Oregon State System of Higher Education
BULLETIN
Published by
Oregon State Board of Higher Education
Eugene, Oregon
for
Oregon College of Education
Monmouth, Oregon

NUMBER 130
APRIL 20, 1955

Published seven times yearly, by the State Board of Higher Edu-
cation, once in March, three times in April, twice in May,
one in December. Entered as second-class matter at the Post
Office at Eugene, Oregon, March 12, 1932.

COVER PICTURE
Faculty office wing of OCE's new Humanities and
Social Science building.
Oregon
College of Education
CATALOG

Monmouth, Oregon
The Oregon State System of Higher Education was organized in 1932 by the State Board of Higher Education following a survey of higher education in Oregon by the U. S. Office of Education. Member institutions are elements of an articulated system, parts of an integrated whole. The educational program is so organized as to distribute as widely as possible throughout the state the opportunities for general education and to center on a particular campus specialized, technical, and professional curricula closely related to one another.

The institutions of the state system of higher education are Oregon State University at Corvallis, the University of Oregon at Eugene, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The Division of Continuing Education, representing all the institutions, has offices in Ashland, Corvallis, Eugene, La Grande, Monmouth, Portland, and Salem.

At Oregon College of Education, Southern Oregon College, and Eastern Oregon College, students may complete major work in teacher education or general studies or enroll in a preprofessional program. Southern Oregon College also offers a major program in business.

Portland State College offers major work in general studies, liberal arts, and selected professional fields, as well as certain preprofessional programs.

At the University of Oregon and Oregon State University, major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified state system of higher education.

Oregon Technical Institute offers technological curricula leading to associate degrees in technical and semi-professional areas.

An interinstitutional booklet, Your Education, which outlines the curricula of the several institutions and contains other information, is available. For a copy, write to Division of Publications, Board of Higher Education, P.O. Box 5175, Eugene, Oregon 97403.
State Board of Higher Education*

<table>
<thead>
<tr>
<th>Name</th>
<th>Term Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAY T. YASUI, Hood River</td>
<td>1965</td>
</tr>
<tr>
<td>RALPH E. PURVINE, Salem</td>
<td>1965</td>
</tr>
<tr>
<td>JOHN MERRIFIELD, Portland</td>
<td>1966</td>
</tr>
<tr>
<td>CHARLES R. HOLLOWAY, JR., Portland</td>
<td>1967</td>
</tr>
<tr>
<td>ELIZABETH H. JOHNSON, Redmond</td>
<td>1968</td>
</tr>
<tr>
<td>JOHN W. SNIDER, Medford</td>
<td>1969</td>
</tr>
<tr>
<td>J. W. FORRESTER, JR., Pendleton</td>
<td>1969</td>
</tr>
<tr>
<td>PHILIP A. Joss, Portland</td>
<td>1970</td>
</tr>
<tr>
<td>GEORGE LAYMAN, Newberg</td>
<td>1970</td>
</tr>
</tbody>
</table>

Officers

CHARLES R. HOLLOWAY, JR. President
J. W. FORRESTER, JR. Vice President
RALPH E. PURVINE Member
Executive Committee

ROY E. LIEUALLEN, Chancellor
RICHARD L. COLLINS, Secretary of Board

Office of the State Board of Higher Education
Post Office Box 5175
Eugene, Oregon 97403

* Board members are appointed to six-year terms by the Governor of Oregon, with confirmation by the State Senate.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oregon State System of Higher Education</td>
<td>2</td>
</tr>
<tr>
<td>State Board of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>Academic Calendar 1965-1966</td>
<td>6</td>
</tr>
<tr>
<td>General Information</td>
<td>9</td>
</tr>
<tr>
<td>Requirements for Degrees and Certificates</td>
<td>31</td>
</tr>
<tr>
<td>Academic Procedures and Regulations</td>
<td>33</td>
</tr>
<tr>
<td>Undergraduate Curricula</td>
<td>37</td>
</tr>
<tr>
<td>Honors Program</td>
<td>37</td>
</tr>
<tr>
<td>Teacher Education Programs</td>
<td>42</td>
</tr>
<tr>
<td>Kindergarten Curriculum</td>
<td>42</td>
</tr>
<tr>
<td>Elementary Curriculum</td>
<td>42</td>
</tr>
<tr>
<td>Junior High School Curricula</td>
<td>47</td>
</tr>
<tr>
<td>Senior High School Curricula</td>
<td>49</td>
</tr>
<tr>
<td>Specialized Programs in Dual Elementary and Secondary Levels</td>
<td>54</td>
</tr>
<tr>
<td>Music Education</td>
<td>54</td>
</tr>
<tr>
<td>Art Education</td>
<td>55</td>
</tr>
<tr>
<td>Teaching Minors</td>
<td>57</td>
</tr>
<tr>
<td>General Studies</td>
<td>61</td>
</tr>
<tr>
<td>Lower Division Liberal Arts and Sciences</td>
<td>63</td>
</tr>
<tr>
<td>Preprofessional Curricula</td>
<td>64</td>
</tr>
<tr>
<td>Summer Session</td>
<td>74</td>
</tr>
<tr>
<td>Inter-Session</td>
<td>75</td>
</tr>
<tr>
<td>Graduate Study</td>
<td>77</td>
</tr>
<tr>
<td>Education Specialists</td>
<td>87</td>
</tr>
<tr>
<td>Master of Arts in Teaching</td>
<td>91</td>
</tr>
<tr>
<td>Description of Courses</td>
<td>93</td>
</tr>
<tr>
<td>Art</td>
<td>93</td>
</tr>
<tr>
<td>Education and Psychology</td>
<td>96</td>
</tr>
<tr>
<td>Counseling</td>
<td>105</td>
</tr>
<tr>
<td>Educational Administration</td>
<td>106</td>
</tr>
<tr>
<td>Educational Media Specialist</td>
<td>106</td>
</tr>
<tr>
<td>Special Education Programs</td>
<td>107</td>
</tr>
<tr>
<td>Extreme Learning Problems</td>
<td>107</td>
</tr>
<tr>
<td>Mentally Retarded</td>
<td>108</td>
</tr>
<tr>
<td>Speech Correction</td>
<td>108</td>
</tr>
<tr>
<td>Teaching the Deaf</td>
<td>109</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>109</td>
</tr>
<tr>
<td>Home Economics</td>
<td>112</td>
</tr>
<tr>
<td>Humanities</td>
<td>112</td>
</tr>
<tr>
<td>Writing</td>
<td>112</td>
</tr>
<tr>
<td>English</td>
<td>113</td>
</tr>
<tr>
<td>Humanities, Philosophy and Religion</td>
<td>114</td>
</tr>
<tr>
<td>Journalism</td>
<td>115</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>115</td>
</tr>
</tbody>
</table>
# Oregon College of Education

## Fall Quarter 1965

- **Freshman Days and registration of entering students**  
  *Monday through Saturday, September 20-25*

- **Registration of returning students**  
  *Saturday, September 25*

- **Classes begin**  
  *Monday, September 27*

- **Late registration fee effective**  
  *Monday, September 27*

- **Last day for new registration or addition of a new course**  
  *Saturday, October 9*

- **Change of program fee effective**  
  *Monday, October 11*

- **Last day for dropping a course without being responsible for grade**  
  *Saturday, October 23*

- **Thanksgiving Holiday**  
  *Thursday-Sunday, November 25-28*

- **Final examinations**  
  *Monday-Saturday, December 13-18*

- **Fall quarter ends**  
  *Saturday, December 18*

## Winter Quarter 1966

- **Registration**  
  *Monday, January 3*

- **Classes begin**  
  *Tuesday, January 4*

- **Late registration fee effective**  
  *Tuesday, January 4*

- **Last day for new registration or addition of a new course**  
  *Saturday, January 15*

- **Change of program fee effective**  
  *Monday, January 17*

- **Last day for dropping a course without being responsible for grade**  
  *Saturday, January 29*

- **Final examinations**  
  *Monday-Saturday, March 14-19*

- **Winter quarter ends**  
  *Saturday, March 19*
Academic Calendar

Spring Quarter 1966

Registration .................................................. Monday, March 28
Classes begin .................................................. Tuesday, March 29
Late registration fee effective ............................... Tuesday, March 29
Last day for new registration or addition of a new course .................................................. Saturday, April 9
Change of program fee effective ............................. Monday, April 11
Last day for dropping a course without being responsible for grade ............................. Saturday, April 23
Memorial Day Holiday ........................................... Monday, May 30
Final examinations .............................................. Monday-Saturday, June 6-11
Commencement ................................................... Friday, June 10
Spring quarter ends ............................................. Saturday, June 11

Summer Session 1966

Registration .................................................. Monday, June 20
Classes begin .................................................. Tuesday, June 21
Late registration fee effective ............................... Tuesday, June 21
Last day for new registration or addition of a new course .................................................. Monday, June 27
Change of program fee effective ............................. Tuesday, June 28
Independence Day Holiday ...................................... Monday, July 4
Last day for dropping a course without being responsible for a grade ............................. Tuesday, July 5
Final examinations .............................................. Thursday-Friday, August 11-12
Eight-week Summer Session ends ............................. Friday, August 12

Fall Quarter 1966

Freshman Days and registration of entering students  Monday through Saturday, September 19-24
Registration of returning students .......................... Saturday, September 24
Classes begin .................................................. Monday, September 26
Thanksgiving Holiday ......................................... Thursday-Sunday, November 24-27
Fall quarter ends ............................................... Saturday, December 17

MARCH 1966

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
</tr>
<tr>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

APRIL 1966

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MAY 1966

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

JUNE 1966

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

JULY 1966

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AUGUST 1966

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
General Information

History and Location

Oregon College of Education was first known as Monmouth University. It was organized in 1856 and opened in 1861. The name was changed to Christian College and the institution was chartered in 1866. In 1882 it became Oregon State Normal School, continuing under that name until 1909. For a period of two years (1909-11) it was deprived of state support. The institution was maintained by combined faculty and community cooperation until re-established as a state normal school in 1910 by vote of the people, opening in 1911 as Oregon Normal School. It continued under that name until 1939, when the legislature designated all the state normal schools colleges of education. The presidents of the institution in the early days of its history were: Thomas W. Haley, L. L. Rowland, and A. D. Butler. Following them were: Thomas Franklin Campbell, 1869-1882; Davis Truman Stanley, 1882-1889; Prince Lucien Campbell, 1889-1902; Edwin De Vore Ressler, 1902-1909; John Henry Ackerman, 1911-1921; Joseph Samuel Landers, 1921-1932; Julius Alonzo Churchill, 1932-1939; Charles Abner Howard, 1939-1947; Henry Martin Gumm, 1947-1950; Roben John Maaske, 1950-1955; Roy Elwayne Lieuallen, 1955-1961; Ellis Arnold Stebbins, Administrator in Charge, 1961-1962; Leonard William Rice, 1962.

The college is in many respects very fortunately situated. Monmouth, a well-administered community with a population of approximately 2,700, is located in the Willamette valley near the state’s population center, fifteen miles from Salem, sixty-one miles from Portland, and sixty miles from the Oregon beaches. Exceptional climatic and scenic advantages afford a healthful and delightful place for study and campus life. A chamber of commerce, a civic club of active, enthusiastic women, an active parent-teacher association, several churches, a public park, and library are service features of the community. The campus itself is a beautiful and dignified spot entirely in keeping with the spirit of an institution of higher learning.

Accreditation

Oregon College of Education is a member of the American Association of Colleges for Teacher Education and the Northwest Association for Secondary and Higher Schools and is accredited as a degree-granting college by the National Council for Accreditation of Teacher Education. OCE is authorized by the National Council for Accreditation of Teacher Education to carry the following catalog statement:

"Accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers with the Master's degree as the highest degree approved."

Facilities

Facilities for instruction include the campus college buildings at Monmouth, with their classrooms, libraries and laboratories, recreation fields, and all equipment, together with cooperating schools in the area. The college campus occupies an area of approximately 75 acres.

Instructional

Administration Building. (1936). A three-story brick structure housing the president's office, personnel offices, general institutional offices, science laboratories, and classrooms.
Campbell Hall (1871, 1889, 1898, 1917). Campbell Hall is named in honor of President T. F. Campbell, who served from 1869 to 1882, and his son, Dr. Prince L. Campbell, president from 1889 to 1902. The first section of this building, which is reflective of modified Gothic architecture, was constructed in 1871. Additions have been made at different times on the north, south and west. The historic building has stood as a symbol of the institution for its many years, and until recently held aloft the inspiring tower which fell in the Columbus Day storm, 1962. Other portions of the building were also damaged or destroyed, including that portion of the building which contained the main auditorium, many offices and classrooms. Replacement of all or parts of the historic building are planned.

Education and Psychology Building (1965) Due for completion by fall of 1965, this specialized, multi-purpose structure was designed to accommodate the research, clinical and instructional needs of the education and psychology department and Teaching Research Division of the State System of Higher Education which is located on the campus. The attractive two-story structure is made of concrete and steel and trimmed with brick.

Health and Physical Education Building (1936). A building of brick masonry walls with tapestry brick facings. The gymnasium has a floor of standard size and a seating capacity of 1,000. On the lower floor there are showers, dressing rooms, and two handball courts. The new indoor Wolverton Memorial Pool adjoins the physical education building.

Humanities and Social Science Building (1964). This modern building with three floors replaced a section of Campbell Hall that was destroyed in the October 1962 windstorm. The structure houses 18 classrooms, three laboratories and more than 50 faculty offices.

Library (1951). The library, a two-story building, contains 65,000 books and bound periodicals, and several thousand uncataloged pamphlets and documents. Five hundred periodicals and several daily and weekly Oregon newspapers are received regularly. The curriculum laboratory on the first floor of the OCE library building contains over 3000 elementary and high school texts, latest editions of recommended children's encyclopedias, and about 1200 courses of study from Oregon and other states.

In addition, through unified library administration, all books, now over one and one-half million volumes, in the libraries of the several state institutions of higher education are available to students and faculty members of all institutions through inter-library loan.

Educational Media Center. The educational media center, on the ground level of the library building, serves as a depository for teaching materials and equipment, as an audio-visual center for projection services on campus and in laboratory schools, and an information center for teaching materials and audio-visual techniques. The center is equipped to produce teaching materials, such as motion pictures, slides, charts and graphs which are not available commercially. Closed circuit television, operated by the center, provides opportunity for classroom observation and experimental teaching. Certain campus classes and production and television studies are a part of the center.

Maple Hall (1914). After serving as a student center through the past decade, this building is now used as an activity room for physical education classes.

Memorial Stadium. Includes physical education and athletic fields, and the covered grandstand. It is one of the better small college athletic and physical education facilities in the Northwest. The stands and bleachers seat more than 2,500 persons.
Campus Elementary School (1916, 1948, 1958). The building houses the student teaching units of the Department of Education and Psychology. The older structure was remodeled in 1948, and two modern wings were constructed in 1948 and 1958.

Music Hall (1958). A modern one-story building, providing facilities for the Music Department, including offices, listening room, teaching studio, practice rooms, a band and choir rehearsal room, and a small recital auditorium.

