle
Kelly, John, Bus ........... Walla Walla
Kelly, Myra, LA ........... Seattle
Kelly, Virginia, LA ........... Walla Walla
Kelly, Louise, Sci ........... Spokane
Kemp, Maurine, FA ........... Oto, IA
Kempkes, Josephine, LA ........... Everett
Kempner, Edith E, LA ........... Seattle
Kenniston, Lela L, Edu ........... Seattle
Kennedy, Aileen M, FA ........... Sea.
Kennedy, Aileen, LA ........... Seattle
Kennedy, Dun W, Bus ........... Seattle
Kennedy, Marion, Sci ........... Seattle
Kennedy, Muriel, LA ........... Seattle
Kennedy, Peter J, LA ........... Seattle
Kendall, Bernice E, Bus ........... Seattle
Kennicott, Frances C, LA ........... Chehalis
Kenny, James E, Engr ........... Victoria, BC
Kenny, Thomas F, LA ........... Butte, Mont
Kensley, Frank Walter, Engr ........... Monroe
Kenton, Omer James, LA ........... Tacoma
Kenyon, Ethel Mae, Edu ........... Upham, ND
Kenyon, Jennie E, Sci ........... Bremerton
Kenyon, Juana C, Sci ........... Bremerton
Kenyon, Helen, LA ........... Seattle
Kenyon, Marcus Monroe, Sci ........... Toppenish
Kenyon, Margaret L, Sci ........... Bremerton
Kenyon, Phyllis E, LA ........... Seattle
Kerus, Ray F, Pharm ........... Seattle
Kerr, Stuart, LA ........... Seattle
Kerr, Wallace, Bus ........... Seattle
Kerchecker, Cleo P, Fac ........... Centerville, IA
Kesseler, Rhea, FA ........... Seattle
Kestle, Velma A, LA ........... Seattle
Kosmer, Claude, Bus ........... Seattle
Ketcham, Dorothy, LA ........... Seattle
Ketcham, Ed, LA ........... Seattle
Ketcham, Ethel R, LA ........... Seattle
Ketcham, Mary Virginia, FA ........... Seattle
Ketcham, Leila, Bus ........... Seattle
Ketner, Robert N, Engr ........... Tacoma
Kettenbach, Wilhelmina, FA ........... Lewiston, ID
Kettenring, Fred M, Min ........... Vancouver
Kettenring, Muriel, LA ........... Seattle
Kays, Herman J, LA ........... Spokane
Kayser, Dorothy M, LA ........... Seattle
Kever, Victor, Engr ........... Russia
Kibbe, Merle H, FA ........... Bellingham
Kid, William Robt, For ........... Seattle
Kidder, Emery, LA ........... Mcclellan
Kleburtz, J Richard, For ........... Seattle
Kiehl, Harold, Bus ........... Seattle
Kiehlbaucht, Howard W, Sci ........... Seattle
Kiel, Harry, LA ........... Ferndale
Kielland, Leif B, LA ........... Seattle
Kiley, John B, Engr ........... Tacoma
Kienast, Celeste N, LA ........... Bellingham
Kienast, Vera, LA ........... Bellingham
Kilgore, Carleton, V, LA ........... Tillamook, Ore
Kilka, Mae, LA ........... Heppner, Ore
Kilkes, William P, Bus ........... Heppner, Ore
Killes, Frances L, Pharm ........... Seattle
Kilman, Evelyn, LA ........... Seattle
Kilman, Rosemary, LA ........... Spokane
Kilman, Francis G, Law ........... Lowell
Kilworth, Ruth Jane, LA ........... Seattle
Kimball, Hiram, LA ........... Seattle
Kimball, Jessie Mary, Grad ........... Seattle
Kimmel, Evelyn, LA ........... Spokane
Kimerer, Fred E, Sci ........... Seattle
Kimura, Tadao, LA ........... Seattle
Kindred, Grace, FA ........... Seattle
Kine, Jack, FA ........... Spokane
Kinerk, Harry R, Engr ........... Seattle
King, Dorothy, Grad ........... Puyallup
King, Esther, LA ........... Seattle
King, Frank William, Sci ........... Seattle
King, Harold G, Law ........... Walla Walla
King, Lillian M, Grad ........... Seattle
King, Oliver F, LA ........... Seattle
King, Robert William, Grad ........... Seattle
King, Virginia, FA ........... Seattle
Kingma, Gerben, Engr ........... Oak Harbor
Kingston, George R, Sci ........... Seattle
Kingston, Roy M, LA ........... Seattle
Kingston, Ross N, Law ........... Seattle
Kinkade, Rose R, LA ........... Forks, Mont
Kinkade, Ward N, LA ........... Forks, Mont
Kinkard, J Calvin, Engr ........... Toledo
Kins, George E, LA ........... Seattle
Kinney, Kent A, LA ........... Seattle
Kinney, Gladys, Bus ........... Seattle
Kinney, Thos G, Bus ........... Seattle
Kinney, Doris, FA ........... Seattle
Kinney, Helen, Libr ........... Seattle
Kinney, Ronald C, LA ........... Seattle
Kinsel, Laura, FA ........... Seattle
Kinsel, Maurice W, Law ........... Seattle
Kipp, Mildred, LA ........... Seattle
Kirk, Charles G, LA ........... Seattle
Kirk, Levern, Bus ........... Bothell
Kirk, Margaret, Edu ........... Yakima
Kirk, Paul, LA ........... Tacoma
Kirk, Ruth S, LA ........... Toppenish
Kirkham, M Bernece, Grad ........... Seattle
Kirpatrick, Dahi J, For ........... Randle
Kirpatrick, Earl L, LA ........... Chehalis
Kirpatrick, Geo A, Engr ........... Portland, Ore
Kirkwood, Mary C, LA ........... Toppenish
Kirse, John F, Bus ........... Sequim
Kirse, Lucille B, Bus ........... Everett
Kirehman, Mabel M, Sci ........... Seattle
Kisler, Gifford, LA ........... Portland, Ore
Kisler, Rufus W, For ........... Wenatchee
Kittsama, Hideo, FA ........... Seattle
Kittredge, Dave, LA ........... Seattle
Kittel, George H., Grad. ... Seattle
Kittel, Jack W., Engr ... Everett
Klair, Agnes Petra, LA ... Kelso
Klair, Edith, LA ... Spokane
Kloeren, Bernice, Sci ... Seattle
Kloosen, Billie, LA ... Seattle
Kline, Alexis G, Sci ... Seattle
Kling, John Carl, Pharm ... Everett
Klungsbyn, Earl Paul, E ... Seattle
Klein, David, Bus ... Seattle
Klein, Margaret, LA ... Seattle
Klindien, Esther M, Sci ... Seattle
Klindien, Max F, Fish ... Seattle
Klindien, Oscar, Fish ... Seattle
Klindien, Vera E, LA ... Seattle
Klein, Betty, LA ... Seattle
Klemme, Marvin, LA ... Longview
Klemptner, Ellen, Edu ... Seattle
Kobbe, Marion F, Sci ... Seattle
Kilnufelter, Melvin T, Bus ... Seattle
Kllorin, Mark Z, LA ... China
Klook, Marilyn, LA ... Seattle
Klook, Helen W, Sci ... Seattle
Kloth, Marian, LA ... Seattle
Klump, Lloyd E, Bus ... Portland, Ore
Knappe, Eva G, Edu ... Lake City
Knappe, Helen, LA ... Seattle
Knight, Annessa, LA ... Seattle
Knight, Beulah, LA ... Seattle
Knight, Homer, LA ... Seattle
Knight, Rebecca S, Grad ... Seattle
Kline, Edward E, LA ... Burlington
Kinnz, Emma Louise, LA ... Seattle
Knowles, Chas, LA ... Seattle
Knappe, Arthur, LA ... Seattle
Knadson, John T, Sci ... Spokane
Knutsen, Clarence, Bus ... Everett
Knutson, Marie J, LA ... Seattle
Knudaen, Olga Marie, Sci ... Seattle
Kobe, Manatsugu, Pharm ... Japan
Koch, Edwin, LA ... Seattle
Koch, Ethel, LA ... Olympia
Koch, Rabbi Samuel, Grad ... Seattle