Physical Plant Building (1960). To replace the old central Heating Plant which became inadequate as the campus grew, a new building was constructed to house central heating facilities, physical plant shops, and storage facilities.

West House (1924). Until 1962 this colonial type building was used as a women's dormitory. Because of crowded office conditions due to the expansion of services by the college, this building now houses a multiple clinic specializing in assistance to children having special education problems, including the areas of Speech and Hearing and Reading.

Health Center (1963). This new, modern facility, houses the Student Health Service and includes rooms for examination, treatment, day care and other needs, medical laboratories, and technical facilities for the finest health care. The building was first officially opened to campus and community in January, 1964.

Living

New Dormitory (1964). An apartment-like dormitory for men or women, this dormitory houses 144 students, three resident counselors and a housemother. Three living units are grouped with a fourth that houses a lounge and the housemother's residence. A unique feature of the dormitory is the exterior halls that diffuse noise away from the study areas.

Arnold Arms (1925). Purchased by the state board of higher education in 1946 for use as a women's dormitory, this building is well designed for dormitory purposes and provides comfortable housing for 35 men. All rooms are multiple.

Cottage (1917). A two-story house of red brick and shingled walls is a part of the dormitory group, housing 29 women.

Jessica Todd Hall (1912, 1921). Accommodates 170 women. Single and double rooms are available. Built at two different periods the building has several unusual and attractive features resulting from recent modernization.

Roben J. Maaske Memorial Hall (1956). A modern steel-reinforced concrete structure accommodating 100 men students in 50 double rooms, attractively furnished and decorated. This building provides desirable and comfortable housing for men.

Student Center Building (1960). This beautiful building provides a center for student life on the campus. It includes kitchen and dining room facilities for all dormitory residents, a coffee shop, lounges, offices, and committee rooms for student and other activities. Located in the basement are the college store and a large recreational area for various kinds of games. The dining room doubles as a ballroom.

Village (1946). Consists of 44 apartments for married students. The buildings were provided by the federal government through the Federal Public Housing Authority.
Arbuthnot Hall. Katherine Arbuthnot Hall, a modern, tastefully appointed dormitory for women dedicated January 27, 1963, provides accommodations for 162 women students. The building is named in honor of Miss Katherine Arbuthnot, who was a member of the faculty from 1913 to 1947 when she retired with the rank of assistant professor in geography and head of the geography department.

Teaching Research Division

Oregon State System of Higher Education

The Teaching Research division was authorized by the Oregon State Board of Higher Education on September 20, 1960, and located on the campus. Formerly administered through the college as an agency of the board, the research group was formally included as a part of the centralized activities for the State System of Higher Education in 1964 and was named the Teaching Research division. Central offices are located at Monmouth. The division operates branch offices at Corvallis, Eugene, and Portland.

The purposes of the research division, as listed in the initial proposal to the Board of Higher Education, are the following: (1) to identify areas related to the teaching-learning processes in which experimentation and research are urgently needed, (2) to plan and conduct research projects leading to improved teaching procedures at the various levels of instruction, (3) to provide the State System of Higher Education with an agency designed to expand knowledge related to teaching in a way comparable to that employed in other disciplines, and (4) to provide the State System of Higher Education with a facility designed to attract and wisely use the financial support which is available in this field through both public and private agencies.

The division professional staff is employed full time in research. Opportunity is provided for some graduate student research in connection with division projects.

Degrees and Certificate

Oregon College of Education offers curricula leading to junior standing and the associate in arts certificate, on the completion of two years’ work, and to the following baccalaureate and graduate degrees:

Bachelor of Science and Bachelor of Arts: elementary, junior high, and senior high school, and general studies.
Master of Science: elementary and secondary education, with several areas of educational specialization.
Master of Arts in Teaching.

Admission Requirements

In order to be admitted to Oregon College of Education, a student must be of good moral character and must present evidence of acceptable preparation for work at the college level. The development of character is regarded as a primary aim in education and is emphasized at all the state institutions of higher education. Every person applying for admission to the regular sessions of the college must submit the following records, which become the property of the college:
1. Application for admission
   a. Students with no preparation beyond high school graduation apply on the official form, Application for Admission to Oregon Higher Institutions. These forms may be obtained from the high school principal or superintendent or from the director of admissions, Oregon College of Education.
   b. Application forms for transfer students must be obtained from the director of admissions, Oregon College of Education.

2. Official records
   a. Beginning freshmen must furnish complete (four-year) high school records showing credits earned and graduation certified by the principal or superintendent of the school.
   b. Students with previous college work must file complete official records of all school work beyond the eighth grade, including an original transcript from each college or university attended. College records must be certified by the registrar of the institution where the work was undertaken. If the high school record is adequately shown on the college transcripts, another record direct from the high school is not necessary.

All records should be filed with the director of admissions at least four weeks prior to the date of registration; if they are filed later, the student’s registration may be unavoidably delayed. The registrar will evaluate the records submitted and will notify the applicant of his entrance standing.

Placement Examinations

All beginning freshmen planning to enter Oregon College of Education must complete the following college entrance examination board placement tests prior to registration for classes: scholastic aptitude test, intermediate mathematics achievement test, and English composition achievement test. These tests are used for counseling and placement purposes but may be the basis of admission if the required high school GPA has not been achieved.

Arrangements to take these tests during the senior year in high school should be made through the high school principal. Persons without access to such an arrangement must write directly to the college entrance examination board for information about taking the tests. They should be completed as early in the summer as possible.

The results of these tests must be received by the Registrar’s Office, Oregon College of Education, Monmouth, Oregon, at least two weeks prior to registration. Special arrangements will be necessary if the tests are not completed prior to arrival on the campus.

Health Requirements

At least six weeks prior to registration freshmen and transfer students are required to submit a health history and physical examination report to the Health Service. It is the responsibility of the student to arrange for this examination by a physician of his own choice. Delay in furnishing this record will cause a delay in the student’s registration. Forms for this purpose are provided for each student requesting admission.

Evidence of current immunity to smallpox, diphtheria and tetanus and a tuberculin test are required.

* Information concerning fees, scheduled examination dates, and examination centers may be obtained from the College Entrance Examination Board, P. O. Box 27896, Los Angeles 27, California. Official scores are submitted by the CEEB upon student request.
Advanced Placement Program

Students who complete college-level work in high school under the advanced placement program sponsored by the college entrance examination board and who receive satisfactory grades in examinations administered by the board may, on admission to the college, be granted placement or credit, or placement and credit, toward a bachelor’s degree. The amount of credit allowable will be determined on the basis of the curriculum the student follows and the grade received in the examination.

Freshman Standing

Oregon residents being admitted to first-year (freshman) standing must have:

a. Completed the following uniform entrance requirements approved by the institutions of higher education in Oregon: Graduation from a standard high school with 19 required units, including 3 units in English, 2 units in social science, 1 unit in mathematics, 1 unit in the natural sciences, and 2 units in health and physical education.

b. Achieved one of the following:
   (1) For 1965 fall term only, a 2.25 (C plus) grade-point average or above in all high school subjects taken toward graduation; for winter and spring term, 1965-66, a 2.00 (C) average or
   (2) A combined score of 887 points fall term, 1965 (880 points winter and spring terms, 1965-66) on the verbal and mathematical sections of the Scholastic Aptitude Test of the College Entrance Examination Board, or
   (3) A minimum grade-point average of 2.00 (C) on 12 term hours of college-level course work (of which 9 hours must be taken concurrently), or on 9 term hours in a prescribed program in a regular collegiate summer session, including a course in English composition and two or more courses from the areas of humanities, social science, or science-mathematics.

Students classified as nonresidents and registering as freshmen must have:

a. Graduated from an accredited high school and completed the distribution of subject matter required for Oregon residents.

b. Achieved one of the following:
   (1) A 2.50 (B−) grade-point average or above in all high school subjects taken toward graduation, or
   (2) A score of 887 or higher on the scholastic aptitude test of the college entrance examination board, or (See footnote on page ....)
   (3) A minimum grade-point average of 2.00 (C) on 12 term hours of college-level course work (of which 9 hours must be taken concurrently), or on 9 term hours in a prescribed program in a regular collegiate summer session including courses specified for resident students.

Students who have not graduated from high school, in order to gain admission, must have:

a. Obtained the Certificate of Equivalency from the state department of education based on required scores in the general educational development (GED) tests.

EARLY ADMISSION TO FRESHMAN STANDING. Oregon residents who have completed seven semesters of high school with a GPA of 2.50 or higher, or who have earned a combined score of 950 on the college entrance examination board scholastic aptitude test may be granted admission to the college prior to their graduation from high school. In order to be granted early admis-
sion at the end of the seventh semester, qualified high school seniors should have their high school principal complete the first page of the Application for Admission to State Institutions of Higher Education in Oregon and mail it to the director of admissions, Oregon College of Education.

**Advanced Standing**

Transfer students from other colleges, regardless of residence, are required to present a 2.00 (C) grade-point average and evidence of eligibility to return to any and all colleges previously attended. A student transferring fewer than 12 term hours must satisfy the entrance requirements for both transfers and entering freshmen.

Advanced standing is granted to students transferring with acceptable records from accredited institutions. The amount of credit granted depends on the nature and quality of the applicant's previous work evaluated according to the academic requirements of Oregon College of Education.

No advanced standing is granted at entrance for unaccredited work. After three terms of satisfactory work on the campus a student may receive credit for work taken in unaccredited collegiate institutions, but the courses must be equated to the regular courses offered at Oregon College of Education.

**Foreign Students**

Admission of students from abroad is limited to those who plan to prepare for teaching in their own homeland. Requirements for admission are based on an outstanding background of preparation which would make the student eligible for university admission in his own country. Normally, only students working toward the bachelor's degree in the field of elementary or secondary education will be accepted.

Students with college credit to transfer are admitted as beginning freshmen, with advanced standing, if any, to be determined after matriculation and further study of records submitted.

Students from abroad will be expected to guarantee financial responsibility because of limited financial assistance available from Oregon College of Education.

**Graduate Standing**

(See Graduate Study section)

**Fees and Deposits**

Fees and deposits in all the state institutions of higher education are charged according to a uniform plan, varying on different campuses according to differences in conditions or nature of work offered. The state board of higher education reserves the right to change the schedule of tuition and fees without notice.

In the fee schedule below are listed the regular fees paid by all students under the usual conditions. These registration fees entitle the student to the use of the college library, to the use of laboratory equipment and materials in connection with courses for which the student is registered, to medical attention and advice at the student health service, to the use of the gymnasium equipment (including gymnasium suits and laundry service) and to all other services maintained for the benefit of students. No reduction of fees is made to students who may not desire to use some of these privileges.

Undergraduate students who are residents of Oregon and who are enrolled for a total of 8 term hours of work or more during the regular academic year pay tuition and fees totaling $98.00 per term or $294.00 for the three-term academic year.
Undergraduate students who are not residents of Oregon and who are enrolled for a total of 8 term hours of work or more during the regular academic year pay, in addition, a nonresident fee of $80.00 per term. Total fees and tuition for nonresident students is $178.00 per term or $534.00 for the three-term academic year.

Graduate students enrolled for a total of 8 term hours or more pay tuition and fees totaling $98.00 per term.

**Regulations Governing Non-Resident Fee.** Under the regulations of the Oregon State Board of Higher Education, a minor whose parent or guardian is a bona fide resident of Oregon qualified for enrollment under the resident fee; a student whose domicile is independent of his parent or guardian qualifies for enrollment under the resident fee if he presents convincing evidence that he established his domicile in Oregon six months prior to his first registration.

All other students are required to pay the nonresident fee, with the following exceptions:

a. A student who holds a degree from an accredited college or university. (However, a nonresident student with a Bachelor’s degree enrolled in a curriculum at the University of Oregon Medical or Dental Schools leading to the degree of Doctor of Medicine or Doctor of Dental Medicine is required to pay the nonresident fee.)

b. A student attending a summer session.

c. A student paying part-time fees.

A student who has been classified as a nonresident may be reclassified as a resident:

1) in the case of a minor, if his parent or guardian has moved to Oregon and has established a bona fide residence in the state, or

2) in the case of a student whose domicile is independent of that of his parent or guardian, if the student presents convincing evidence that he has established his domicile in Oregon and that he has resided in the state for at least twelve consecutive months immediately prior to the term for which reclassification is sought, and that he has no intention of moving out of the state after completion of his school work.

A student whose official record shows a domicile outside of Oregon is prima facie a nonresident and the burden is upon the student to prove that he is a resident of Oregon. If his scholastic record shows attendance at a school outside of Oregon, he may be required to furnish further proof of Oregon domicile.

If any applicant has questions concerning the rules governing the administration of these policies, he should consult the office of the registrar at OCE.

**Special Fees**

**Part-time Students’ and Auditors’ Fee.** Part-time students and auditors (7 hours or less) will pay a fee of $14.00 per credit hour per term; the minimum fee is $28.00. Payment of the part-time fee entitles the student to all services maintained by Oregon College of Education for the benefit of students. (This fee is subject to adjustment to reflect total fee changes approved by the State Board of Higher Education.)

**Late-Registration Fee.** Full-time students registering after registration day of any term pay a late-registration fee of $5.00 for the first day and $1.00 for each additional day. Part-time students pay $1.00 a week.

**Return-of-Check Fee.** If institutional charges are met by a check which is returned because of any irregularity for which the student is responsible (NSF, illegible signature, improper bank account number, etc.), a fine of $1.00 per business day will be charged (maximum penalty, $5.00).
Change-of-Program Fee. Students are charged a fee of $1.00 per course for each change they may wish to make in their program subsequent to the date changes may be made without charge.

Transcript Fee. Each order is $1.00 for the first copy and 50 cents for each additional copy.

Art Fee. For courses in art the additional fees per term range from $4.00 to $11.00.

Applied Music Fee. For courses in applied music the additional fees per term range from $25.00 to $47.50.

Graduate Qualifying Examination Fee. Students desiring to take this examination will be charged $1.00 to $15.00.

Fee Refunds

Students withdrawing from the college and who have complied with the regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the date of withdrawal. The refund schedule has been established by the state board of higher education and is on file in the business office. All refunds are subject to the following regulations:

1. Any claim for refund must be made in writing before the close of the term in which the claim originated.
2. Refunds in all cases are calculated from the date of application for refund and not from the date when the student ceased attending classes, except in unusual cases where formal withdrawal has been delayed through causes beyond the control of the student.

Graduation Expenses

Each year students who are graduating will be charged the cost of cap and gown rental and other incidental expenses connected with graduation and commencement exercises. No person may be recommended for graduation until he has paid all fees and charges due the institution.

Living Accommodations

The students and faculty at Oregon College of Education believe in the kind of democratic education fostered in a residence hall program, as opposed to a fraternity and sorority program. All facilities are geared to provide students with living accommodations which promote physical health and which encourage social, educational and spiritual development. To these ends, living conditions are made as comfortable and congenial as possible, and the cost is kept at a minimum.