Koda, Katshubiro, Engr ... Seattle
Koenigs, Leo, M ... Seattle
Koerner, Court L, Engr ... Spokane
Koester, Virginia, Bus ... Seattle
Kogor, Dorothy M, FA ... Sun River, Mont
Kollarus, Fred J, Sci ... Seattle
Kolb, Earl R, FA ... Seattle
Kolb, Robert, LA ... Seattle
Koltabash, Chika, LA ... Seattle
Koltvato, Don, Fish ... Astoria, Ore
Kolstad, Barbara Mae, Sci ... Seattle
Kondo, Tokizo, Bus ... Seattle
Konschot, Ruth, LA ... Kent
Koo, Palmer D, FA ... Spokane
Koppang, Given A, Bus ... Kalispell, Mont
Korin, Herman J, Sci ... Seattle
Kosaka, Hannah H, LA ... Seattle
Kosakoff, Ivan T, Engr ... Seattle
Kotl, Sigrid J, PhR ... Aberdeen
Kostenhader, Orpha, Sci ... Sunnyvale
Kothe, Everett, Sci ... Odessa
Kutscher, Leland H, Bus ... Auburn
Kroets, Earl, Fish ... Arlington
Kraft, Carl Wm Jr, Pharm, Silver Bow, Mont
Kramer, Agnes Petria, LA ... Ritzville
Kramer, Ferdinand, LA ... Ritzville
Krahnss, Bert, LA ... Mt Vernon
Krause, Alexander, LA ... Seattle
Kraus, Ada Maud, Grad ... Seattle
Kraus, Leslie J, Bus ... Vancouver
Krebs, Frederick E, Sci ... Seattle
Kreger, George H, Engr ... Tacoma
Krebsinger, Helen M, Grad ... Seattle
Kriegel, Henry, Bus ... Seattle
Kriegel, W Wurtth ... Seattle
Kreger, William G, FA ... Seattle
Kroetz, Gertrude C, FA ... Spokane
Krogstad, Donald C, LA ... Seattle
Krogstad, Ralph, Bus ... Seattle
Krone, Arnold, LA ... Hollywood
Krug, Richard, LA ... Seattle
Krug, Kay, LA ... Seattle
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Kruen, Frank W, Bus, LA ... Los Angeles, Calif
Kuentzel, Katherine A, Sci ... Seattle
Kuehns, Betty, LA ... Wenatchee
Kudlauskas, Richard, Bus, Sci ... Wenatchee
Kuhn, Bertha M, Grad ... Beach, ND
Kuker, Anna E, LA ... Seattle
Kumala, Masaru, Engr ... Seattle
Kumle, Eugene E, Engr ... Seattle
Kunel, Margaret, LA ... Seattle
Kur, Huila Emily, Grad, Milwaukee, Wis
Kunde, Norman F, Edu, Minneapolis, Minn
Kuniholm, Eugene, Sci ... Seattle
Kurbits, Kenneth W, Pharm ... Yakima
Kurokawa, Fumi, LA ... Seattle
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Kushi, Makil, FA ... Seattle
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Lagno, Teofilo, LA ... Philippines
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Lager, Gert, LA ... Seattle
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Lang, Gert, LA ... Littlerock
Landman, Evert, Sci ... Tacoma
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Lewis, Gertrude, Sci. .......... Seattle
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Lewis, John B .................. Seattle
Lewis, Norman, LA ............. Spokane
Lewis, Myra N, Sci. ........... Seattle
Lewin, John .................... Seattle
Lewis, Robert D Jr, Bus ....... Seattle
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Lewis, Ruth LA ................ Seattle
Lewson, Frank N, For .......... Cosmopolis
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Leyman, Margaret, LA .......... Seattle
Libbey, Frances, Sci. ......... Seattle
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Lich, Robert Jr, Sci. ........... Fresno, Cal
Lieber, Edwin, LA ............. Mt Vernon
Lievay, J. Leon ................. Seattle
Lieber, Thomas, LA .......... Mt Vernon
Liggett, Blm, Sci. ............. Seattle
Liljequist, Elma, LA .......... Seattle
Lilly, Jennie M, Sci.......... Bridgeport
Linde, LeRoy .................... Seattle
Lind, Carita C, LA ............. Seattle
Lind, Gertrude A, Woodinville
Lindahl, Royal J, LA .......... Seattle
Lindberg, Caroline, LA ....... Tacoma
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Lindblom, Roy E, Grad ......... Seattle
Lindblad, Emil C, Bus ...... Bellingham
Linde, Carl A, Engr ............ Puyallup
Linde, Margaret, Res........... Spokane
Lindeman, Philip, FA ........... Honolulu
Lindeman, Paul, LA ............ Bellingham
Lindgren, Hilda, LA ............ Woodinville
Lindholm, Beulah C, Sci .... Seattle
Lindman, Bertram H, Engr ... Seattle
Lindsey, Flavia, Sci .......... Seattle
Lindsey, J. J, For .............. Seattle
Lindsey, Eleanor, Edu .......... Bellingham
Lindstrom, Kilding C, Pharm ... Seattle
Lindstrom, William, Bus ....... Tacoma
Linglum, Harold A, LA ........ Seattle
Linger, Rudolph H, Engr ...... Yakima
Linn, Vernon L, Bus .......... Sumas
Linnelack, Otto A, Bus ....... Spokane
Linton, Geraldine, LA ......... Seattle
Lind, Edward, LA, St John .... Seattle
Linnville, Lawrence B, Bus ... Seattle
Linnville, Lawrence S, Bus .... Wenatchee
Lippincott, Crispin, LA ....... Seattle
Lipinski, Sam, Pharm .......... Seattle
Lister, Inga O, LA ............ Seattle
Liston, Thos R, Sci. .......... Orillia
Lloyd, Darcey, Bus .......... Dallas, TX
Littel, Estella Marie, Edu .... Centralia
Littel, Norman M, Grad ....... Seattle
Little, Herbert, Grad .......... Seattle
Little, James LA ............... Honolulu
Littlefield, Lena E, Grad ...... Seattle
Livers, Carlos E, Engr ....... Tooele, Utah
Liveley, Ethel W, LA .......... Seattle
Livingston, David, Engr ...... Seattle
Liewellyn, Fred W, Bus ...... Seattle
Loan, C W, Pharm .............. Seattle
Lockitch, Percy A, Bus ....... Portland, Ore
Lockwood, David B, Bus ....... Bremerton
Lockwood, Marie F, LA ....... Yakima
Loder, Adelaide F, Bus ....... Sheridan, Wyo
Loe, Ruth LA ................... Seattle
Loewenstein, Elizabeth F, LA ... Yakima
Loewing, Gilbert, Bus ......... Bellemont
Lofgren, Frederick V, Pharm ... Seattle
Lofte, Donald, LA ............. Lake Stevens
Logan, Marjorie, Sci .......... Seattle
Logg, Florence M, Pharm ....... Seattle
Logg, Mildred J, LA .......... Seattle
Loge, Frank W, Engr ........... Seattle
Loh, Dorothy, LA .............. Seattle
Loh, Louise, LA ................. Seattle
Lombard, Eunice W, LA ....... Yakima
Lombard, Henry, LA ........... Yakima
Lombard, Stewart, Law ....... Seattle
Lonnecke, Gertrude, LA ....... Summer
Lonnecke, Madeleine R, Bus ... Seattle
Londgren, LA ................... Seattle
Loners, E, Engr ............... Seattle
Loners, Harry, FA .............. Seattle
Lonney, Mabel Harrietta, Sci ... Seattle
Long, James Glenn, Sci ....... Seattle
Long, Katherine, SH, LA .... Seattle
Long, Lewis, LA ............... Seattle
Long, Margaret E, LA .......... Seattle
Long, Paul, Engr .............. Mercer Island
Long, Rita, LA ................. Seattle
Low, Robert E, LA ............. Spokane
Low, Stanley B, Law .......... Chehalis
Longenbaugh, May M, LA .... Seattle
Longfellow, Judith J, For ... Kansas City, Mo
Loop, Herbert, Engr .......... Shelton
Lopp, Alice M, Sci .......... Seattle
Lopp, Doris, LA ............... Seattle
Lorah, E A, Engr .............. Seattle
Lorah, Paul D, LA ............ Seattle
Lordan, Roy, LA ............... Seattle
Loree, Joe M, Bus .......... Seattle
Loring, Amelia, Sci .......... Stevenson
Lotz, Elmer, Grad ............. Seattle
Lowe, Richard W, Sci .......... Seattle
Lowe, George, LA .............. Seattle
Lowe, Stanley, Pharm ......... Seattle
Lowe, Allen Y Jr, LA ........ Seattle
Logenerated, Louis, LA ....... Seattle
Love, Frank, LA ............... Seattle
Love, Elna Beatrice, LA ...... Seattle
Love, Edward A, Sci .......... Richmond Va
Love, Thaddeus A, Bus ....... Polemon, Mont
Love, Milton W, LA .......... Seattle
Lowery, Edmund, Bus .......... Chehalis
Lowary, Thaddeus A, Bus ...... Poolemon, Mont
Lowery, Ben F, Grad .......... Tacoma
Love, Carl M, LA ............. Arlington
Love, Dorothy F, Sci .......... Seattle
Love, Edgar, Law ............... Seattle
Lovenstein, Bernard, Bus ...... Seattle
Lowry, Lorna A, Edu .......... Chehalis
Lucas, Mary, LA ............... Seattle
Lucas, Robert, LA ............. Seattle
Lucas, Robert, LA ............. Seattle
Luca, Roy, LA ................... Seattle
Luce, Irene, Sci ............... Seattle
Luch, Sarah E, Sci ............ Vancouver
Luchtel, F R, Law .......... Spokane
Luckenbach, Carl, Law ....... Seattle
Lucket, Alfred F, LA .......... Seattle
Luding, Charity, LA ......... Wenatchee
Ludwig, Eugene F, Engr ....... Seattle
Lady, Phyllis, Sci ............. Los Angeles, Cal
Laff, Elmo, Sci ................. Olympia
Lake, Robert F, LA .......... Santa Barbara, Col
Lakes, Marion R, LA ......... Seattle
Lakes, Janet, LA .............. Seattle
Lam, Jackson, Bus .......... China
Lambard, Roy M, LA .......... Seattle
Lund, Dorothy Irene, Sci ...... Seattle
Lund, Robert P, LA ........... Seattle
Lund, Esther R, LA .......... Spokane
Lunde, Helen, Sci ............. Poulsbo
Landjacht, O Vernon, Sci ...... Seattle
Landumt, Herbert F, Engr ... Seattle
Lunn, Lois, FA ................. Seattle
Lamont, Knute, For .......... Silvana
Luppert, Graceloth, Bus ....... Seattle
Lurie, M Ethel, LA ........... Seattle
Luse, Verne M, Grad .......... Spokane
Lutter, G L, LA ............... Seattle
Luther, Philip, FA ............ Edmonds
Lutterman, Beatrice, FA ...... Seattle
McKay, Douglas D, For, Tacoma
McKay, Elizabeth M, Sc, Seattle
McKean, John Donald, Sc, Seattle
McKean, John, Bus, Portland, Ore
McKee, L G, Fish, Bellingham
McKee, Mary E, Grad, Seattle
McKee, Mary P, Grad, Everett
McKelvey, Mur, Bus, Seattle
McKelvie, Mary, LA, Seattle
McKelvie, Robert, Seattle
McKenney, Boyd, Fish, Seattle
McKenney, Margaret, LA, Hoquiam
Mackenzie, Donald E, Grad, Seattle
Mackenzie, Douglas, Bus, Friday Harbor
Mackenzie, Mary, LA, Seattle
McKinley, Florence, Grad, Seattle
McKinley, Mary, LA, Seattle
McKinlay, Frank, Engr, Seattle
McKinlay, Waldo E, PA, Seattle
McKennon, Gilroy, Grad, Seattle
MacKinnon, John A, Fish, Seattle
MacKinnon, John A, Fish, Seattle
MacKinnon, John, LA, Seattle
MacKinnon, John, Grad, Great Falls
MacKinnon, John A, Fish, Seattle
MacKintosh, Gordon W, Bus, Seattle
MacKnight, Helen, LA, Seattle
MacKnight, Donald D, LA, Seattle
MacKnight, Theodore M, LA, Olympia
MacLean, Donald J, Grad, Vancouver
MacLean, Archibald M, Bus, Seattle
MacLean, Duncan G, Engr, Seattle
MacLean, Elsworth, For, Cowichan
MacLean, Kenneth L, Engr, Enumclaw
MacLean, Margaret, PA, Seattle
McLean, Martin, Jr, Grad, Seattle
McLeod, Kenneth, Sc, Seattle
McLeod, Sarah, LA, Portland, Ore
McLouth, Benjamin, Bus, Los Angeles, Cal
MacMahon, Charles E, Engr, Seattle
MacMahon, Cleon D, Bus, Seattle
MacMahon, John C, Bus, Bellingham
MacMahon, Richard F, LA, Seattle
McMann, Joseph, LA, Seattle
McMann, Robert Wm, Bus, Seattle
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McMann, Robert, Wm, Bus, Seattle
McMeans, Elizabeth, LA, Seattle
McMeans, R W, Fish, Seattle
McMeen, Robert, Seattle
McMeen, William Otho, Engr, Seattle
McMillan, Clifford R, Engr, Wlimdein, ND
McMillan, John E, LA, Seattle
McMillan, Mary E, LA, Seattle
McMillan, Kenneth F, Bus, Seattle
McMullen, E L, PA, Tacoma
McNab, Lauretta, LA, Portland, Ore
McNab, Jennie, PA, Seattle
McNab, Elma, PA, Bothell
McNaughton, James W, LA, Junecu, Alaska
McNeil, Dorothy, Pharm, Seattle
McNeil, Ernest E, Seattle
McNeil, Gordon W, Edu, Seattle
McNeil, Stephen, Bus, Quinault
McNeil, Catherine L, Bus, Billings, Mont
McNichol, Naomi, LA, Seattle
MacNicol, Jane, Pharm, Seattle
McOber, Ava Blanche, LA, Seattle
McPherson, Jennie, LA, Seattle
McPherson, Bernice, Bus, Seattle
McPherson, Don, Engr, Seattle
McPherson, Mildred, LA, Seattle
McPherson, Robert, Sc, Spokane
McPherson, Wm C, LA, Portland, Ore
McPherson, Milbie, PA, Seattle
McQuarrie, Malcolm, Fish, Seattle
McIntire, Donald J, LA, Seattle
MacRae, Lloyd A, Engr, Seattle
McIntire, John M, Everett
McRory, Beverly Orville, Pharm, Seattle
McTavish, Isabel G, Grad, Vancouver, BC
McVay, Doris, LA, Seattle
McWalter, Jack, LA, Seattle
McWhinney, Roy Allard, Sc, Seattle
Mass, Johnnette, LA, Seattle
Macks, Milton J, Engr, Seattle
Macfarlane, Richard A, LA, Seattle
Mack, Geo C, Pharm, Seattle
Mack, Margaret, FA, Seattle
MacDonald, Louise H, Sci, Everett
Mackey, Jack Engr, Seattle
Maciel, Beth Clair, LA, Seattle
Mackoff, Charles, Sci, Spokane
Macomber, Ray B, Bus, Seattle
Macrae, Edith, LA, Seattle
Macrae, Marjorie I, Grad, Great Falls, MT
Madsen, Herbert S, Fish, Seattle
Madsen, John, Grad, Seattle
Mage, C Minor, FA, Seattle
Magee, Dorothy Jean, LA, Seattle
Maguire, James, LA, Seattle
Magner, Dorothy, FA, Richmond Beach
Magnuson, Bryce, LA, Point Roberts
Magnussen, Harold, Bus, Seattle
Magnussen, C W, Philadelphia, PA
Magnussen, Warren, Law, Seattle
Magoun, Mary, Sci, Seattle
Magnure, Hazel A, Sci, Vancouver, BC
Maguire, Vivian, FA, Seattle
Mahaffey, Donald R, LA, Tacoma
Mahaffy, Robert Jr, LA, Seattle
Mahan, Arline E, FA, Seattle
Mahoney, Fred, Pharm, Seattle
Mahoney, P W, Law, Seattle
Main, Carroll, LA, Seattle
Main, Elliott, Engr, Fort Angeles