Housing Regulations. All freshman and sophomore women and men, except those living at home, are required to live in the college operated residences. Exceptions to this regulation are made only upon petition filed with the Housing Committee. Petitions to this committee by freshmen or sophomores are approved only on showing convincing and exceptional reasons of health, financial necessity, or other special circumstances, why the students should not live in the dormitories. All upperclass men and women will live in either the college dormitories, at home, or in approved off-campus houses. Off-campus residences for unmarried students must be approved by petition to the housing committee.

DORMITORY ACCOMMODATIONS—BOARD AND ROOM: Halls of residence are maintained for men and women. Each room is attractively furnished, with each hall having coin-operated laundry facilities, snack areas, lounges, pianos, soft drink dispensers, and many other facilities. Dining facilities are located in the Student Center building for all hall residents.
Dormitory accommodations are for room and board, and are contracted for by the Student FOR THE FULL SCHOOL YEAR, unless the student should elect to withdraw from the Institution, when such contract would be considered void.

Application for residency in dormitories must be completed on an official form, to be duly signed by the student, and must be accompanied by a room deposit of fifty dollars ($50.00), ALL OF WHICH WILL BE APPLIED TO THE FIRST INSTALLMENT OF BOARD AND ROOM CHARGES of the applicant. No room reservations are held unless all of the above provisions are fully complied with.

Board and room rates for dormitories are as follows:

<table>
<thead>
<tr>
<th>Dormitory name</th>
<th>Board per Month</th>
<th>Room per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arbutnot, Maaske, New Dormitory</td>
<td>60.00</td>
<td>387.50</td>
</tr>
<tr>
<td>Todd</td>
<td>60.00</td>
<td>365.00</td>
</tr>
<tr>
<td>Cottage, Arnold Arms, Village</td>
<td>50.00</td>
<td>320.00</td>
</tr>
</tbody>
</table>

When dormitory reservations are cancelled, a full refund of the fifty dollar ($50.00) deposit will be made ONLY IF CANCELLATION is made prior to August 15, 1965 on reservations for the fall term; and on reservations for winter and spring term, only when cancellation is made at least 14 days prior to the official opening date of said term. Students found ineligible for admission will have the full deposit refunded to them.

**NO REFUNDS** can be made for meals which are missed, nor are students allowed to transfer their meal tickets. Improper use of meal tickets, or the allowance of unauthorized persons to sleep in the dormitories will result in disciplinary action.

Board-and-room fees are payable in advance, not later than the 10th day of each month.

Students paying board or room charges after the date on which payment is due are assessed a late-payment fee of $1.00 for the first day, and $1.00 for each additional day until a maximum charge of $5.00 is reached. If dormitory charges are not paid within 10 days after the date due, the student’s registration may be cancelled.

At the end of any term, no grades will be issued to students who are in default of payment of any regular, or assessed, dormitory charge.

Room-and-board rates are subject to change at any time, but only by action of the State Board of Higher Education.

The charges for rooms cover the period of the college term with dormitories opening at 2:00 P.M. of the day prior to the first scheduled day of the academic calendar, and closing on the last scheduled day of each term.

Any refunds for charges for periods of less than a month are calculated at a daily rate, based on the monthly rate.

If a student withdraws from the dormitory but does not withdraw from the institution, he must pay all board-and-room charges for the entire school year remaining, unless he provides a substitute occupant, not then presently in dormitories, acceptable to the Dormitory Director.

**Housing for Married Students.** For married students, Oregon College of Education provides nine buildings containing forty-four apartments. These buildings are the property of the college. The apartments are partially furnished and rent for $36.00 to $45.00 per month with water and garbage disposal furnished.
Off-Campus Houses. A limited number of approved houses in Monmouth offer housekeeping rooms and apartments for junior and senior students under college regulations. Information about the approved houses may be obtained from the office of the dean of women or the dean of men in the administration building. All off-campus residences must be approved by petition to the housing committee.

Student Expenses

Figuring the cost of a year in college, the student usually thinks of the money he will spend from the time he leaves home until he returns at the close of the year. Such an estimate includes, of course, such personal items as clothing, travel, amusement—items which vary according to the thrift, discrimination, and habits of the individual. The following table gives as nearly as possible the over-all expenses incurred by a student during an academic year. Board-and-room estimates are based on charges commonly paid by students. The incidental item varies greatly with the individual. Cost of clothing is not included. The expenses of the first term are listed separately since the first term involves expense not incurred during the second and third terms.

<table>
<thead>
<tr>
<th>Items</th>
<th>First Term (13 Weeks)</th>
<th>Year (35 Weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional fees</td>
<td>$ 98.00</td>
<td>$ 294.00</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>$ 35.00</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Board and room</td>
<td>$ 262.00</td>
<td>$ 720.00</td>
</tr>
<tr>
<td>Incidentals</td>
<td>$ 25.00</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Totals</td>
<td>$ 420.00</td>
<td>$1164.00</td>
</tr>
</tbody>
</table>

Note: Board and room estimates include the cost of a multiple room at Todd Hall and are figured on the rates in effect at the time of publication of this catalog.

Financial Aids

Many opportunities for financial assistance and employment are available for students at Oregon College of Education. A variety of scholarships and loan funds has been established. Part-time work opportunities are available at the college and in the community.

Scholarships

State Scholarships

By action of the state legislature, scholarships in limited number have been established for students attending the institutions of higher learning in the state system of higher education for the year 1965-66. Value of certain scholarships are subject to adjustment to reflect fee changes approved by the State Board of Higher Education.

Scholarships for Oregon Residents. The following scholarships are available to students in the upper third of their high school class who are residents of Oregon and who need financial assistance. They are available also to students with previous college experience who have a current term and a cumulative grade-point average of 2.50. At least 50 percent of the scholarships are awarded to entering freshmen.

Application should be made by March 1 to the Oregon State Scholarship Commission, P. O. Box 5175, Eugene, Oregon. Official application blanks are available from the office of the high school principal and from the Oregon State Scholarship Commission.
Part-Tuition-and-Fee Scholarships. The state scholarship commission awards part-tuition-and-fee scholarships in equal number to 2½% of the college's annual enrollment. These awards carry a value of $63.00 per term, or $189.00 for the 1965-66 school year. They are open to students in any curriculum.

District and County Scholarships. The state scholarship commission awards annually throughout the state system of higher education one scholarship for each state legislative seat and one for each county. These scholarships carry a value of $189.00 per year at Oregon College of Education and are awarded for a period not to exceed four years, subject to satisfactory scholastic achievement term by term. They are transferable to other institutions of higher learning in the state system of higher education, but recipients must first attend for one year the institution making the award.

Teacher-Education Scholarships. Full-tuition-and-fee scholarships are available to students in elementary teacher education for the year 1965-66. These awards amount to waiver of all tuition and fees, a total of $294.00 for the year.

Special Cash Scholarships. The state legislature has authorized a very limited number of special cash scholarships to be awarded by the state scholarship commission to residents of Oregon with outstanding academic achievement and financial need for use at any four-year accredited institution of higher learning in Oregon. These awards have a possible annual value of $500.00 (depending upon individual need), with the amount subject to review each year by the commission. They are renewable for a total of four years provided eligibility is maintained. Special application forms are available at the office of the high school principal and must be submitted directly to State Scholarship Commission, Box 5175, Eugene, Oregon, by March 1.

Scholarships for Foreign Students. Scholarships are available in limited number to students from Foreign countries and to displaced persons. These awards carry a value in the amount of part- or full-tuition-and-fee costs and include the nonresident fee. Complete information may be obtained by writing the Scholarship Committee, Oregon College of Education, Monmouth, Oregon.

Other Scholarships

Oregon Congress of Parents and Teachers Scholarships. The Oregon Congress of Parents and Teachers shall offer a limited number of teacher education scholarships to apply on tuition, renewable for 3 years (12 terms) to outstanding students preparing to teach in Oregon at the elementary or secondary school level. The scholarships may be used to attend any state supported college or university in Oregon that prepares teachers. The awards are limited to Oregon residents. Application forms are available in the high school principal's office and should be filed with the Oregon Congress of Parents and Teachers, 603 Loyalty Bldg., Portland 4, Oregon, by March 1.

Bernard Daly Educational Fund. Under the will of Dr. Bernard Daly of Lakeview, Oregon, worthy young men and women of Lake County, Oregon, may receive a part or all of their necessary college expenses. The terms of the will provide that the income from this fund be used to pay the college expenses of at least fifteen students each year who attended high school in Lake county. The fund is administered by a board of trustees who select candidates annually from a list of applicants recommended by the county judge and the county school superintendent following examinations given in Lake county.

P.E.O. Scholarships. Two scholarships in the sum of $250.00 each are awarded annually to girls who are residents of Oregon by the Oregon State Chapter of P.E.O. These awards are to be used during the junior or senior year at a college or university in the state of Oregon. Applications should be obtained from and filed with the Scholarship Chairman of the State Chapter of P.E.O.
Eastern Star Scholarships. Five scholarships of $100.00 each are awarded annually to women students who are members or daughters of members of the Order of the Eastern Star in Oregon. These scholarships are presented at the end of the junior year to worthy students in need of financial assistance for the senior year.

Oregon State Employees Association Scholarships. A number of scholarships and grants-in-aid are awarded annually by the Oregon State Employees Association to students attending institutions in the state system of higher education. The applicant’s parent or legal guardian must be a member of OSEA. Selection is based upon scholastic achievement and financial need. Scholarship application forms are available from the high school principal or the scholarship committee, Oregon College of Education, and must be submitted to the OCE scholarship committee by March 1. The applicant must also obtain from the president of the OSEA chapter where the required membership is held a form for certification of eligibility to be sent to the OSEA Scholarship Committee, 1515 State Street, Salem, Oregon, by March 1.

Western Fence and Wire Works, Inc. Scholarship. An annual scholarship in the amount of $350.00 furnished by Zanley F. Galton, Portland, has been established with the state scholarship commission by the Western Fence and Wire Works, Inc. It is to be awarded by the commission to a son or daughter of an employee of the company for attendance at any institution within the Oregon state system of higher education. Application should be made directly to the State Scholarship Commission, Box 5175, Eugene, Oregon.

Non-resident Scholarships

A limited number of non-resident fee remission scholarships are awarded annually by the State Scholarship commission to residents of the United States who are not residents of Oregon. The scholarships are for study in the institutions of the Oregon State System of Higher Education. At Oregon College of Education the scholarships have a value of $80.00 a term.

Loan Funds

As an aid to students in financing a part of their residence study, a number of loan funds have been established. These funds are administered by officers of the institution in accordance with provisions specified by the respective donors. Applications for loans should be made to the dean of women or the dean of men.

Loan funds at the college have benefitted many earnest and capable students who could not have completed their college preparation without this financial aid. The funds are being gradually increased by generous friends.

The Ackerman Memorial Loan Fund. Named in memory of the late J. H. Ackerman, former president of the college, the fund has been built up through the contributions of graduating classes, individual contributions from members of the alumni association, and from the faculty.

Sophia Barnum Memorial Loan Fund. Relatives and friends of the late Sophia Barnum, long a member of the teaching staff, have established a loan fund in her memory for deserving men and women interested in preparing for teaching.

Patrick D. Dillian Memorial Student Endowment Fund for Seaside High-School Graduates. The annual income from this endowment fund is to be used for an annual award for a selected graduate of Seaside high school if such graduate attends an institution of the system within six months after graduation.
Educational Loan Foundation Fund, IOOF. Provides loans to qualified students who have completed at least one year of college.

The Federation of Women’s Clubs Educational Fund. Provides loans to a limited number of students.

Thomas H. Gentle Memorial Student Loan Fund. This loan fund has been established by relatives and friends of the late Thomas H. Gentle, who was at one time a member of the staff and an outstanding leader in teacher education. Loans from this fund are available to selected men and women preparing for teaching.

The Harry L. Holmes and David H. Holmes Scholarship Fund. Loans from the Harry L. Holmes and David H. Holmes scholarship fund are available to able, worthy, and needy male students (except those who propose to pursue the professions of medicine, law, music, and art) of Jackson county. Students to receive loans are selected by a committee of Jackson county residents, including a member of the Harry L. and David H. Holmes family.

Katherine Elle Klein Memorial Loan Fund. Relatives of Katherine Elle Klein have established this memorial. Funds are available to senior men and women in teacher education.

The J. S. Landers Loan Fund. Named in memory of Joseph S. Landers, president of the college 1921-1932, this is an emergency fund to meet immediate needs of students. Loans are made in small amounts and are for a short time only.

The Julia McCulloch Smith Loan Fund. Given to Oregon College of Education by Mr. John E. Smith, of Ames, Iowa, in memory of his wife, Julia McCulloch Smith, a graduate of Oregon College of Education, the fund is loaned to worthy women students.

Roben J. Maaske Memorial Student Loan Fund. This fund has been established in memory of the late Roben J. Maaske, president of the college 1950-55, to provide loans to worthy and deserving students preparing for teaching.

The Virginia Martin Memorial Loan Fund. Established in 1948, the fund makes available to students loans not to exceed $100.00.

Masonic Educational Funds. The Grand Lodge of the State of Oregon has assigned $2,000 to a fund for needy sons and daughters of Master Masons. Loans from this fund are made at the discretion of the trustees of the Grand Lodge, upon recommendation of the president of the institution and the approval of the master and wardens of the lodge located in the same place as the institution. Loans to any one student may not exceed $300.00 in a college year, subject to repayment in full or in installments at the borrowing student’s earliest convenience.

Ralph Kilham Memorial Loan Fund. Established in 1963 as a memorial to Ralph Killham, by the students, faculty, and staff of Oregon College of Education.

The Knights Templar have a national fund available for the aid of students in the junior and senior years. The student applying need not necessarily have Masonic affiliations as a prerequisite. Loans from this fund are obtained in the manner above described.

Monmouth Chamber of Commerce Loan Fund. This fund is available to carefully selected students.

Mothers Club and Dads Club Loan Fund. This fund was established in 1951 and is available to young men or young women in attendance at Oregon College of Education.
National Defense Education Act Loan Fund. By act of Congress this fund was established to assure that "no student of ability will be denied an opportunity for higher education because of financial need." Though not limited to students preparing for teaching, the loan arrangement is especially attractive to such students. Up to one-half the amount borrowed may be cancelled for those who enter the teaching profession in public schools and continue in it for five years. A "superior academic background" is required of applicants.

Oregon Department, Daughters of Union Veterans of the Civil War Student Loan Fund. The Oregon Department has established a loan fund which is designed to give assistance to selected men and women students. Preference is given to descendants of Union veterans.

P.E.O. Educational Loan Fund. Undergraduate or graduate women students in good standing may be eligible for P.E.O. loans in a sum not to exceed $800.00 and for a period not to exceed five years. The interest rate is three percent. The dean of women may assist in bringing about contact between the applicant and a P.E.O. chapter through which the loan is processed.

Rachel Phillips Loan Fund. Oregon College of Education was made beneficiary of one-third of the estate of Mrs. Rachel Phillips, of Oregon City. The amount of the bequest was made available for use as a student loan fund by the board of regents.

Riddell Memorial Student Loan Fund. Relatives and friends of Elizabeth and William Riddell have established this loan fund in their memory. Funds are available to men and women students.