Main, Frank J, LA, Seattle
Major, Sidney W, LA, Seattle
Makino, Megumu, Bus, Japan
Malan, Myrtle, Bus, Seattle
Mallon, Kelce, Edu, Seattle
Malline, Delfin, LA, Philippines
Mallett, Catherine, FA, Seattle
Mallett, Julian, Engr, Seattle
Malloy, Benjamin J, Grad, Seattle
Malloy, Kathleen J, Grad, Seattle
Malloy, John W, Bus, Seattle
Malloy, John W, Bus, Seattle
Malone, Arthur D, LA, Ellensburg
Malone, Cee V, Bus, Everett
Malstrom, Harriet M, FA, Seattle
Manc, Harry E, LA, Seattle
Manfred, Nicholas A, Sci, Irvine
Mang, Ling K, LA, China
Manier, Beatrice, LA, Olympia
Manuel, Alfonso, Engr, Philippines
Mann, Charles C Jr, Fish, Seattle
Mann, Sr, Edwards, LA
Mangrum, Richard, Law, Seattle
Manning, Franklin, Law, Seattle
Mannion, John J, Grad, Seattle
Manolides, Evans D, LA, Seattle
Manu, Nicholas, LA, Tacoma
Manwaring, Howard H, Grad, Seattle
Mantle, Vernon V, Sci, Sequim
Manuel, Francisco, LA, Seattle
Man, S H, Grad, Seattle
March, Martha J, LA, Aberdeen
Marchand, Morgan C, Sci, Seattle
Mariano, Sid, LA, Seattle
Marion, Lucien F, LA, Seattle
Mark, B J, Engr, Seattle
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Reeder, Genevieve M., LA ...... Seattle
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Sweet, Verna H, Bus. .... Seattle
Sweet, Virginia, Ed .... Redmond
Sweet, Rex W, Fish. .... Seattle
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Sweet, William H, Sci. .... Centralia
Swen, Theodora, LA .... Redmond
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Swensd, Harold A, Grad. Petersburg, ND
Sweet, Viva Ellen, FA .... Seattle
Swine, Wm A, Bus .... Twin Falls, ID
Swo, Benjamin J, Grad .... East Farms
Sykes, Jeannette G, FA .... Seattle
Sywester, John N, LA .... Seattle

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Taylor, Vernal E, For. .... Klickitat
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Tefft, Dorothea J, Sci .... Seattle
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Tegue, wagon, LA .... Seattle
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White, Jessie M, Grad, Seattle
White, Lorna, FA, Seattle
White, Mabel Nell, LA, Everett
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White, Paul A, LA, Spokane Falls
White, Robert L, LA, Australia
White, Ronald C, Bus, Seattle
White, Sherman A, LA, Middleton, Cal
White, Vannette, LA, Monitor
White, W Wallace, Engr, Seattle
White, Wayne E, Sci, Spokane
Whit, Wesley, LA, Bothlan
Whitaker, Medora, LA, Seattle
Whitford, Sarah L, Edu, Seattle
Whitelaw, John W, LA, Seattle
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Fair, Jessie, Educ. ..... Seattle
Falk, Alice E, LA. ..... Portland, Ore
Fannelow, Paul, Educ. ..... Seattle
Farnar, Edna E, LA. ..... Seattle
Farrar, Mayne, Grad. ..... Seattle
Kwapil, Richard, Bus. ... Seattle
Lacey, Florence T, LA ... Denver, Colo
Lackey, Ralph L, LA ... Touched
Laffton, Paul ... Gatesburg, Pa
Lafranchi, Vincent, Engr ... Seattle
Lagasean, Buenaventura, Bus ... Seattle
Laird, Helen, Educ ... Butte, Mont
Lake, Carrie E, Sci ... Spokane
Lake, Florence, LA ... Spokane
Lake, Lucille, Educ ... Spokane
Lamb, Jessie E ... Billings, Mont
Lambrecht, Lester ... Seattle
Landabl, Florence A, SCI ... Spokane
Lang, Buel C, SCI ... Yakima
Lappenbusch, Marie, SCI ... Seattle
Lawrence, Charles W, Grad ... Seattle
Lawson, Florence A, Educ ... Seattle
Lawson, Jerry L, SCI ... Seattle
Lawson, Mildred A, SCI ... Seattle
Lawson, Ted, Educ ... Seattle
LeBlanc, Ada M, LA ... Seattle
LeClaire, Helen, LA ... Seattle
LeConte, Anne M, LA ... Seattle
LeDuc, Bill, SCI ... Seattle
LeFevre, Almer, Educ ... Seattle
LeHart, Charles L, SCI ... Seattle
LeHart, Margaret, SCI ... Seattle
LeMay, Katherine, LA ... Allenwater, Ont
Lemcke, Agnes M, LA ... Seattle
Lemire, Gertrude A, Grad ... Seattle
Lenning, William J, LA ... Port Townsend, Grad
Leonard, Alice, LA ... Seattle
Leonard, Arthur L, LA ... Seattle
Leonard, Mary J, SCI ... Seattle
LePere, R. Eve, SCI ... Portland, Ore
Lemond, Helen, LA ... Seattle
Lesch, Chester A, Law ... Seattle
Leslie, Eleanor M, LA ... Seattle
Leslier, Vernon M, Grad ... Portland, Ore
Lever, Carl J, Grad ... Seattle
Levin, Abe, Engr ... Seattle
Levy, Elmer A, SCI ... Seattle
Lewis, Fred E, LA ... Fairfield
Lewis, Hunter C, Grad ... Seattle
Lewis, Virginia N, Educ ... Spokane
Lewis, Wilma, Grad ... Seattle
Liddell, Alma A, FA ... Big Rapids, Mich
Likhvay, John, Grad ... Seattle
Lind, Anna R, LA ... Mt Vernon
Lindahl, Martin L, Grad ... Seattle
Lindblad, Edward, SCI ... Seattle
Lindell, Mildred, Grad ... Washburn, ND
Lindgren, Bert E, Fish ... Woodinville
Liraud, Thora, Educ ... Portland
Lippincott, Jane, SCI ... Seattle
Lister, Fraser, Grad ... Vancouver, BC
Liston, Edward J, Grad ... Seattle
Little, Janet L, SCI ... Seattle
Little, Agnes M, LA ... Emmett, Idaho
Little, Herbert, Grad ... Seattle
Little, Iris, LA ... Hermiston, Ore
Littlefield, Lena, Educ ... Seattle
Livingston, Louis, Grad ... Chehalis
Lloyd, Edna B, Educ ... Seattle
Locke, Clara B, Educ ... Everett
Lockhart, Patience, Educ ... Seattle
Loeffgen, Theodore A, Engr ... Seattle
Lomasson, Helen, Educ ... Clarkston
Lomkes, Madeline, Bus ... Seattle
Long, Agnes, Grad ... Seattle
Long, James G, SCI ... Seattle
Long, Katharine, LA ... Seattle
Long, Ruby O, Grad ... Cashmere
Long, Stanley B, Law ... Chehalis
Lopp, Helen L, SCI ... Redmond, CA
Lorach, Rose T, Educ ... Alexandria, Ind
Lorenzen, Hilda M, Educ ... Pendleton, Ore
Lotter, Charles L, Grad ... New Orleans
Loring, Lucien, Educ ... Portland, Ore
Lotthor, Rex E, Grad ... Corvallis, Ore
Love, Grover Allen, Educ ... Snohomish
Loving, Evelyn, SCI ... Chico, Lewis
Lowary, Thaddeus A, Bus ... Polemon
Low, Ben F, Grad ... Tacoma
Lowe, Agnes G, Grad ... Seattle
Lowry, Rozkie K, Educ ... Harrisburg, Ill
Luce, Florette O, Educ ... Denver, Colo
Lucas, Helen M, Grad ... Bremerton
Lubke, Dorothy, Sci ... Bandon, Ore
Lucrce, James, Educ ... Corvallis, Ore
Lunde, Alfred, SCI ... Douglas, ND
Lundgren, Ethel A, SCI ... Seattle
Lustermann, Marcella, FA ... Blaine
Luther, Nyla R, Grad ... Helena, Mont
Lyle, Kathleen H, Educ ... Seattle
Lynch, Elbert, LA ... Yakima
Lynch, Pauline, Educ ... Los Angeles, Calif
Lynn, Austin, LA ... Seattle
Lynn, Elma, Educ ... Seattle
Lyon, Laura A, Educ ... Seattle