Thomas Roberts Loan Fund. From the estate of Thomas L. Roberts this fund was made available to worthy young men and women of the state of Oregon to encourage spirituality and ability to be of service to others.

Sovereign Grand Lodge Education Loan Fund. This fund is available to candidates approved by the administrators.

The Charles H. Thompson Fund for Girls. Young women in college may apply for loans from the Charles H. Thompson Fund for Girls, which was established by the will of the late Charles H. Thompson.

Ada Murray Memorial Loan Fund. Established in 1962 by the Hood River County O.E.A., this fund is available to all students with preference given to students from Hood River County.

Lee J. Mahoney Memorial Loan Fund. Established in 1964 as a memorial to Lee J. Mahoney, instructor in science and mathematics. Loans from the fund are limited to students interested in a mathematics teaching career.

United Student Aid Funds Loan. The Oregon College of Education Alumni Association has provided this loan fund in conjunction with a National Philanthropic Foundation. Students who are of sophomore, junior, or senior standing and who are progressing toward a degree may be eligible for this loan.

Employment

Many students earn a large part of their expenses by work in the summers and during the academic year. Only those who are in good health and who can maintain a high scholastic standing can expect to succeed in carrying a full college course and at the same time earn a major part of their expenses. The work available during the academic year consists of such tasks as housework, janitor work, typewriting, reporting, waiting on tables, clerking, gardening, caring for children, etc.

Organized effort is made to assist those desiring to find work. Applications should be made to the dean of women or to the dean of men. Remunerative
employment cannot be guaranteed to all who may desire it, and the new student should have sufficient funds to cover the expenses of at least the first term. The attention of new students who intend to earn all or part of their living is called to the following results of experience:

1. Work of any kind is much more readily obtained after the student has had opportunity to familiarize himself with the local conditions.
2. No student should expect to obtain employment by correspondence. Positions for part-time employment are not listed, as a rule, until after the term opens.
3. No student should come expecting to earn money unless he knows how and is willing to work. Only those students who do their work well can expect continued employment.
4. A student earning his board and room or working 15 hours or more a week should not expect to carry a full academic load.

Student Welfare

Every effort is made at Oregon College of Education to promote student welfare. Special personnel services and agencies coordinate the program, and all members of the faculty and staff assist in promoting a personnel program designed to further mental health and educational development.

Student Personnel Program

The dean of students and the associate deans have general responsibility for the personnel program and for student welfare. The deans are available to students at all times for personal guidance and scholastic counseling.

A series of placement and aptitude tests is administered to admitted students and provides students and advisers with information valuable in planning professional work and in general counseling.

An effective counseling program insures personalized help for every student in planning his college course, and in making adjustments to college life. A faculty adviser is assigned to each new student. The student may retain this adviser throughout his college career, or he may change his adviser at any time. The faculty adviser becomes acquainted with the student and is available for consultation whenever help is desired. The dean of students and the associate deans are always available to all students for counseling. Specialized individual counseling and testing services are available to any student. A charge of $5 per school year is assessed for these specialized services.

The registrar is always available for planning programs and assisting in evaluation of work completed or work to be done. The dean of instruction, heads of various departments, and faculty members in each field are available to students for academic counseling. The director of teacher education, the coordinator of the secondary education program, and the placement secretary assist students in working out a suitable program of teacher preparation and in obtaining satisfactory placement.

Religious education is fostered on the campus by convocation speakers and by cooperative activities with the local churches. Students also have opportunity for fellowship in several religious organizations which are active on the campus. The college has also participated in a nationwide study of religion and higher education.

Discipline. The president has final authority in all matters of student discipline and, subject to review by the chancellor, in the regulations of student organizations and institutions whose actions may affect the welfare or policy of the institution.
New Student Week

The orientation program for all new students is an important feature of the fall term. During Freshman week, social functions, guided campus tours, firesides, and assemblies acquaint students with the many aspects of college life, its responsibilities and possibilities. Advisers assist the student in preparing his academic schedule. The students sign the Freshman walk and become familiar with other OCE traditions. Freshman initiation ceremonies are planned. Freshman class government is organized, and general orientation to the college curricular and co-curricular programs takes place.

Campus Store

A self-service campus store is maintained by the college through which students may purchase textbooks, supplies, and miscellaneous items.

Student Health Services

Through the Student Health Services, the college seeks to promote optimal physical and mental health for all its students. It strives to reach this goal by providing a safe, healthful environment, sound health education, health counseling and basic medical and nursing services. Health services are supported by student fees on a non-profit basis.

All students enrolled for 6 hours or more are entitled to medical consultation and treatment as provided through the Health Service. On the recommendation of the College physician and under his supervision a student is entitled to a maximum of five days hospitalization per term or fifteen days for the three terms. Hospitalization contracts for OCE students for ward care have been arranged with the two Salem hospitals. Expenses connected with surgery, x-rays, medicines, special nurses, and laboratory tests other than routine blood and urine must be met by the student.

A student who is ill at his residence on or off campus may request a call by the college physician at his own expense at the following rates: 7 a.m.-12 midnight: $7.00, 12 midnight-7 a.m.: $10.00.

Health services are not provided to students’ families, faculty or staff.

Accident and Sickness Insurance

A committee from the Associated Students each year selects an insurance plan which it feels will best meet the student's need to supplement the limited services described above.

Such a plan provides for additional hospitalization, medical and surgical benefits, diagnostic and laboratory tests and coverage for accidental injuries.

This group insurance may be purchased by the student at registration time at considerably less cost than individual coverage and provides protection both on and off campus whether school is in session or not.

An insurance plan of this type is recommended in order to provide reasonably adequate coverage for the college age student.

Placement

The placement bureau assists students who prepare for teaching to obtain teaching positions. Close relation with the schools and school officials of the state is maintained so as to insure the placing of graduates in the positions suited to their preparation and qualifications. The current year's graduates receive the placement service without cost; graduates of former years may receive the service of the placement bureau for an annual registration fee of $5.00. The credentials compiled by the placement secretary are made available to school officials upon request.
Follow-up Services

During their first year of teaching in Oregon, all teacher graduates are visited by a member of the academic staff. This visitation program serves to assist the graduate in evaluating his personal experiences and make further professional adjustments.

Alumni Association

The graduates of Oregon College of Education maintain a permanent alumni organization. The association maintains contact between the institution and its graduates and among the graduates themselves. The college is interested in continuing to serve its graduates in the various fields of endeavor, and they in turn are usually alert to opportunities for building up the work of their alma mater.

One of the very positive assets of the college is its loyal and active Alumni Association, as evidenced by active alumni clubs under the leadership of directors appointed by the executive committee of the association. Through these alumni clubs and the OCEAN (Oregon College of Education Alumni News), alumni are kept informed on matters pertaining to the college and its graduates.

The Oregon College of Education Alumni Loan Fund and participation in the National Defense Education Act and United Student Aid Funds loan programs are possible through the financial support of the Alumni Association.

The Carillon in memory of the Campbell Hall Tower and the Grove is a gift of alumni and friends of OCE, through the efforts of the Alumni Association.

Life memberships at $35.00 and annual memberships at $3.00 entitle alumni to the privileges of the Alumni Association, and to the OCEAN, which is published four times during the school year. All inquiries regarding the Alumni Association should be addressed to the Alumni Secretary, Oregon College of Education, Monmouth, Oregon.

Mothers and Dads Clubs

The OCE Mothers Club and OCE Dads Club are open to all mothers and fathers of students attending Oregon College of Education. These organizations help to acquaint parents with the philosophy, curricula, trends, and opportunities at Oregon College of Education, and provide a close link between the home and the college.

Dues and contributions of the Mothers Club and Dads Club provide scholarships, loan funds, and special awards. The organizations meet at various times during the year, holding joint meetings during Folks Festival at the OCE campus.

Student Activities

Various activities and organizations of alumni and of students add their incentive and direction to the program and ideals of the college. These activities and organizations not only assist in developing the individual students for further service to their communities, but they also strengthen and enrich the life of the institution.

Focal point of student activities is the Student Center, which is an integral part of the educational life at the college. It serves adequately the needs of students, faculty, alumni and guests for cultural, recreational and social pursuits. The center helps to make free time activity of students a cooperative factor with study.
Participation in any activity program is particularly valuable for students planning a teaching career. A record of such participation will be helpful to the teaching candidate seeking placement and to the teacher after a position is secured.

**Social Activities**

Through various social activities and organizations, particularly through living groups, students enjoy association with fellow students and members of the faculty. The contacts thus afforded constitute one of the most pleasant features of campus life.

Oregon College of Education fosters, in every way possible, an atmosphere conducive to high social and ethical ideals. A close personal contact between students and faculty, resulting in mutual confidence and inspiration, is sought. All students are encouraged to participate in student activities and to have a part in establishing and maintaining the spirit of the college.

**Organizations**

**Associated Students**

All students are members of the Associated Students and are eligible for participation in the many social, educational, and recreational activities. The college recognizes the value of democratic living and fosters in every way student participation and responsibility in all matters of student welfare.

**Student Government**

A strong student council, through its elected representatives of the student body, and its various appointed officers and committees, shares with the faculty many administrative responsibilities, and coordinates the activities of the various campus clubs and organizations.

**Scholastic Honorary Organizations**

Election to membership in scholastic honor societies is on the basis of high scholarship and honors students for outstanding academic achievement.

Theta Delta Phi, national honorary fraternity for men, is open to students achieving a 3.0 average for two consecutive terms.

Sigma Epsilon Pi, women's scholastic honorary, is open to students achieving a 3.25 average for two terms.

**Professional Honor Societies**

Student interest in professional areas is encouraged through professional honor societies. Election to membership is on the basis of special fitness or attainment in the respective departmental or professional field.

Phi Beta Sigma, a national honorary fraternity in education, aims to develop scholarship, service, and professional attitudes. Membership is by invitation.

Kappa Pi, the oldest honorary art fraternity, has chapters in forty-seven states. The Oregon College of Education chapter was organized during the year 1946-47. Students elected to membership must be upperclassmen with high scholastic records and outstanding art ability. Candidates must have the approval of the art staff.

Alpha Psi Omega, national dramatics honorary, stimulates interest in dramatic activities. The Kappa Mu chapter was chartered in 1947. Election to membership is on the basis of active participation in dramatic activities.
Service Honoraries

Several service honoraries offer selected students an opportunity to work together on worthwhile educational and recreational activities and to perform service functions for the associated students in many ways.

Staff and Key is a women's service club. To be a member of this organization a girl must have been on campus at least one term and have a 2.5 grade point average. Other qualifications for membership are leadership, loyalty, friendliness, and cooperation.

Collecto-Coeds is a women's service organization comprised of women exhibiting such attributes as cooperation, character, friendliness, loyalty, and service. This organization promotes interest in student activities and assists in upholding high social standards on the campus. Membership is by invitation.

Intercollegiate Knights, Wolf Knights chapter, is a national men's service organization of limited membership. The purpose of the club is to keep alive the traditions of the campus and to encourage student leadership and participation in campus activities. Members are selected on the basis of loyalty, character, and willingness to work.

Special Interest Organizations

The special needs and interests of students are effectively served by special interest groups and classes of many types. Student government encourages the organization of special groups to serve particular interests of students.

Classes. Each class (freshman, sophomore, junior, senior, and graduate) is organized in order to better serve the needs of the students. The class organizations participate in student government and in planning worthwhile social and educational activities.

Independent Students is an organization open to all students living in off-campus residences and to commuting students. This group sponsors social and recreational activities for students unable to participate in dormitory living.

Student Oregon Education Association is open to all students in teacher education. It assists the student in his future profession and has a constructive program fostering better teaching and better candidates for the teaching program.

Dormitory Living Groups have their own government for effective democratic living. Each dormitory sponsors social and recreational programs in cooperation with the Associated Students and the Interdormitory Council.

Co-Weds, an organization of student wives and married women students, meets together for social and educational activities of particular interest to young married women.

Upstagers is a drama club for students interested in all areas of play production and drama. One-act plays, dramatic readings, and other dramatic activities are encouraged through this organization.

D'OECE-Do, the square dance club, sponsors campus folk and square dance activities and demonstrations.

International Relations Club sponsors and programs debates on topics of current international affairs. Membership is open to all students.

Outing Club and the Schussmeisters (ski club) sponsor appropriate activities for students.

Young Democrats and Young Republicans sponsor political assemblies, discussions, and other activities for students interested in public affairs.

Varsity "O" is an organization composed of men who have earned their varsity letter in intercollegiate athletic competition.
Hui O Aloha (Hawaiian Students Club) is an organization which strengthens the ties between Hawaii and the continent by creating a better understanding of the Hawaiian Islands through group association and other activities. Membership is open to students who have resided in Hawaii for at least one year.

Music Educators National Conference (M.E.N.C.), Student Chapter, is a national organization for students interested in music education. Meetings feature speakers and performers in the field. M.E.N.C. also acts as a service group by assisting in the organization of concerts, receptions, student recitals, and other musical activities.

Wolvettes is the "pep club" for women who are interested in furthering school spirit.

Band is a class available to students with musical ability. The band sponsors concerts, plays at ball games, and conducts other musical activities.

Choir is a class open to students with singing ability and sponsors concerts on campus and in surrounding communities.

The Campus Christian Council coordinates many of the activities of the separate religious and church-affiliated groups on the campus and sponsors an annual Religious Emphasis Week for the campus community. Wesley Foundation, Lutheran Club, Westminster Foundation, Newman Club, Christian Science Club and Inter-Varsity Christian Fellowship provide students and faculty members ample opportunity for many rewarding religious and social activities.

W.R.A., the women's recreational association, coordinates the women's intramural and intercollegiate recreational program. Blazers are awarded to women students who qualify for awards according to the point requirements specified in the WRA constitution.

Publications

The Lamron is the weekly newspaper written, edited, and managed by students with the aid of a faculty adviser. It is designed to keep students and faculty in touch with the activities of the campus and the institution and to give student staff members valuable experience in journalistic activities.

The Grove is the annual publication of the associated students which features a review in pictures and words of the year's activities.

The Word is a handbook published each year for new students.

Wolf Calls, the student-faculty directory, is published each year by the associated students with the cooperation of Sigma Epsilon Pi.

Other Student Activities

In addition to clubs and organizations, a large variety of student activities enhance the cultural atmosphere of the campus and provide educational, recreational, social, and leadership opportunities for interested students.

Athletics, Sports and Recreation

Athletic programs for men and women supplement the class program of physical education activities. Participation in intercollegiate athletics with colleges of the Pacific coast is an integral part of the physical education program.

The men's intercollegiate program includes participation in the Oregon Collegiate conference. Competition on an intercollegiate basis is conducted at the varsity level in football, cross country, basketball, wrestling, baseball, track and field, tennis, golf, swimming and bowling. Freshman and junior varsity schedules are maintained in most of the sports.
The intramural program for men includes flag football, volleyball, basketball, swimming, handball, badminton, table tennis, softball, track and field, tennis, golf, horseshoes, archery, bowling, and wrestling.