Lyon, Margaret A, FA ... Bay City, Mich
Lyst, Miriam, Educ ... Ellwood, Ind
MaCabe, Dansie O, Grad ... Natchitoches, LA
McAleer, Maria, SCI ... Denver, Colo
McAllister, Marion, Grad ... Seattle
McAnally, Carrie, LA ... Yakima
McAskey, Laura J, Educ ... Seattle
McAulay, John F, LA ... Yakima
McCabe, Anne R, SCI ... Wenata, Ore
McCall, Lillian G, LA ... Mt Vernon
McColllister, George W, Educ ... Tulare, Calif
McConnell, Bertha R, Educ ... Turlock, Calif
McCann, Ethel M, Educ ... Lat, Wis
McCarty, George, Grad ... Utah
McCarthy, Julia, Educ ... Seattle
McCarthy, Margaret H, Grad ... Seattle
McClain, Mary O, LA ... Kerby, Ore
McQuillen, Roseanna, Bus...... Tacoma
McQuillen, Mary F, Grad...Galveston, Tex
McRae, Florence, Educ...... Seattle
McReavy, Grace H, Educ...... Seattle
McVay, John P, Sci...... Seattle
Macdonald, Aristelle, FA...... Seattle
Macfarlane, Lorna, Grad...... Seattle
Mackenzie, Mabel, R.N...... Phoenishur
Mackey, Florence, LA...... Tacoma
Maconner, Leone Faris, Grad...... Milan
Madison, Ada, Grad...... Afton, Wyo
McArdle, Frances, LA...... Vancouver, BC
McAulay, Myrtle Adele, Grad...... Fargo, ND
McDonald, William J, Grad...... Seattle
Magnus, Ida Louise, LA...... Seattle
Mahaffey, Audley F, Grad...... Monroe
Mahrt, David F, Educ...... Seattle
Mahrt, Elise, LA...... Reardan
Major, Georgia E, Sci...... Seattle
Major, Sidney W, LA...... Seattle
Mallory, Gladys, Educ...... Afton, Wyo
Mallory, John C, Educ...... Afton, Wyo
Mallough, John G, Grad...... Afton
Malone, Celestia, LA...... Webster, ND
Manley, Catherine, LA...... Seattle
Manly, William, LA...... Ulm
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Mar, Teh-Chien, Engr...... Foochow, China
March, Lindsay J, Grad...... Dover
Marion, Helen, LA...... Seattle
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Mark, Lee E, Educ...... Seattle
Marquis, Ralph W, Grad...... Bellingham
Marsh, Doris V, LA...... Arlington
Marsh, Harold B, LA...... Seattle
Marshall, Vera Frances, LA...... Vancouver, BC
Marsala, Doris E, LA...... Sultan
Marston, C May, Grad...... Seattle
Martel, Virginia, LA...... Seattle
Martin, Amy E, Grad...... Salem, Ore
Martin, Byrum L, Sci...... Spokane
Martin, W Charles, Sci...... Seattle
Martin, A Fern, LA...... Phoenix, Ariz
Martin, Irma L, Grad...... Spokane
Martin, Marion M, LA...... New York City
Martin, Robert Ray, LA...... Seattle
Martin, Thomas E, LA...... Beaver Falls
Martin, Trula, Grad...... Seattle
Martin, Viola E, Educ...... Spokane
Martinec, Patricia, LA...... Las Vegas
Mason, Edith G, Sci...... Rock
Mason, Robert H, Bus...... Seattle
Masterton, Robert B, Educ...... Kamloops, BC
Mother, Archibald J, Grad...... Seattle
Matheslon, Margaret J, LA...... Glendale, Mont
Mathews, Wm L, Grad...... Tacoma
Matthewson, Margaret J, Grad...... Bellingham
Mattock, Benjamin F, LA...... Chehalis
Matunus, Eva, Educ...... Seattle
Maus, Mildred, Grad...... Seattle
Maus, Ruth M, LA...... Boise, Idaho
Mayhew, Isabella, Grad...... White Salmon
Mead, Lawrence, Grad...... Lead
Meader, Florence A, Educ...... Puyallup
Meadows, Stanley D, Grad...... Vancouver, BC
Medcalf, Winkle, Educ...... Post Falls, Idaho
Meeks, Rose, FA...... Afton
McEwan, Cheristine, Mo...... Chelan
McGowan, Rebecca, Grad...... Sheridan, Wyo
Meeser, Esther F, Bus...... Bremerton
Meidinger, William, Grad...... College Place
Meilman, Zillah M, Educ...... Tacoma
Menard, Al J, Engr...... Seattle
Mendenhall, George, LA...... Medford
Merchant, Jessie, Grad...... Mt Vernon
Merrill, Edith, FA...... Richland
Merritt, Velma, FA...... Richland
Merriman, Goldie, Sci...... Erie, Pa
Michelson, Yale, LA...... Westminster
Moeck, Hilda, Bus. ................. Spokane
Metcalf, Emma, Educ. .............. Seattle
Metcalf, Louis C., Educ. ............ Seattle
Mettler, Gordon E., LA. .......... Seattle
Mets, Myrtle, LA. .................. Post Falls, Ida
More, Bertha, Educ. ............... Seattle
Meyer, Ida Marie, Educ. .......... Roundup, Mont
Meyer, Louise H., LA. ............. Tacoma
Meyer, Mere Gavlin, LA. ......... Seattle
Meyer, Rand B., Educ. .......... Seattle
Meyer, Walter T., Educ. ............ Ferndale
Meyers, Fred, Bus. ................. Seattle
Michelson, Helen A. E., Bus. .... Kellogg, Ida
Middaugh, Ellen, LA. ............. Seattle
Midgarden, Esther, Educ. ......... Seattle
Miesic, Lilian G., Educ. ........... Lidgerwood, ND
Mignon, Emmett, L. ............... Seattle
Miller, Olive C., Educ. .......... Seattle
Miller, Cary D., Grad. .......... Honolulu, HI
Miller, Carrie Lowry, Educ. ...... Seattle
Miller, Dorothy Fay, Bus. ........ Seattle
Miller, Edith L., LA. ............. Spokane
Miller, Elea M., LA. .............. Seattle
Miller, Ethel L., Educ. .......... Seattle
Miller, Helen Edythe, LA. ....... Seattle
Miller, Julia E., Educ. .......... Wilkeson
Miller, Mary, Educ. ............... Seattle
Miller, Mervyn B., Grad. ....... Seattle
Miller, Paul H., Bus. ............. Seattle
Miller, William S., Bus. ........ Seattle
Miller, Thomas K., LA. .......... Waterville
Miller, Violet, LA. ............... Manitowoc, Wis
Millean, Jessie E., LA. ......... Marysville
Millman, Ida, Educ. .............. Seattle
Millman, Loren H., Grad. ....... Seattle
Mills, Elizabeth M., Grad. ....... Seattle
Mills, Melba, FA. ................. Aloha
Mnaker, Cecil W., Bus. ........... Seattle
Minter, Edith M., Educ. .......... Bellingham
Minter, Eva Lee, Grad. .......... Tacoma
Minter, Grace E., Grad. .......... Bellingham
Minter, May, LA. .................. Spokane
Mines, Gwendolen L. FA. ......... Seattle
Mink, Myrtle, Educ. .............. Bellingham
Mkath, Anne M., LA. ............. Yakolt
Mkath, Gertie E., LA. ............ Yakolt
Mitchell, Evelyn, Educ. .......... Wheeler
Mitchell, Hazel Louise, FA. ...... Seattle
Mitchell, John G., LA. ......... Bureka, Cal
Mitchell, Mary Sidney, LA. ...... Wheeler
Mitchell, Paul, Educ. ............. Prosser
Moe, Orville O., LA. ......... Watford City, ND
Moenring, Esther, FA. .......... Snohomish
 Moffett, Ruth Pauline, Grad. .... Woodinville
 Moffitt, David D., SCI. ........ Seattle
 Moffitt, Solano, Educ. .......... Creston
Moller, Helen B., FA. ............ Seattle
Moller, Irvin, Educ. .............. Seattle
Monday, Sybil, LA. ............... Seattle
Moen, E May, Educ. .............. Port Orchard
Moensen, Hildegard B., LA. ...... Seattle
Monta, Adelina, Bus. ............. Seattle
Montag, Adeline, Bus. .......... Seattle
Montesi, Gertrude V., LA. ...... Minto, ND
Montgomery, Tom, LA. ........... Paynup
Moody, Deane H., Grad. ......... Wenatchee
Moody, Noble S., Grad. .......... Spokane
Moody, Gertrude E., LA. ....... Seattle
Moore, Berina S., Grad. .......... Seattle
Moore, Helen L. ................. Seattle
Moore, John Henry, Educ. ...... Seattle
Moore, Karen E., Educ. .......... Everett
Moore, Mabel M., Educ. .......... Washngton
Moore, Ruth Lora, LA. ............ Tacoma
Moore, Ruth M., Educ. .......... Blaine
Morgan, Dora, Educ. ............. Seattle
Morgan, Kathryn M., Bus. ...... Seattle
Morgan, Mabel, Educ. .......... Washngton
Morgan, Ruth Lora, LA. ......... Tacoma
Morgan, Ruth M., Educ. .......... Blaine
Moran, Louis, Bus. .............. Seattle
Merck, Ethel Poole, FA. ........ Seattle
Borgan, Corn, Educ. ............. Seattle
Morgan, Kathryn M., Bus. ...... Seattle
Morgan, Marjorie, SCI. ........ Cabarton, Ida
Morgan, Miles E., Grad. ......... Seattle
MorriI, Helen, LA. ............... Butlal
Phillips, Lucy A, Grad: Springville, Utah
Phillips, Mary H, LA: Seattle
Phillips, May A, LA: Seattle
Phillips, Edson G, Bus: Mt Vernon
Phelan, Frank G, LA: Kent
Phelan, Ward L, LA: Bellingham
Pickett, Evelyn A, Grad: Spokane
Pickford, Mary D, Grad: Seattle
Pierron, Richard F, LA: Bellingham
Pilkington, Phyllis, LA: Portland, Ore
Piper, Lily, Educ: Nanaimo, BC
Pitman, Charlotte, Educ: Seattle
Plamondon, Virginia, FA: Seattle
Plank, Faye, Grad: Seattle
Price, Ruth J, Grad: Hereford, Tex
Price, William F, Grad: Fall City
Polee, Bonnie L, Grad: Seattle
Polee, Florence A, Grad: Seattle
Polee, Josephine M, Grad: Seattle
Polly, Ward S, LA: Coulee
Pope, Jessie M, LA: Bellingham
Porter, Lillian E, LA: Yakima
Portman, Frieda, Grad: Aberdeen
Posey, Naomi M, Educ: Millwood
Poulton, Anna L, LA: Tacoma
Post, Edith, Grad: Seattle
Potter, Lois C, Sci: Bremerton
Pottor, Ruth A, Sci: Seattle
Powell, Ceci M, FA: Mont
Potts, Edward L, LA: Seattle
Pounds, Viola D, LA: Dayton
Poulton, After F, LA: Seattle
Powell, Josephine, LA: Chehalis
Power, George R, LA: Seattle
Power, Frances F, Grad: Tacoma
Powhida, Hildy R, LA: Seattle
Poynter, Almeda M, Grad: Everett
Pribble, Mary E, LA: Anoka, Minn
Pribble, Frank L, LA: Edmond, Okla
Price, Lillian, Bus: Lynden
Price, M May, LA: Seattle
Price, Rebeca A, LA: Vale, Ore
Priet, Virginia, Sci: Seattle
Pigge, Doris A, Educ: Ada, Minn
Pigg, Frances E, LA: Lamboy, BC
Pickett, Ethel E, LA: Vancouver
Pugh, Anne C, Grad: Seattle
Pugh, Louise K, Grad: Seattle
Puglisi, Lucy, LA: Hazel
Puglisi, Harriet, Grad: Seattle
Purcell, Denis J, Sci: Lacey
Purves, Neil H, Educ: Seattle
Putnam, Gertrude E, LA: Alderwood Manor
Tyler, Francis J, Educ: South Bend, Ind
Quam, Ellen, Educ: Bellingham
Queen, John, Grad: Silver Cable
Quigley, Ethel M, LA: Seattle
Quigley, Bernardette, Educ: Spokane
Quigley, Grace L, LA: Lamboy, BC
Quigley, Edwin H, Educ: Elma
Quigley, Mary J, Educ: Seattle
Quist, Xira F A, Educ: Naparina
Rambo, Lena, Educ: Davenport
Ramstadt, Mary, LA: Wallace, Ida
Randall, Arthur, Bus: Seattle
Randall, Delta, LA: Seattle
Randall, Josephine, Educ: Seattle
Rapp, Mary Elizabeth, LA: Spokane
Rausch, Emma M, Educ: June City, Ore
Rathbone, Mary J, LA: Hamilton, Ohio
Raw, Ruth M, Grad: Akron, Ohio
Rawlings, Emily, LA: Houston, Texas
Ray, Vera F, LA: Seattle
Raymond, Gertrude, Grad: Seattle
Reading, Jennie L, LA: Seattle
Redden, Dan, Bus: Clarkston
Redmond, Ruth L, LA: Snohomish
Reed, Elizabeth M, Grad: Seattle
Reed, Emily S, Sci: Seattle
Reed, Jennie M, Grad: Tacoma
Reed, Paul M, Grad: Walla Walla
Reed, Ruth, Bus: Redmond
Rees, Florence A, Grad: Walla Walla
Reese, Marie, Educ: Startup
Richter, Marguerite, Sci: Seattle
Ridley, Anna E, LA: Seattle
Riehman, Madeline C, LA: Portland, Ore
Reikens, Christine, LA: Bothell
Reineke, Greta, LA: Seattle
Remley, Miriam, Grad: Dryden
Renshaw, Edith I, FA: Spokane
Renshaw, Minard R, Sci: Wenatchee
Rice, Arland M, E: Seattle
Richards, Eugene, Sci: Seattle
Richards, Ida L, Educ: Salt Lake City, Ut
Richards, James, LA: Roswell
Richardson, Ethel M, LA: Seattle
Richardson, Vera C, LA: Tacoma
Riches, Doris E, Bus: Seattle
Richman, Ethel H, Sci: Anchorage, Ala
Rickel, Ruth, LA: Spokane
Riddle, Elise W, Grad: Seattle
Riggs, Clara J, LA: Seattle
Riggs, Janet W, LA: Evanston, Wyo
Riley, Betty, Educ: Bellingham
Ricks, John, LA: Seattle
Rina, Arthur H, Grad: Seattle
Rist, Donald E, LA: Seattle
Riste, Victor, LA: Onalaska
Rivers, Ralph J, Law: Fairbanks, Alas
Roach, Marion R, Grad: Bellingham
Robarge, Edmero A, Educ: Buffalo, Minn
Robbins, C J, Grad: Santa Barbara, Calif
Robbins, Marion L, Educ: Butte, Mont
Robe, Cecil F, Grad: Seattle
Roberts, Beatrice, LA: Spokane
Roberts, Helen B, Educ: Tacoma
Roberts, Ina S, LA: Butte, Mont
Roberts, Mary C, Sci: Yakima
Roberts, Myrtle, LA: Seattle
Roberson, Jorgolin, LA: Lakeview, Ore
Robin, Frederick H, LA: Seattle
Robin, Lydia J, Educ: Bellingham
Robinson, Alice L, LA: Edmonton, Alta
Robinson, Clyde A, LA: Pinehurst
Robinson, Edward C, Educ: Bellingham
Robinson, Emma, For: Seattle
Robison, B H, Educ: Seattle
Robison, Floyd L, LA: Rainier, Ore
Rock, Estella C, FA: Seattle
Rock, Jean S, Educ: Seattle
Rockhill, Luella, Educ: Dayton
Rodell, Lucetta, Bus: Seattle
Roeders, Mary E, LA: Seattle
Roemer, A J, Grad: Seattle
Rogers, Evelyn A, Grad: Bellingham
Rogers, Ellis H, Educ: Tacoma
Rogers, Esther M, Educ: Seattle
Rogers, Josephine T, Educ: Spokane
Rogers, Mary B, Educ: Kansas City, Mo
Rogers, Vivian, Educ: Spokane
Rogers, Vivian, Educ: Spokane
Rogers, Vivian, Educ: Spokane
Rogers, Vivian, Educ: Spokane
<table>
<thead>
<tr>
<th>Name</th>
<th>Graduation Location</th>
<th>City</th>
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<tbody>
<tr>
<td>Shultz, Celia B.</td>
<td>Aberdeen</td>
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<tr>
<td>Sicade, Sarah B.</td>
<td>Tacoma</td>
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<td>Sidherin, Dorothy J.</td>
<td>Butte, Mont</td>
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<td>Sielk, William H.</td>
<td>Auburn</td>
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<td>Sides, T. C.</td>