Women participate in a program of intramural and intercollegiate recreational activities under the sponsorship of the women's recreation association. Their activities include volleyball, basketball, badminton, table tennis, folk and square dancing, swimming, softball, tennis, horseshoes, archery, and bowling.

Dramatics

Through classwork and extracurricular activities dramatics are fostered in the college not only for the benefits which such activities bring to those participating but also for the intellectual and cultural value they bring to the campus generally. Experience in dramatics is of great value to any prospective teacher.

Music

Through various means, effort is made on the campus to stress the cultural benefits of music. Many recitals and concerts are given throughout the year, often with no admission charge. Participation in Band, Orchestra, Choir, vocal and instrumental ensembles, and musical plays is urged.

Assemblies and Concerts

A variety of assembly programs encourages interest in political, literary, artistic, and other areas. The college sponsors a series of musical concerts either on this campus or in cooperation with other nearby colleges, which provides opportunities for the students to extend their music education by personal attendance at operas, ballet, and other musical programs.

Awards

As an incentive to exceptional achievement in scholarship and activities, or in special fields of endeavor, many honors and awards have been made available to students.

The Julia McCulloch Smith Award is given each year to the outstanding senior woman.

The Delmer Dewey Award is given each year to the outstanding senior man.

The Eloise Buck Memorial Award is given each year to a student for outstanding accomplishment in creative writing.

Phi Delta Kappa, national men's honorary education fraternity, presents an award each year to the outstanding senior man in education.

Other Awards. Numerous other awards are presented annually in recognition of outstanding achievement in drama, journalism, leadership, scholarship, intramural and intercollegiate athletics, mathematics, physics, and other areas.
Requirements for Degrees and Certificate

Certificate

Completion of the prescribed program of lower-division work qualifies one for an associate in arts certificate.

General Requirements:

a. Term Hours: Minimum, 93
b. Grade-Point Average: Minimum, 2.00 (C)
c. English Composition: 9 term hours
d. Fundamentals of Speech: 3 term hours
e. Physical Education: 6 term hours in activity courses
f. Personal Hygiene

Group Requirements:

a. A prescribed amount of work selected from three groups representing comprehensive areas of knowledge: humanities, science-mathematics, and social science. The group requirements are: a sequence of at least 9 approved term hours in each of the groups and a second sequence of at least 9 additional approved term hours in courses numbered 200-210 in any one of the same three groups.

Bachelor's Degree

To earn the degree of bachelor of science (B.S.) a student must complete the following institutional requirements. (Curricular and departmental requirements are listed elsewhere in this catalog.)

1. Term Hours: Minimum, 192 including at least 45 in upper-division in the elementary school, junior high school, and general studies curricula, and at least 62 in upper-division in the senior high school curriculum.

2. Grade-Point Average (GPA: Minimum 2.00 (C) on all college work and all work completed in residence at Oregon College of Education. (See Teacher Education curricula for grade point requirements.)

3. Residence: Minimum, 45 of the last 60 term hours. Division of Continuing Education classes taken through Oregon state system of higher education (not including correspondence study) may partially satisfy the residence requirement, but two full terms out of the last 60 hours must be completed on the Oregon College of Education campus. Two 8-week summer sessions of 12 hours each will meet this requirement.

4. Correspondence Study: Maximum, 24 term hours. (Credit earned by correspondence study is not residence credit.)

To earn the degree of bachelor of arts (B.A.) students are required to meet the institutional requirements listed above, and the course requirements in one specified curriculum for the degree of bachelor of science, and in addition to complete two years (normally 24 hours) of college work in a modern foreign language, one year of which may be satisfied by two or more years of this same language in high school.

Application for Degree. All students who intend to receive a degree from Oregon College of Education must make application by filing the proper form in the registrar's office early in the senior year. All college academic and financial obligations must be satisfied before any degree will be conferred.
Graduation with Honors. The faculty at Oregon College of Education recognizes superior scholarship by conferring at the annual commencement ceremony the distinction "Graduation with Honors" on students who have earned a cumulative grade-point average of 3.5 or better in their undergraduate work. Such students must have been in regular attendance at the college their last two years, earning a minimum of 90 term hours. Normally, the determination of grade point averages for honors purposes will be made at the end of winter term of the student's senior year.

Application for Teaching Certificate. All teaching certificates are issued by the superintendent of public instruction in the state department of education, Salem. To be eligible, an applicant (1) must have attained the age of 18 years; (2) shall furnish satisfactory evidence of proper educational preparation; (3) shall furnish satisfactory evidence of United States citizenship; and (4) shall, if the superintendent of public instruction requires such, furnish satisfactory evidence of good moral character, mental and physical health, and such other evidence as may be deemed necessary to establish the fitness of such applicant to serve as a teacher.

Application is made by submitting the required form, which is available in the placement office, to the state department of education, Salem, along with the regular $5.00 fee and an official transcript of college record, which is obtained from the registrar's office for a $1.00 fee.

Advanced Degrees

For advanced degree requirements see Graduate Study section, page 77.
Academic Procedures and Regulations

The academic year of Oregon College of Education is divided into three terms of approximately twelve weeks each, exclusive of the summer session, which is eight weeks in length. Students may enter at the beginning of any term but are advised to enter in the fall. It is especially important that first-year or freshman students be present for the opening week. The opening and closing dates for the terms of the current year are given in the academic calendar.

Definitions. Special terms applying to academic procedures of the college are defined as follows:

A SUBJECT is a designated field of knowledge such as history or English.

A COURSE is a subject or an instructional subdivision of a subject offered through a single term.

A CURRICULUM is an organized program of study arranged to provide definite cultural or professional preparation.

A YEAR SEQUENCE consists of three closely articulated courses in a subject extending through the three terms of the academic year.

A TERM HOUR represents three hours of the student’s time each week for one term. This time may be assigned to work in classroom or laboratory or to outside preparation. The number of lecture, recitation, laboratory, studio, or other periods per week for any course may be found in the descriptions in this catalog or in the regular schedule of classes.

Concurrent Registration. A student registered full time at OCE may not register for courses at another institution or in the Division of Continuing Education without specific permission from the academic requirements committee.

Class Standing. Freshmen, 37 or fewer hours; sophomore, 38-95 hours; juniors, 96-141 hours; seniors, within 51 hours of meeting requirements for graduation from a specific curriculum with required scholarship.

Grades and Points. The quality of student work is measured by a system of grades and grade points.

Grades. The grading system consists of four passing grades, A, B, C, D; failure, F; course dropped, Dr.; withdrawal from school, W; incomplete, Inc. Students ordinarily receive one of the four passing grades or failure. When the quality of the work is satisfactory, but the course has not been completed for reasons acceptable to the instructor, a record of incomplete is made and additional time is granted. Normally, an Inc. becomes an F by the end of the next term of residence unless the instructor has granted additional time.

Points. Grade points are counted on the basis of 4 points for each term hour of A grades, 3 for each term hour of B, 2 for each term hour of C, 1 for each term hour of D, and 0 for each term hour of F. Marks of Inc. and W are disregarded in the computation of points. The grade-point average (GPA) is the quotient of total points divided by total term hours in which grades (A, B, C, D, and F) are received. A minimum grade-point average of 2.00 or C is required for graduation.
Course Numbering System

Courses throughout the state system of higher education are numbered as follows:

- 0-49: Courses which do not carry credit applicable toward an academic degree.
- 50-99: Courses in the first year of foreign language, elementary algebra, geometry, and other courses of similar level.
- 100-299: Courses on the lower-division level.
- 300-499: Courses on the upper-division level.
- 400-499: Upper-division courses which may be taken for graduate credit.
- 500-599: Graduate courses.

Certain numbers are reserved for courses that may be taken through successive terms under the same course number, credit being granted according to the amount of acceptable work done. These blanket numbers are as follows:

503: Thesis (reading or research reported in writing)
402, 502: Workshop
406, 506: Special Individual Studies
407, 507: Seminar

Dropping a Course. A student may drop from a course (or courses) without being responsible for his grade up to the scheduled date shown on the academic calendar. If a student drops a course at any time after that date, a grade of Dr. will be recorded if the work is satisfactory (C or better) at the time of dropping, or a grade of F will be recorded if the work is unsatisfactory at the time of dropping. This grade will be figured into the term grade-point average along with those for courses carried the full term.

Withdrawal from School. A student may withdraw from the college without being responsible for grades up to the scheduled date shown on the academic calendar. If he withdraws after that date, he is responsible for his grades at the time of withdrawal; if he is doing satisfactory work (C or better), he will receive grades of W for all his courses; if not, grades of F will be recorded for all courses in which he is doing unsatisfactory work (D or F). The student will then be subject to appropriate academic action at the close of the term. It should be noted, however, that in situations of emergency (accidents, prolonged illness, etc.) a student may be permitted to withdraw without penalty at any time upon approval of the academic requirements committee.

Procedures. The form for dropping a course may be obtained in the registrar's office. It must be completed with instructor's and adviser's signatures and returned to the registrar's office before the action can be considered official. The instructor is then notified to that effect.

In order to have official and clear withdrawal from school, a student must fill out the necessary withdrawal papers, obtain the signatures of instructors, adviser, and dean, and return the forms to the registrar's office. All obligations to the school must be met in order to receive honorable dismissal. Under no circumstances will the withdrawal be official until this procedure has been completed.

Scholarship Regulations. The administration of the regulations governing scholarship requirements is vested in the academic requirements committee of the faculty.

A student is doing satisfactory work when he maintains a grade-point average of 2.00 (C) or better for all college work and for all work at OCE, and makes substantial progress toward the completion of other graduation requirements. A student failing to do satisfactory work any one term is placed
on scholastic probation. If his grade-point average the following term is 2.00 or better,
(a) he is removed from probation if his cumulative grade-point average is
   2.00 or better on load of 12 or more hours.
(b) he is continued on probation if his cumulative grade-point average is
   below 2.00.

A probationary student whose scholastic average for any term falls below 2.00 will not be permitted to re-register without the consent of the academic requirements committee. Any student not achieving profitable and creditable progress toward graduation may be suspended at the discretion of the academic requirements committee.

Awarding of Degrees. Degrees are awarded by Oregon College of Education once each year only, at the regular commencement exercises held in June. Those persons completing requirements for a degree at the close of the summer, fall, winter, and spring terms receive their degrees and diplomas in June. Persons who complete their final work off the Oregon College of Education campus spring term will be awarded the degree at the June commencement of the subsequent year. Upon request, a statement of degree can be furnished whenever requirements are completed at a time other than the term degrees are awarded.
Undergraduate Curricula

Honors Program

As a significant part of its various curricula, OCE offers an honors program dedicated to the pursuit of academic excellence. It provides the opportunity for the able and ambitious student to look at himself and his work, both in and out of classes, and to commit himself with dedication to quality in his educational adventure. The very center of this commitment is a readiness on the part of superior students to face up to and explore ideas.

The honors program at OCE was established to offer more challenging work to students who have demonstrated superior scholastic ability.

Freshman Program. Freshmen are selected on the basis of high school rank and performance on certain standardized tests administered during freshman week. Participation in OCE's honors program is purely voluntary. Students selected are invited to take some of their work in specialized courses taught in such a way as to integrate basic information in the fields of science, literature and social science. These specialized courses meet the college freshman year requirements in literature and social science.

Sophomore Program. Sophomores who have successfully completed the freshman honors program, or who have otherwise demonstrated superior ability, are invited to participate in the sophomore honors program. Participation in this program is purely voluntary. Emphasis of the sophomore honors program is upon United States history and culture.

Departmental Programs. Students in the sophomore, junior and senior classes who have demonstrated superior academic achievement and potential as leaders are invited to participate in departmental seminars. Superior sophomore, junior and senior students planning a career in teaching may be invited to serve as research, laboratory or teaching assistants.

Teacher Education

The preparation of teachers for the public schools has long been considered to be one of the major responsibilities of higher education in America. The state board of higher education in Oregon has indicated its recognition of this responsibility by the expansion of its facilities for the accomplishment of this task. Among the institutions comprising the state system of higher education, Oregon College of Education has as its major responsibility offering undergraduate and graduate work in teacher education at the elementary, junior high, and senior high school levels and the provision of leadership in teacher education.

At OCE a four-fold educational objective is sought:

1. To provide a broad general education with academic specialization for the prospective teacher.
2. To develop a well-defined philosophy of education and to provide professional preparation for effective teaching and administrative services at the elementary, junior high, and senior high school levels.
3. To prepare educational specialist personnel with specialization programs to provide clinical and remedial services to elementary, junior and senior high schools.
4. To exert leadership in research in the teaching-learning process through the work of the Teaching Research Division of the Oregon State System of Higher Education located on the campus.

The college realizes that its obligation to the citizens of Oregon is not discharged solely through developing teaching skill in those who go out to teach. Back of the professional education must be an acquired culture and an integration of personality which will effectively influence the pupils to be taught.

Levels of Preparation

Oregon College of Education attempts to meet the second and third objectives stated above by offering curricular programs leading to certification by the State Department of Education. As of July 1, 1965, eligibility to teach at the elementary, junior high, or senior high school level will be determined by satisfactory completion of norm requirements for the desired level and teaching areas and the recommendation of the teacher education institution. Curricular programs, at the undergraduate level, prepare teachers to meet the norms for the following areas:

- Kindergarten
- General Elementary
- Junior High School
- Senior High School
- Specialized Programs in Dual
- Elementary and Secondary Areas
- Education Specialists
- Teachers of Children with
- Extreme Learning Problems
- Teachers of the Deaf
- Speech Correctionists
- Teachers of the Mentally Retarded

The Kindergarten and General Elementary Curricula are designed to prepare teachers for the general classroom, grades kindergarten through sixth, or kindergarten through eight of an 8-4 plan of organization.

Major: Elementary Education, minimum of 24 upper division hours in addition to the education core required of all teacher candidates.

Minor: Minimum of 36 designated hours in one of the following fields:
- Art
- Foreign Language
- Health and Physical Education
- Humanities
- Mathematics
- Music
- Science
- Social Science
- Educational Specialist Minor (optional):
- Extreme Learning Problems
- Mental Retardation
- Speech Correction

The Junior High School curriculum programs are designed to provide both depth and breadth preparation for teaching in grades 7, 8 and 9 in schools with organized junior high school programs.

Major: Secondary Education—Junior High. Minimum of 18 upper division hours in addition to the education core required of all teacher candidates.

Minors: A combined teaching minor in Language Arts-Social Studies or two teaching minors selected from the following fields:
- Art
- Health and Physical Education
- Humanities
- Speech and Drama
- Library
- Music
- Physical Science-General Science
- Biology
- Pre-Algebra and General Math
- Elementary Algebra and Geometry
- Social Studies
- Educational Specialist Minor (optional):
- Extreme Learning Problems
- Mental Retardation
- Speech Correction

---

1 The minors and optional minors above are stated in terms of teaching minors detailed on pages 57-61.
The Senior High School curricula are designed to prepare teachers for grades 10 through 12 in a senior high school organization (grades 9 through 12 in a four-year high school).

Major: 63 hours, 27 hours of which must be upper division in a divisional major to be selected from the following:1 (The divisional major includes preparation in teaching fields as indicated).

Art Education
Teaching field: Art

Humanities
Teaching field: Literature, Writing, and Language

Music Education
Teaching field: Music

Science-Mathematics
Teaching fields:
Biology
Physical Science-
General Science
Chemistry
Mathematics
Social Science
Teaching field: Social Studies

Minor: Secondary Education. Minimum of 6 hours in addition to the education core required of all teacher candidates.

Teaching Minor: (optional second field)
Art
Health and Physical Education
Literature, Writing, and Language
Speech and Drama
Library
Music
Physical Science-General Science
Biological Science

Chemistry
Elementary Algebra and Geometry
Advanced Mathematics
Social Studies
Educational Specialist
Extreme Learning Problems
Mental Retardation
Speech Correction

The Art Education curricular patterns provide for a wide range of teaching opportunities. The teaching minors listed previously in the elementary, junior high and senior high programs may be taken as a part of those curricular patterns. In addition, a five-year baccalaureate program leading to an Art Education Specialist would provide preparation for teaching positions as an elementary classroom teacher or elementary art consultant, a junior high art teacher, a senior high art teacher, or art consultant or any combination of the four.2

The Music Education major is designed to prepare public school teachers of music for assignments at both the elementary and secondary levels, and in both vocal and instrumental areas. The teaching minors previously listed in the elementary, junior high and senior high programs may also prepare teachers in those areas with an emphasis on music.3

The program in Physical Education is planned to qualify students as teachers in this field. Completion of the curricula patterns for elementary, junior high, or senior high schools could be supplemented by completion of work to meet the basic norm in physical education, or health and physical education.4

The Educational Specialist programs provide preparation for elementary teachers with a minor in either extreme learning, mental retardation, or speech correction,4 or for optional educational specialist minors in extreme learning, mental retardation, or speech correction as a part of the curricular programs for elementary, junior high, or senior high school teachers.

---

1 See detailed programs on pages 55-57.
2 See detailed programs on pages 54-55.
3 See detailed programs on page 57.
4 See detailed programs on pages 44-47.
Admission to Teacher Education

Students planning to qualify for certification to teach in the public schools of Oregon normally make application to the committee on teacher education during the third term of their sophomore year. Students may not take courses designated as "Professional Teacher Education Courses" until they have been admitted to Teacher Education. The Committee on Teacher Education establishes policies and standards to be completed prior to full admission to Teacher Education courses. Application is made by filing application forms, by completing satisfactorily the required tests and approval forms, and maintaining a 2.0 GPA. Lower-division requirements must also be met before any student can be fully approved for admission.

Transfer students with junior standing interested in teacher preparation should clarify their status during their first term on the campus. Information and application forms may be obtained from the Education Department Office.

Admission to Student Teaching and Internship

Application and approval for Teacher Education does not guarantee approval for Student Teaching. Students should apply for approval for Student Teaching early in the term prior to the time they expect to student teach, or before.

Elementary School. In order to be admitted to elementary student teaching (grades 1-6) the candidate must have met the following requirements:
1. Attained senior standing (within 51 hours of meeting requirements for graduation with required scholarships).
2. Completed 25 of the prerequisite hours in professional courses including at least two of the three methods courses, Ed 357, Ed 358, and Ed 359, or their equivalent.
3. Satisfied all screening requirements of the committee on teacher education.
4. Additional elementary student teaching in kindergarten, art, music and physical education may be approved upon application to the Education Department office after completion of prescribed student teaching experience.

Junior High School. In order to be admitted to student teaching in the junior high school curriculum (grades 7, 8, 9 of an organized junior high school), the candidate must have met the following requirements.
1. Attained senior standing (within 51 hours of meeting requirements for graduation with required scholarship).
2. Completed 23 of the prerequisite hours in professional courses including Teaching in the Junior High School (Ed 342) and one special methods.
3. Satisfied all screening requirements of the committee on teacher education.

Senior High School. In order to be admitted to student teaching in the senior high school curriculum (grades 9-12), the candidate must have met the following requirements:
1. Attained senior standing (within 51 hours of meeting requirements for graduation with required scholarship).
2. Completed 19 of the prerequisite hours in professional courses including Principles of Secondary Teaching (Ed 314).

---

1 Any course with the prefix Education or Psychology (except Ed 311, Psy 201, 202, 203, 311, and 312) and specified departmental methods courses.
2 Applications, similar to requirements for Admission to Teacher Education, may be obtained at the Education Department office.
3. Satisfied all screening requirements of the committee on teacher education.¹

Transfer Students. In order to be admitted to student teaching, transfer students must have met the following requirements:
1. Attained senior standing and completed course requirements listed above.
2. Satisfied all screening requirements of the committee on teacher education.¹
3. Spent at least one term preceding student teaching as a full-time student on campus at Oregon College of Education.

Any transfer student with previous work in education, either undergraduate or graduate, who desires to be admitted to student teaching at OCE, may be required to furnish a statement of eligibility from the department of education in the institution from which he transferred.

Internship

Through a cooperative program with local school districts, a year-long internship is provided for selected students in elementary, junior high, and senior high schools. An early expression of interest during the junior year, or fall term of the senior year, will permit the Director of Student Teaching and Interns to plan an individual program for interested students.

The following information describes briefly the salient concepts of the internship program:
1. The regular curricular programs in elementary, junior high, and senior high are completed during a five-year program, rather than a four-year program.
2. Selected candidates serve a full year as a paid intern in a school district under special certification provisions of the State Department of Education, and under a reduced teaching load with the school district.
3. Supervisory assistance is provided during the intern year by the cooperating teacher from the public school and the college supervisors.
4. Weekly college seminars for college credit, and the opportunity during summer sessions and during the internship year to complete college requirements toward the Standard Teaching Certificate and/or the Master's Degree.
5. The opportunity, if appropriate to the student's degree program, to carry graduate credit in lieu of the fifteen-hour requirement for Student Teaching during the senior year. Such credit would be reserved until completion of the required hours of Student Teaching during the intern year, and subsequently recorded as graduate credit.
6. Awarding of the bachelor's degree at the completion of 192 hours of college credits, if all other degree requirements are met, but with the reservation of institutional recommendation for certification until completion of the internship program.

Eligibility:
1. Be eligible to attain senior standing (within 51 hours of meeting requirements for graduation with required scholarship) within the year of application.
2. Complete all the prerequisite hours in Professional Teacher Education Courses (excepting Student Teaching, or with petition approval of exceptions) during last year of application.
3. Satisfy all screening requirements of the committee on teacher education, and graduate committee as appropriate, during the year of application.¹

¹ See footnote 2, page 40.
Teacher Education Programs

Kindergarten Curriculum

Students who complete the requirements in the elementary school curriculum for the degree of bachelor of science or bachelor of arts and receive elementary certification issued by the superintendent of public instruction are eligible to teach in kindergartens that are established as part of a public school system. [See Requirements for the Bachelor's Degree (Elementary School).]

1. Students should have a genuine interest in young children, and it is important that they have the ability to play simple tunes on the piano.

2. It is recommended that students interested in the education of young children qualify themselves as kindergarten-primary teachers by including in their degree program Preprimary Education (Ed 451) and Student Teaching: Kindergarten (Ed 414), 3-5 hours.

Elementary School Curriculum

Students who complete satisfactorily the requirements in the elementary school curriculum for the degree of bachelor of science or bachelor of arts become eligible for certification to teach in the elementary schools of Oregon. All certificates are issued by the superintendent of public instruction upon recommendation of the teacher education institution. As of July 1, 1965, eligibility to teach at a specific level is determined by the satisfactory completion of norm requirements for the desired level.

Requirements for the Bachelor's Degree (Elementary School).¹

1. B.S. Degree:
   a. Grade-Point Average: a 2.00 cumulative in all college work, in all work taken at OCE, in major area, and in each minor.
   b. Major: Elementary Education
      Minimum of 24 upper division hours in addition to the education core required of all teacher candidates
   c. Minor: Minimum of 36 designated hours in one of the following fields:
      - Art
      - Foreign Language
      - Health and Physical Education
      - Humanities
      - Mathematics
      - Music
      - Science
      - Social Science
      - Educational Specialist
      - Extreme Learning Problems
      - Mental Retardation
      - Speech Correction
   d. Educational Specialist Minor (optional)
      - Extreme Learning Problems
      - Mental Retardation
      - Speech Correction

2. B.A. Degree
   Completion of all requirements given under 1, plus two years of college work in a modern foreign language.²

I Lower Division General Education Requirements

<table>
<thead>
<tr>
<th>Humanities</th>
<th>Qt. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>World Literature (Eng 107, 108, 109)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ See institutional requirements, pages 31-32.
² One year of this requirement may be satisfied by two or more of the same language in high school.
### TEACHER EDUCATION PROGRAM

| Social Science | 18 |
| History of Western Civilization (Hst 101, 102, 103) | 9 |
| Intro. Geography (Geo 105, 106) | 6 |
| History of Pacific Northwest (Hst 478) | 3 |
| Science | 21 |
| General Biology (Bio 101, 102, 103) | 9 |
| Mathematics | 12 |
| Essentials of Math (Mth 121, 122, 123) | 9 |
| Mathematics for Elem. Teachers (Mth 311) | 3 |
| Art | 6 |
| Drawing Processes for Elementary (A 221) | 2 |
| Design Processes for Elementary (A 223) | 2 |
| Lettering Processes for Elementary (A 237) | 2 |
| Music | 6 |
| Music Fundamentals (Mus 381, 382) | 6 |
| Physical Education | 6 |
| Basic Rhythms (PE 111, 211) | 2 |
| Games and Relays (PE 115) | 2 |
| Gymnastics and Self-Testing (PE 112, 212) | 2 |
| Individual and dual sports (PE 114, 214) | 2 |
| Aquatics (PE 113, 213) | 2 |
| Team Sport (PE 115, 215) | 2 |
| Psychology | 9 |
| General Psychology (Psy 201) | 3 |
| Human Development (Psy 311) | 3 |
| Psychology of Adolescence (Psy 312) | 3 |

**II Professional Teacher Education Requirements**

Major: Elementary Education | 51 |
| Historical Foundations of Education (Ed 311) | 3 |
| Learning and Instruction in the Elementary Schools (Ed 361, 362) | 18 |
| Children’s Literature (Eng 388) | 3 |
| or Literature for Adolescence (Eng 489) | 3 |
| School Health Program (Ed 351) | 3 |
| Art Education (Elementary) (A 323) | 3 |
| Music Education (Elementary) (Mus 383) | 3 |
| PE in the Grades (Ed 344) | 3 |
| Student Teaching and Seminar (Elementary) (Ed 415) | 15 |

**III Specialized Undergraduate Preparation**

Minors:
At least one minor of 36 quarter hours (which may include the General Education hours in the selected field, Part 1) selected from the following fields:

| Art | 37 |
| General Elementary Art Requirements | 9 |
| Drawing Processes | 2 |
| Design Processes | 2 |
| Lettering Processes | 2 |
| Art Education (Elementary) | 3 |
| Crafts | 12 |
| Design and Lettering | 4 |
| Drawing and Painting | 6 |
| Specialized Professional Courses in Art Education | 3 |
| History and Appreciation | 3 |

| Health and Physical Education | 36 |
| Activity Courses | 17 |
| Rhythms (3), Gymnastics and Self Test. (2) | |
| Aquatics (2), Individual and Dual Sports (5), Team Sports (5) | |

---

2 This nine-hour psychology sequence may be taken as a part of a correlated program with six hours of sociology and Ed 311—the Sophomore Block.

3 This nine-hour professional sequence of nine hours each term, Junior Block I and Junior Block II, consists of Psychological Foundations of Education, Methods and Materials of Reading, Language Arts, Social Studies, Science, Mathematics, and Audio-Visual Aids.

5 The term in which Student Teaching is taken is dependent upon enrollment in the appropriate sequence of the Junior Block.

*Included in Teaching Minors*
<table>
<thead>
<tr>
<th>Theory Courses</th>
<th>19</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Aid (2), Methods (3), Principles (3), Organization and Administration (3), Kinesiology or Anatomy and Physiology (3), Officiating or Coaching (2), Student Teaching (3)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Humanities</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition (Beginning)</td>
<td>9</td>
</tr>
<tr>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>Composition (Advanced)</td>
<td>3</td>
</tr>
<tr>
<td>Nature of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>Literature or Foreign Language Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Music</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory (Exempt from Mus 381, 382)</td>
<td>12</td>
</tr>
<tr>
<td>Music Literature</td>
<td>6</td>
</tr>
<tr>
<td>Professional</td>
<td>6</td>
</tr>
<tr>
<td>Performance</td>
<td>5</td>
</tr>
<tr>
<td>Applied Music</td>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Science</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Biology Sequence and Natural History</td>
<td>12</td>
</tr>
<tr>
<td>Physical Science (GS 202, 203)</td>
<td>8</td>
</tr>
<tr>
<td>Earth Science Sequence</td>
<td>8</td>
</tr>
<tr>
<td>Planned Electives in Science</td>
<td>7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essentials of Mathematics or Approved Sequence</td>
<td>9-12</td>
</tr>
<tr>
<td>Mathematics for Elementary Teachers</td>
<td>9</td>
</tr>
<tr>
<td>Arithmetic and Algebra</td>
<td>6</td>
</tr>
<tr>
<td>Elements of Statistical Methods</td>
<td>6-9</td>
</tr>
<tr>
<td>Planned Electives in Mathematics</td>
<td>6-9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Science</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of the United States</td>
<td>9</td>
</tr>
<tr>
<td>History of Western Civilization</td>
<td>9</td>
</tr>
<tr>
<td>Geography</td>
<td>9</td>
</tr>
<tr>
<td>One elective sequence from the fields of history, political science, sociology, anthropology, or economics</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foreign Language</th>
<th>33</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three years of Spanish or French</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>Choice of minor will vary the number of free elective hours to make the total program of 192 hours</td>
<td>6</td>
</tr>
</tbody>
</table>

Total hours undergraduate work | 192 |

---

**Educational Specialist Curricula**

**(Elementary)**

**THE PROGRAM FOR ELEMENTARY TEACHERS WITH A MINOR IN EXTREME LEARNING PROBLEMS**

### I Lower Division General Education Requirements

#### Humanities

| English Composition (Wr 111, 112, 113) | 9 |
| World Literature (Eng 107, 108, 109) | 9 |
| Fundamentals of Speech (Sp 111) | 3 |

#### Social Science

| History of Western Civilization (Hst 101, 102, 103) | 9 |
| Introductory Geography (Geo 105, 106) | 6 |
| History of the Pacific Northwest (Hst 478) | 3 |

#### Science

| General Biology (Bi 101, 102, 103) | 9 |
| Foundations of Physical Science (GS 101, 102, 103) | 12 |

#### Mathematics

| Essentials of Mathematics (Mth 121, 122, 123) | 9 |
| Mathematics for Elementary Teachers (Mth 311) | 3 |

#### Art

| Drawing Processes for Elementary (A 221) | 4 |
| Design Processes for Elementary (A 222) | 6 |
| Lettering Processes for Elementary (A 237) | 2 |

#### Music

| Music Fundamentals (Mus 381, 382) | 6 |
Physical Education................................................................. 6
  Basic Rhythms (PE 111, 211) ................................................ 3
  Gymnastics and Self Testing (PE 112, 212) ............................... 4
  Aquatics (PE 113, 213) ..................................................... 3
  Games and Relays (PE 115) .................................................. 3
  Individual and Dual Sports (PE 114, 214) .............................. 4
  Team Sports (PE 115, 215) ................................................ 4
Psychology................................................................. 9
  General Psychology (Psy 201) ........................................... 3
  Human Development (Psy 311) ........................................... 3
  Psychology of Adolescence (Psy 312) .................................. 3

II Professional Teacher Education Requirements
Major: Elementary Education ................................................. 51
  Historical Foundations of Education (Ed 311) ........................ 3
  Learning and Instruction in the Elementary schools (Ed 361, 362) 18
  Physical Education in the Grades (Elementary) (Ed 344) ............ 3
  Children’s Literature (Eng 388) ......................................... 3
  School Health Program (Ed 334) ........................................ 3
  Art Education (Elementary) (A 323) ................................... 3
  Music Education (Elementary) (Mu 383) ................................ 3
  Student Teaching and Seminar (Elementary) .......................... 15

III Specialized Undergraduate Preparation
Minor: Extreme Learning Problems ......................................... 24
  Education of the Exceptional Child (G) (Ed 470) .................... 3
  Diagnostic and Remedial Techniques in the Basic Skills (G) (Ed 465) 3
  The Maladjusted Child (G) (Ed 463) .................................... 3
  Psychology of Reading Instruction (G) (Ed 480) ....................... 3
  General Intelligence Testing (G) (Ed 483) .............................. 3
  Diagnostic and Remedial Techniques in Reading (G) (Ed 468) ....... 3
  Practicum: Remedial Reading (Ed 409) ................................ 6

Minor: Additional work in Humanities, Social Science, Mathematics,
  Art, Music, or Physical Education to constitute a 36 hour minor.