<td>P., Fia, Kan</td>
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<td>Siggelke, Marguerite A.</td>
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<td>Silver, Judith F.</td>
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<td>Silvergrove, Robert X.</td>
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<td>Silvers, Josephine G.</td>
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<td>Sim, Ida Grace S.</td>
<td>Wilkeson</td>
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<td>Simon, Henrietta L.</td>
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<td>Simpson, Elizabeth F.</td>
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<td>Simpson, John W.</td>
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<td>Simpson, Lurline V.</td>
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<tr>
<td>Sister Anna Foley, S.</td>
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<td>Sister Dolores Pittendrigh, F.</td>
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<td>Sister Dorothy Lezant, F.</td>
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<td>Sister Elizabeth Clare, E.</td>
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<td>Sister Father Mary, E.</td>
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<td>Sister Genevieve Gough, S.</td>
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<td>Sister Magdalene of Prov, S.</td>
<td>Missoula, Mont</td>
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<td>Sister Mary Agnella, G.</td>
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<td>Sister Mary Alexander, G.</td>
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<td>Sister M Ambrosia, R.</td>
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<td>Sister Mary Andrea, L.</td>
<td>Yakima</td>
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<td>Sister Mary Eunice, L.</td>
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<td>Sister M Margaret of St Dominic, Educ.</td>
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<td>Centralia</td>
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<td>Sister M Regina, F. A.</td>
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<td>Bremerton, Mont</td>
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<td>Sister M Rose de Lima, E.</td>
<td>Educ.</td>
<td>Everett</td>
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Summer Quarter Students—1927

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Steffen, Marion, LA ....... Seattle
Stillings, Margaret B, Grad... Yakima
Stillman, Margaret, LA .... Eugene, Ore
Stillman, Laura, PA ....... Eugene, Ore
Stillman, Lucile, LA ....... Seattle
Stinson, Harry L, LA ...... Seattle
Stinson, Howard R, Bus ... Spokane
Stitt, Margaret N, Sci .... Seattle
Stoddard, Inez Z, Educ ... Rathdrum, Ida
Stoddard, Orren D, Grad ... Seattle
Stoll, Laura D, Educ ....... Seattle
Stoll, Pauline K, Educ ... Sheffield, Ia
Stoltzenberg, Julia A, Educ... Howardia, Ia
Stone, Ellen E, Jour ... San Antonio, Tex
Stone, Emma D, LA ...... Seattle
Stone, Ida, LA ............ Seattle
Stone, Lucien May, Grad ... Seattle
Stone, Rose, LA, Eng ....... Seattle
Stone, E Viola, LA ....... Thornton
Stoneman, Vernon, Law .... Seattle
Storv, Ralph E, Grad ....... Kirkland
Story, Grace, Educ ......... Valley
Studier, Mildred I, FA ... Shensandoah, Ia
Stouwassen, Frances, Grad... San Francisco, Calif
Stowell, Ernest F, Educ ... Seattle
Straight, Robert, Grad ...... Vancouver, BC
Streator, Gertrude I, Grad ... Seattle
Strong, Ada G, Educ ....... Seattle
Strong, James H, Engr .... Seattle
Strong, Virginia, LA ....... Seattle
Stull, H C, Grad ...... Seattle
Stubbfield, Laura, Educ ... Walla Walla
Stuber, Esther E, LA ...... Bellingham
Studor, Nollie, Educ ....... Kent
Sugimachi, Yaezutsu, LA ... Japan
Sullivan, Angela, Educ ... Seattle
Sullivan, Elva L, Grad ..... Seattle
Sullivan, Jennie B, Educ ... Seattle
Sullivan, Julia, LA ....... Butte, Mont
Sullivan, Nellie, LA ...... Seattle
Summers, Wayne, LA ....... Seattle
Sundeen, Helen, Educ ....... Anacortes
Suppiger, Bernice, Grad ... Moscow, Ida
Suppiger, Elma B, Educ ... Moscow, Ida
Surbeck, Flora, LA ....... Walla Walla
Sutton, Colleen C, LA ...... Port Orchard
Swezey, Augusta, LA ....... Seattle
Suzuki, Ethel, Bus ......... Seattle
Swan, Norm J, LA ....... Mt Vernon
Swanson, Christine M, LA ... Oakes, ND
Swanson, Clarence L, Educ ... Butte, Mont
Swanson, Florence L, Grad ... Troy, Mont
Swanson, Ruby, Grad ...... Troy, Mont
Swede, Agnes, LA ....... Seattle
Sweet, Theodore, LA ...... Redmond
Sweet, Florence, Educ ...... Pendleton, Ore
Sweet, Helen E, Grad ...... Foscatoia, Ida
Swenson, Roy F, LA ....... Seattle
Swingle, Ruth E, Grad ... Seattle
Syre, Melvin G, Educ ....... Everson
Teake, Frances A, LA ....... Minto, ND
Teveler, Florence M, FA, Opp... Seattle
Thayer, James D, Sci ....... Seattle
Thayer, Jean F, Grad ...... Everett
Theo, Margaret E, Grad ... Seattle
Thom, Amelia E, LA ...... Spokane Bridge
Thomas, Edgar, LA ....... Seattle
Thomas, Paul M, Educ ...... Sheridan, Wyo
Thomas, Ethyle, Educ ....... Seattle
Thomas, Ferne, LA ....... Seattle
Thomas, George W, FA ... Seattle
Thomas, John H, Grad ...... Walla Walla
Thomas, Leuty K, LA ...... Seattle
Thomas, Owen J, Educ ... Vancouver, BC
Thomas, Pauline, Educ ....... Portland, Ore
Thomas, Rosece G, Grad .... Seattle
Thompson, Aletha, Grad ... Seattle
Thompson, Arthur, LA ...... Tacoma
Thompson, Gertrude, Educ ... Yakima
Thompson, Gladys N, Sci, Kamloops, BC
Thompson, Glen M, Phar .... Seattle
Thompson, Henry E, LA ...... Seattle
Thompson, Henry N, Bus ... Seattle
Thompson, Julia, Grad ...... Seattle
Thompson, L B, Grad ...... Twin Bridges, Mont
Thompson, Lois D, Grad ... Olympia
Thompson, Myrtle, FA ... Mt Vernon
Thompson, Paul, LA ....... Seattle
Thompson, Randall, Sci .... Seattle
Thomson, Harry S, LA ....... Seattle
Thomson, Mary, LA ....... Seattle
Thomson, Stuart, LA ..... Seattle
Thoreson, Mabel, FA ...... Sioux Falls, SD
Thorstenson, Ida, LA ....... Seattle
Thorstenson, Sallie, LA .... Portland, Ore
Thune, Alta L, Educ ...... Ada, Minn
Thuygeson, Margaret, Grad ... Ridgefield
Tibbits, Rose, LA .......... Seattle
Tietjen, William T, Educ ... Seattle
Tiffany, Alice R, Educ .... Seattle