Electives ............................................................ 18

Total hours in the B.S. Program ........................................... 192

THE PROGRAM FOR ELEMENTARY TEACHERS WITH A MINOR
IN MENTAL RETARDATION

I Lower Division General Education Requirements
Humanities ............................................................ 21
  English Composition (Wr 111, 112, 113) ............................ 9
  World Literature (Eng 107, 108, 109) ................................. 3
  Fundamentals of Speech (Sp 111) ..................................... 3

Social Science .......................................................... 18
  History of Western Civilization (Hist 101, 102, 103) ............... 9
  Introductory Geography (Geo 105, 106) ............................. 6
  History of the Pacific Northwest (Hist 478) ......................... 3

Science ............................................................... 21
  General Biology (Bi 101, 102, 103) ................................ 9
  Foundations of Physical Science (GS 101, 102, 103) .............. 12

Mathematics .......................................................... 12
  Essentials of Mathematics (Mth 121, 122, 123) ..................... 9
  Mathematics for Elementary Teachers (Mth 311) ................. 3

Art ................................................................. 6
  Drawing Processes for Elementary (A 221) ........................... 2
  Design Processes for Elementary (A 222) ............................ 2
  Lettering Processes for Elementary (A 237) ........................ 2

Music ............................................................... 6
  Music Fundamentals (Mus 381, 382) ................................ 6

1 See footnote page 43.
2 See footnote page 43.
3 See footnote page 43.
Physical Education
Basic Rhythms (PE 111, 211)                      6
Gymnastics and Self Testing (PE 112, 212)           
Aquatics (PE 113, 213)                                
Games and Relays (PE 115)                              
Individual and Dual Sports (PE 114, 214)             
Team Sports (PE 115, 215)                             
Psychology³                                          9
General Psychology (Psy 201)                         3
Human Development (Psy 311)                         3
Psychology of Adolescence (Psy 312)                  3

II Professional Teacher Education Requirements
Major: Elementary Education                        51
Historical Foundations of Education (Ed 311)         3
Learning and Instruction in the Elementary School (Ed 361, 362) 18
Physical Education in the Grades (Ed 344)            3
Children's Literature (Eng 388)                     3
² School Health Program (Ed 351)                    3
² Music Education (Elementary) (Mu 384)              3
² Art Education (Elementary) (A 323)                3
Student Teaching and Seminar (Elementary)² (Ed 413) 15

III Specialized Undergraduate Preparation
Minor: The Mentally Retarded                        15
The Mentally Retarded Child (G) (Ed 464)            3
Curriculum for the Mentally Retarded, (G) (Ed 489)  3
Practicum: The Mentally Retarded (Ed 409)           3
General Intelligence Testing (G) (Ed 483)           3
Seminar: Arts and Crafts for the Mentally Retarded (Ed 407) 3
Minor: Additional work in Humanities, Social Science, Mathematics, Art, Music, or Physical Education to constitute a 36 hour minor.
Electives                                            25
Total hours in the B.S. Program                     192

THE PROGRAM FOR ELEMENTARY TEACHERS WITH A MINOR IN SPEECH CORRECTION

I Lower Division General Education Requirements

Humanities                                         21
English Composition (Wr 111, 112, 113)               9
World Literature (Eng 107, 108, 109)                9
Fundamentals of Speech (Sp 111)                     3

Social Science                                     18
History of Western Civilization (Hst 101, 102, 103) 9
Introductory Geography (Geo 105, 106)              6
History of the Pacific Northwest (G) (Hist 478)     3

Science                                            18
Human Anatomy and Physiology (Z 334, 335)           6
Foundations of Physical Science (GS 201, 202, 203) 12

Mathematics                                         12
Essentials of Mathematics (Mth 121, 122, 123)       9
Foundations of Mathematics (Mth 311)               3

Art                                                 6
Drawing Processes for Elementary (A 221)            2
Design Processes for Elementary (A 222)             2
Lettering Processes for Elementary (A 237)          2

Music                                               3
Music Fundamentals (Mus 381)                        3

³ See footnote page 43.
² See footnote page 43.
⁸ Included in Teaching minor.
Physical Education ........................................... 6
Basic Rhythms (PE 111, 211) ................................. 6
Gymnastics and Self Testing (PE 112, 212) ............... 6
Aquatics (PE 113, 213) .................................... 6
Games and Relays (PE 115) ................................ 6
Individual and Dual Sports (PE 114, 214) ................. 6
Team Sports (PE 115, 215) ................................ 6
Psychology† ..................................................... 9
General Psychology (Psy 201) .............................. 3
Human Development (Psy 311) ............................. 3
Psychology of Adolescence (Psy 312) ....................... 3

II Professional Teacher Education Requirements ........... 37
Historical Foundations of Education (Ed 311) ............. 3
Psychological Foundations of Education (Ed 316) ......... 4
Methods and Materials: Reading (Ed 337) .................. 3
Music Education (Elementary) (Mu 383) ................... 3
Art Education (Elementary) (A 323) ........................ 3
School Health Program (Ed 351) ........................... 3
Audio-Visual Aids (Ed 435) ................................ 3
Practicum: Elementary Speech Correction (Ed 409) ....... 15

III Specialized Undergraduate Preparation .................. 30
Minor: Speech Correction ...................................

Speech Science (Sp 371) ................................. or
Audiology (g) (Sp 487) .....................................
Phonetics (Sp 370) ......................................... 3
Clinical Speech Therapy (g) (Sp 484, 485, 486) .......... 6
Clinical Methods in Speech Correction (g) (Sp 478) ....... 3
Speech Pathology (Sp 481) ................................ 3
Audiology (g) (Sp 488, 489) ................................ 6
Psychology of Communication (g) (Psy 494) ............... 3
Speech Correction in the Schools (Ed 393) .................. 3

Minor: Additional work in Humanities, Social Science, Mathematics,
Art, Music, or Physical Education to constitute a 36 hour minor.

Electives ..................................................... 32

Total hours in the B.S. Program ............................. 192

Junior High School Curricula

Students who complete satisfactorily the requirements of a junior high school curriculum in the degree programs of bachelor of science or bachelor of arts become eligible for certification to teach in the junior high schools of Oregon. As of July 1, 1965, students meet the requirements for the Basic Teaching Certificate valid for three years, and must complete 24 quarter hours of upper-division or graduate credit within three years applicable to a planned fifth year of a five-year standard teacher education program. Eligibility to teach at the desired level will be determined by satisfactory completion of requirements for the desired level and teaching areas. All certificates are issued by the superintendent of public instruction upon recommendation of the teacher education institution.

Students would be well advised to select their two fields with care. Junior high school organizations provide limited opportunity for single area or field specialization, e.g., Literature, Writing, and Language with a second field of Speech and Drama. Many teachers in the area of English will also teach Social Science, and teachers of science will also teach mathematics. Careful planning with an advisor should be undertaken early in the program.

Requirements for the Bachelor’s Degree (Junior High School)†

† See footnote on page 43.
‡ See institutional requirements, pages 31-32.
1. B.S. Degree:
   a. Grade-Point Average: a 2.00 cumulative in all college work, in all work taken at OCE, in major area, and in each teaching area.
   b. Major: Secondary Education (junior high school)
      Minimum of 13 hours upper-division in addition to the education core required of all teacher candidates.
   c. Minors: A combined teaching minor in Language Arts-Social Science, or two teaching minors selected from the following fields:
      Art
      Health and Physical Education
      Literature, Writing and Language
      Speech and Drama
      Library
      Music
      Educational Specialist Minor (Optional):
      Extreme Learning Problems
      Mental Retardation
      Minimum: Meeting the teaching minor requirements in the combined language arts-social science norm, or in two teaching minors in a planned and approved program with an advisor.

2. B.A. Degree:
   Completion of all requirements given under 1, plus two years of college work in a modern foreign language.¹

I Lower Division General Education Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Qt. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>English Composition (Wr. 111, 112, 113)</td>
<td>21</td>
</tr>
<tr>
<td>A planned literature sequence from World Literature or Shakespeare appropriate to teaching fields</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>9</td>
</tr>
<tr>
<td>A planned sequence selected from fields of History, Geography, Economics, Political Science, Sociology or Anthropology</td>
<td>9</td>
</tr>
<tr>
<td>Science-Mathematics</td>
<td>12</td>
</tr>
<tr>
<td>A planned sequence in science-mathematics²</td>
<td>12</td>
</tr>
<tr>
<td>Art</td>
<td>3</td>
</tr>
<tr>
<td>Art Appreciation (A 127 or 128)</td>
<td>3</td>
</tr>
<tr>
<td>Music</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Music and its Literature, (Mus 201 or 203)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education³</td>
<td>6</td>
</tr>
<tr>
<td>Psychology⁴</td>
<td>9</td>
</tr>
<tr>
<td>General Psychology (Psy 201)</td>
<td>3</td>
</tr>
<tr>
<td>Human Development (Psy 311)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology of Adolescence (Psy 312)</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ One year of this requirement may be satisfied by two or more years of the same foreign language in high school.
² Students taking a nine-hour science sequence, must also take Intermediate Algebra (Mth 100) or its equivalent.
³ Students are required to complete six activity courses selected from at least four areas: Rhythms, Gymnastics and Self-Testing Activities, Aquatics, Individual and Dual Sports, and Team Sports. These may be either 100 or 200 courses. It is permissible to earn credit in two activity courses each term, only one of which may carry a 100 number.
⁴ See footnote page 43.
II Professional Teacher Education Requirements

Major: Secondary Education .................................................. 38

- Historical Foundations of Education (Ed 311) ......................... 3
- Psychological Foundations of Education (Ed 310) ..................... 4
- Teaching in the Junior High School (Ed 342) ........................... 4
- Special Methods in Teaching Fields ..................................... 6
- Reading Instruction in the Secondary School (Ed 341) ............... 3
- Audio-Visual Aids (Ed 435) (3) ........................................ 3
- Student Teaching and Seminar (Secondary) (Ed 416) ................. 15

III Specialized Undergraduate Preparation

Minors:
The combined teaching minor in Language Arts, Social Science
(69 hrs.) or two other teaching minors selected from the fields
listed below: 4

- Art ........................................................................ 42
- Health and Physical Education ......................................... 48
- Language Arts-Social Science ........................................... 69
- Music ....................................................................... 42
- Biology ...................................................................... 40
- Language Arts .............................................................. 42
- Speech and Drama ......................................................... 21
- Pre-Algebra and General Mathematics or
  Elementary Algebra and Geometry .................................. 31
- Physical Science-General Science ...................................... 36
- Social Studies .............................................................. 54
- Library ...................................................................... 18

Choice of teaching minors will vary the number of free elective hours
to make a total program of 192 quarter hours.

Senior High School Curricula

Students who complete satisfactorily the requirements of a senior high school
curriculum in the degree programs of bachelor of science or bachelor of arts be-
come eligible for certification to teach in the three and four year senior high
schools of Oregon. As of July 1, 1965, students meet the requirements for the
Basic Teaching Certificate valid for three years, and must complete 24 quarter
hours of upper-division or graduate credit within three years applicable to a
planned fifth year of a five-year standard teacher education program. Eligibility
to teach at the desired level will be determined by satisfactory completion of
requirements for the desired level and teaching areas. All certificates are issued
by the superintendent of public instruction upon recommendation of the teacher
education institution.

Majors for senior high school teaching are offered in the areas of art educa-
tion, humanities, music education, science-mathematics, and social science, one
of which must be selected by the student. It is possible for students to meet ad-
tional teaching minors established by the state department of education in other
subjects taught in high schools.

Requirements for the Bachelor's Degree (Senior High School) 4

1. B.S. Degree:
   a. Grade-Point Average: a 2.00 cumulative in all college work, in all work
taken at OCE, in major area, and in each minor.

4 See pages 31-32.
b. Major: 63 hours, 27 hours of which must be upper division in a divisional major to be selected from the following: (The divisional major includes preparation in teaching fields as indicated.)

Art Education
   Teaching field: Art

Science-Mathematics
   Teaching fields:
   Biological Sciences
   Physical Science-
   General Science
   Chemistry
   Mathematics
   Social Science
   Teaching field: Social Studies

Humanities
   Teaching field: Literature,
   Writing, and Language

Music Education
   Teaching field: Music

c. Minor: Secondary Education. Minimum of 6 hours in addition to the education core required of all teacher candidates.

d. Teaching Minor: (optional second field)

Art

Health and Physical Education

Literature, Writing and Language

Speech and Drama

Library

Music

Physical Science-
   General Science

Biology

Minimum: Meeting the teaching minor requirements in one or more of the teaching minor programs listed in a planned and approved program with an advisor.

2. B.A. Degree

Completion of all requirements given under item 1, plus two years of college work in a modern foreign language.