Tiffany, Martha J, Educ ...... Bremerton
Tilden, Iva A, Educ ...... Juneau, Alaska
Timbers, Howard E, Grad ... Seattle
Tinker, Myrtle, LA ....... Houston, Tex
Tipp, Leonard, LA ...... Seattle
Tippett, Wilma, FA ... Seattle
Tjrom, Vone, LA, Educ ... Seattle
Todd, Mary J, Educ ...... Redlands, Calif
Toner, Martin E, LA ....... Lacey
Tong, Icela, LA .......... Portland, Ore
Tonehman, Laura, Educ ... Bums, Ore
Tormey, Mildred E, Educ, Nine Mile Falls
Townsend, Ethel, LA ....... Seattle
Townsend, Mary A, LA ...... Seattle
Touster, Jewel M, Grad ....... Boise, Idaho
Tracy, Ethel, Educ ... Seattle
Travis, Marguerite, Grad ... Duluth, Minn
Truelsen, Ben E, Educ ...... Hoquiam
Tressler, Mary A, LA ...... Coquimba, Pa
Truett, Fred G, Bus ....... Gig Harbor
Trumble, E Stewart, Educ ... Seattle
Trow, Florence, Bus ....... Seattle
Troy, Smith, LA ...... Olympia
True, Elizabeth, Educ ....... Seattle
Trueblood, Henry E, Grad ... Yakima
Trullinger, John, LA ...... Seattle
Tummey, Harry F, Educ ... Tacoma
Tucker, William G, LA ....... Richland, Wash
Tuell, E Irving, Sci ...... Tacoma
Turnbull, Addie J, Educ ... Spokane
Turnbull, Bess, LA ....... Seattle
Turner, Catherine M, Educ .... Chehalis
Turner, Cecilia H, Grad ... Everett
Turner, Charlotte F, LA ....... Seattle
Turner, Clara S, Sci ........ Philadelphia
Turner, Daisy E, LA ...... Spokane
Turner, R Elizabeth, LA ...... Seattle
Turner, Homer E, LA ....... Seattle
Turner, Leon F, LA ....... San Antonio, Tex
Walker, Lloyd E, Grad........Chehalis
Turner, Mabel I, Educ........Tumwater
Turner, Mary, Grad........Woodinville
Turner, Mary Elizabeth, F.A. ....Spokane
Tuttle, Charlotte L, Grad ......Painesville, Ohio
Twombly, Ardus J, Bus ......Everett
Turner, Elizabeth, Sci........Seattle

Van Cleve, Maude B, Educ.Kan City, Kau
Vanderpek, Geraldine, Sci.........Seattle
Van Genderen, Flora E, Educ.........Seattle
Van Duzee, Jeannette E, Grad.Tillamook, Ore
Van Ertten, Flold, LA........Bellingham
Van Frank, Esther N, Sci........Seattle
Van Horn, Florence, Grad........Seattle
Van Horn, Elizabeth, Educ......Seattle
Van Horn, Esther, Grad........Seattle
Van Honstein, Lois, Grad..........Seattle
Van Liew, Frances, LA ..........Seattle
Van Orsdall, Orval P, Grad..........Seattle
Van Vleet, Cecil S, Grad.........Seattle
Van Winkle, Edith, Grad..........Seattle
Van Winkle, Marian, LA Puyallup
Van Voss, Andult, Bus........Seattle
Vanleigh, Alice O, Educ........Spokane
Van, Watson Constance, LA ..........Seattle
Vera Cruz, Marcos, Sci........Philippines
Verity, Arts M, LA...........Prosser
Vesser, Mary, Grad.............Coeur d'Alene, Ida
Vestal, Marie, Grad........Snomish
Vetting, Ida F, LA ........Seattle
Victor, Don, Bus................Seattle
Vidorre, Procopio, LA ..........Philippines
Voss, Berness, Seattle........Seattle
Vstrand, Paul, Sci................Seattle
Voslach, John, Bus.............Seattle
Vost, Albert C, Grad..............Seattle
Voutilta, Leona T, LA......Spokane
Voight, Edna E, LA..............Seattle
VonHelden, Glory, LA........Seattle
Vougeot, E. E, Grad..............Seattle
Vos, Marjorie G, LA...........Grand Rapids, Mich
Voss, Mabel A, Sci...........Eau Claire, Wis
Votteler, Gretchen F, Sci........Waukesha, Wis
Waddell, Howard J, Educ........Tacoma
Wade, William B, FA........Sumner
Wadsworth, Winfred, FA........Tacoma
Wahl, Lenora M, LA........Seattle
Walt, Therma C, Grad........Seattle
Walt, Wallace T, Grad........Seattle
Walbo, Josephine A, Grad........Seattle
Walker, Bertha, Grad.............Seattle
Walker, Vera, Educ..............Seattle
Wall, Helen, Educ..............Pineo, ND
Wall, Kathleen, LA...........Seattle
Wallace, Elizabeth W, Educ........Bellingham
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Wallace, Henry C, Star 1, LA
Wallace, Vera, Grad.............Seattle
Walrath, Georgia L, LA........Portland, Ore
Walsh, Inez J, Educ.............Seattle
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Wang, Ruth, Grad........Seattle
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Wardman, Katherine P, LA........Seattle
Ware, Elva, LA................Seattle
Waryo, Anna M, LA..............Cle Elum
Warner, Grace, LA........Seattle
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Warren, Raymond, LA............Pendleton, Ore
Warren, Lulu M, LA............Centralia
Warwick, Ethel M, Educ........Pasco
Washington, Lillian, LA ........Seattle
Wasson, Josephine, Educ.........Seattle
Watson, John E, LA........Upland, Mich
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Watkins, Minnie J, Grad........Seattle
Watson, Anna E, Grad........Seattle
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Watson, Wilson, LA........Seattle
Watt, Katheryn L, LA........Spokane
Watt, Verne S, Engr........Seattle
Watts, Mary H, LA............Seattle
Weage, Mary D, Grad........Seattle
Weaver, Letta L, LA........Seattle
Weber, Carol H, LA........Minneapolis, Minn
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SUMMARY OF ENROLLMENT
1927-1928
## SUMMARY OF ENROLLMENT—1927-28

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### Notes:
- Columns 1, 2, 4, 5 and 6 represent census figures; i.e., the enrollment taken on a stated day within the first month of a term or quarter. Columns 3 and 7 show figures representing the number of individuals registered; Column 3 the number registered during the summer quarter; Column 7 the number registered during the academic year.
- For comparison with other institutions, the figures in columns 3 and 7 should be used, as these are the customary catalog figures.
## SUMMARY OF ENROLLMENT—1927-28

### II. By Classes

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### Notes:
- Columns 1, 2, 4, 5 and 6 represent census figures; i.e., the enrollment taken on a stated day within the first month of a term or quarter. Columns 3 and 7 show figures representing the number of individuals registered; Column 8 the number registered during the summer quarter; Column 7 the number registered during the academic year. For comparison with other institutions, the figures in columns 8 and 7 should be used, as these are the customary catalog figures.

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### Total

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