I Lower Division General Education Requirements

<table>
<thead>
<tr>
<th>Humanities</th>
<th>Qt. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>A Planned Literature Sequence from World Literature or Shakespeare appropriate to teaching fields</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>9</td>
</tr>
<tr>
<td>A planned sequence selected from fields of History, Geography, Economics, Political Science, Sociology or Anthropology</td>
<td>9</td>
</tr>
<tr>
<td>Science-Mathematics</td>
<td>12</td>
</tr>
<tr>
<td>A Planned Sequence in Science-Mathematics</td>
<td>12</td>
</tr>
<tr>
<td>Art</td>
<td>3</td>
</tr>
<tr>
<td>Art Appreciation (A 127 or 128)</td>
<td>3</td>
</tr>
<tr>
<td>Music</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Music and its Literature (Mus 201 or 202)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>6</td>
</tr>
<tr>
<td>Psychology</td>
<td>9</td>
</tr>
<tr>
<td>General Psychology (Psy 201)</td>
<td>3</td>
</tr>
<tr>
<td>Human Development (Psy 311)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology of Adolescence (Psy 312)</td>
<td>3</td>
</tr>
</tbody>
</table>

63

1 Students taking a nine-hour science sequence, must also take Intermediate Algebra (Math 100) or its equivalent.
2 Students are required to complete six activity courses selected from at least four areas: Rhythms, Gymnastics and Self-Testing Activities, Aquatics, Individual and Dual Sports, and Team Sports. These may be either 100 or 200 courses. It is permissible to earn credit in two activity courses each term, only one of which may carry a 100 number.
3 See footnote page 43.
II Professional Teacher Education Requirements

Minor: Secondary Education

- Historical Foundations of Education (Ed 311) .................................................. 3
- Psychological Foundation of Education (Ed 316) .................................................. 4
- Principals of Secondary Teaching (Ed 314) ......................................................... 3
- Special Methods in Major Field ........................................................................... 3
- Audio-Visual Aids (Ed 435) ................................................................................ 3
- Student Teaching and Seminar (Secondary) (Ed 416) ......................................... 15

III Specialized Undergraduate Preparation

Major: One to be selected from the following (includes preparation in a teaching field):

- Art Education
  - Teaching field: Art

- Music Education
  - Teaching field: Music

Humanities
- Teaching field: Literature, Writing, and Language

Science-Mathematics
- Teaching fields:
  - Biology
  - Physical Science
  - General Science
  - Chemistry
  - Mathematics
  - Social Science
- Teaching field: Social Studies

Choice of major and minor(s) will vary the number of electives to make a total program of 192 quarter hours

ART EDUCATION
See pages 55-57

HUMANITIES

- World Literature (Eng 107, 108, 109) ................................................................. 9
- English Literature (Eng 340, 341, 342) ............................................................ 9
- Development of the English Novel (Eng 366) .................................................. 3
- Oral Interpretation (Sp 239) ............................................................................. 3
- Reading Instruction in Secondary School (Ed 341) ........................................... 3
- Advanced Composition (Wr 414) ..................................................................... 3
- Shakespeare (Eng 201, or 202 or 203) ............................................................ 3
- American Literature (Eng 380, 381) ............................................................... 6
- Development of the American Novel (Eng 367) .............................................. 3
- Development of Contemporary Novel (Eng 368) ........................................... 3

or
- Contemporary Literature (Eng 361)
- Development of the English Language (Eng 490) ........................................... 3
- Literature for Adolescents (Eng 489) ............................................................... 3
- Philosophy (Phil 311) ...................................................................................... 3
- Senior Seminar (Hum 407) ............................................................................. 3
- Humanities Electives, Approved .................................................................... 6

1 See pages 55-57.
2 See pages 55-56.
**MUSIC EDUCATION**
See pages 55-56

**SCIENCE-MATHEMATICS**

**(Biology Option)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Botany (Bot 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 202, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Natural History of Oregon (Bi 374, 375, 376)</td>
<td>9</td>
</tr>
<tr>
<td>Plant Physiology (Bot 331)</td>
<td></td>
</tr>
<tr>
<td>Structure of Seed Plants (Bot 371) or</td>
<td></td>
</tr>
<tr>
<td>Human Anatomy and Physiology (Z 334, 335)</td>
<td></td>
</tr>
<tr>
<td>Comparative Vertebrate Embryology (Z 326)</td>
<td>3</td>
</tr>
<tr>
<td>Genetics (Bi 341)</td>
<td>3</td>
</tr>
<tr>
<td>Evolution (Bi 446)</td>
<td>3</td>
</tr>
<tr>
<td>Preparation of Biological Materials (Bi 460)</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Intermediate Algebra (Mth 100)</td>
<td>8</td>
</tr>
<tr>
<td>College Algebra (Mth 101)</td>
<td>20</td>
</tr>
</tbody>
</table>

**(Chemistry Option)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Quantitative Analysis (Ch 312, 313)</td>
<td>4-8</td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335, 336)</td>
<td>8-12</td>
</tr>
<tr>
<td>Elementary Physical Chemistry (Ch 340)</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives in Chemistry</td>
<td>0-9</td>
</tr>
<tr>
<td>College Algebra (Mth 101)</td>
<td></td>
</tr>
<tr>
<td>Trigonometry (Mth 102)</td>
<td>12</td>
</tr>
<tr>
<td>Analytic Geometry (Mth 103)</td>
<td></td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Upper Division electives in Sci or Mth</td>
<td></td>
</tr>
</tbody>
</table>

This permits also the teaching of Physics as a minor area and satisfies the requirements in Pre-Algebra and General Mathematics.

**(Physical Science-General Science Option)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>General Biology (Bi 101, 102, 103)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>General Botany (Bot 201, 202, 203) or</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td></td>
</tr>
<tr>
<td>Astronomy (GS 424)</td>
<td>3</td>
</tr>
<tr>
<td>Elements of Geology (G 331)</td>
<td>3</td>
</tr>
<tr>
<td>Basic Meteorology (Ph 390)</td>
<td></td>
</tr>
<tr>
<td>Upper Division electives in Science</td>
<td>18</td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>College Algebra (Mth 101)</td>
<td></td>
</tr>
<tr>
<td>Trigonometry (Mth 102)</td>
<td>12</td>
</tr>
<tr>
<td>Analytic Geometry (Mth 103)</td>
<td></td>
</tr>
</tbody>
</table>

This program also satisfies the requirements in Pre-Algebra and General Mathematics.

1 Bi 460 is the special secondary methods course for Biology.
(Mathematics Option)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra (Mth 101)</td>
<td>3</td>
</tr>
<tr>
<td>Trigonometry (Mth 102)</td>
<td>3</td>
</tr>
<tr>
<td>Analytic Geometry (Mth 103)</td>
<td>3</td>
</tr>
<tr>
<td>Differential and Integral Calculus (Mth 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Linear Algebra (Mth 314)</td>
<td>3</td>
</tr>
<tr>
<td>Geometry (Mth 344)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics for Secondary Teachers (Mth 491, 492, 493)</td>
<td>9</td>
</tr>
<tr>
<td>Approved Upper Division electives in Mathematics</td>
<td>12</td>
</tr>
</tbody>
</table>

General Physics (Ph 201, 202, 203) ........................................ 51
General Physics (Ph 207, 208, 209) ........................................ 63

**SOCIAL SCIENCE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of Western Civilization (Hist 101, 102, 103)</td>
<td>9</td>
</tr>
<tr>
<td>History of the United States (Hist 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Introductory Geography (Geog 105, 106, 107)</td>
<td>9</td>
</tr>
<tr>
<td>American Governments (PS 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Principles of Economics (Econ 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Principles of Sociology (Soc 307 and 2 electives)</td>
<td>9</td>
</tr>
<tr>
<td>Electives$^{1,2}$</td>
<td>9</td>
</tr>
</tbody>
</table>

---

**Teaching Minor (Optional)**

Completion of the requirements for one teaching minor in addition to the student's major field.

<table>
<thead>
<tr>
<th>Minor</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>42</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>48</td>
</tr>
<tr>
<td>Literature, Writing and Language</td>
<td>42</td>
</tr>
<tr>
<td>Speech and Drama</td>
<td>21</td>
</tr>
<tr>
<td>Library</td>
<td>18</td>
</tr>
<tr>
<td>Music</td>
<td>42</td>
</tr>
<tr>
<td>Physical Science-General Science</td>
<td>36</td>
</tr>
<tr>
<td>Biology</td>
<td>40</td>
</tr>
<tr>
<td>Chemistry</td>
<td>36</td>
</tr>
<tr>
<td>Elementary Algebra and Geometry</td>
<td>31</td>
</tr>
<tr>
<td>Advanced Mathematics</td>
<td>39</td>
</tr>
<tr>
<td>Social Studies</td>
<td>54</td>
</tr>
<tr>
<td>Educational Specialist</td>
<td></td>
</tr>
<tr>
<td>Extreme Learning Problems</td>
<td></td>
</tr>
<tr>
<td>Mental Retardation</td>
<td></td>
</tr>
<tr>
<td>Speech Correction</td>
<td></td>
</tr>
</tbody>
</table>

Choice of major and minor(s) will vary the number of electives

---

$^{1}$ Mth 492 is the special secondary methods course for mathematics.

$^{2}$ Planned elective patterns may lead to completion of requirements in fifth-year program in geography and history.
Specialized Programs in Dual Elementary and Secondary Levels

Music Education

Major: Music Education
Minor: Education .............................................. 48 hrs.

The curriculum in Music Education is designed for students who wish to prepare themselves for the teaching and supervision of vocal and instrumental music in both elementary and secondary schools. It meets the state certification requirements for the basic norm in music and the basic general norm as a secondary teacher.

I Lower Division General Education Requirements

Art ......................................................... 4
Drawing Processes for Elementary (A 221) ................. 2
Lettering Processes for Elementary (A 237) ................ 2

Humanities1 .................................. 36
English Composition (Wr 111, 112, 113) .................... 9
Fundamentals of Speech (Sp 111) .......................... 3
World Literature (Eng 107, 108, 109) ....................... 9
Introduction to Music and its Literature (Mus 201, 202, 203) 9

Play Production (Sp 357) .................................. 3
Theory of Acting (Sp 356) .................................. 3

Physical Education .................................. 6
Basic Rhythms (PE 111, 211), Games and Relays (PE 113),
Gymnastics and Self-Testing (PE 115, 212), Individual and
Dual Sports (PE 114, 214), Aquatics (PE 115, 213) Team
Sport (PE 115, 215)

Science-Mathematics .......................... 12
Foundations of Physical Science (GS 201, 202, 203) .... 12
or an approved sequence in science or mathematics

Social Science ................................ 9
History of Western Civilization (Hst 101, 102, 103) .... 9
or an approved sequence in social science

Psychology2 .................................. 9
General Psychology (Psy 201) ................................ 3
Human Development (Psy 311) ............................ 3
Psychology of Adolescence (Psy 312) .................... 3

Total ............................................. 76

II Professional Teacher Education Requirements

Minor: Education .................................... 37

Historical Foundation of Education (Ed 311) ................ 3
Psychological Foundation of Education (Ed 316) ........... 4
Principles of Secondary Teaching (Ed 314) .................. 3
Audio-Visual Aids (Ed 435) ................................ 3
Music Education (Elementary) (Mus 383) ................. 3
Music Education (Secondary) (Mus 384) .................. 3
Methods and Research Materials: Music (Ed 410) ....... 3
Student Teaching (Elementary) (Ed 415) (5-10 hours) .... 15
Student Teaching (Secondary) (Ed 416) (5-10 hours) ...

---

1 Students desiring to complete a minor program in another approved area may do so with the approval of the Department of Music.
2 See footnote page 43.
Music Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Qt. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory I (Mus 121, 122, 123)</td>
<td>12</td>
</tr>
<tr>
<td>Music Theory II (Mus 221, 222, 223)</td>
<td>9</td>
</tr>
<tr>
<td>Keyboard Harmony (Mus 224, 225, 226)</td>
<td>3</td>
</tr>
<tr>
<td>Harmonic and Structural Analysis (Mus 314, 315, 316)</td>
<td>6</td>
</tr>
<tr>
<td>Conducting (Mus 320, 323)</td>
<td>4</td>
</tr>
<tr>
<td>Applied Music (Mus 190, 290, 390, 490)</td>
<td>11</td>
</tr>
<tr>
<td>Class Lessons in Voice (Mus 181, 182, 183)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Class Lessons in Piano (Mus 192, 193, 194)</td>
<td>3</td>
</tr>
<tr>
<td>Band (Mus 195, 295, 395, 495)</td>
<td>11</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Orchestra (Mus 196, 296, 396, 496)</td>
<td>11</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Choir (Mus 197, 297, 397, 497)</td>
<td>3</td>
</tr>
<tr>
<td>Brass, Woodwind, String and Percussion Instruments (Mus 235, 236, 237)</td>
<td>3</td>
</tr>
<tr>
<td>Band and Orchestra Management (Mus 347)</td>
<td>3</td>
</tr>
<tr>
<td>History of Music (Mus 360, 361, 362)</td>
<td>9</td>
</tr>
</tbody>
</table>

Before being recommended for a degree, students must be able to play at sight piano accompaniments of moderate difficulty.

Electives

Total for B.S. degree

---

Art Education

Major in Art Education

A five-year program consisting of 240 quarter hours of work leading to a baccalaureate degree and state certification.

Major:
1. Art Education—79 hours
2. Education—65 hours

Unique feature of the Art Education Major.

Upon completion of the 5-year program (240 quarter hours) the student will have completed the requirements for a basic certificate for elementary, junior high and senior high teaching, and in Art. These may be converted into standard certification after two years of teaching.

FIVE-YEAR PROGRAM

I Lower Division General Education Requirements

<table>
<thead>
<tr>
<th>Department</th>
<th>Qt. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>21</td>
</tr>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>World Literature (Eng 102, 108, 109)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Music</td>
<td>3</td>
</tr>
<tr>
<td>Music Fundamentals (Mus 381)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>6</td>
</tr>
<tr>
<td>Basic Rhythms (PE 111, 211)</td>
<td></td>
</tr>
<tr>
<td>Games and Relays (PE 115)</td>
<td></td>
</tr>
<tr>
<td>Gymnastics and Self-Testing (PE 112, 212)</td>
<td>6</td>
</tr>
<tr>
<td>Individual and Dual Sports (PE 114, 214)</td>
<td>6</td>
</tr>
<tr>
<td>Aquatics (PE 113, 213) Team Sport (PE 115, 215)</td>
<td>6</td>
</tr>
<tr>
<td>Science</td>
<td>9-12</td>
</tr>
<tr>
<td>Foundations of Physical Science (GS 104, 105, 106) or an approved sequence in science</td>
<td>9-12</td>
</tr>
<tr>
<td>Mathematics</td>
<td>12</td>
</tr>
<tr>
<td>Essentials of Mathematics (Mth 121, 122, 123)</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics for Elementary Teachers (Mth 311)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>18</td>
</tr>
<tr>
<td>History of Western Civilization (Hst 101, 102, 103) or</td>
<td>9</td>
</tr>
<tr>
<td>History of the United States (Hst 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Introductory Geography (Geog 105, 106)</td>
<td>6</td>
</tr>
<tr>
<td>History of the Pacific Northwest (Hst 478)</td>
<td>3</td>
</tr>
</tbody>
</table>
II Professional Teacher Education Requirements

Major: Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historical Foundations of Education (Ed 311)</td>
<td>3</td>
</tr>
<tr>
<td>Learning and InSTRUCTION in Elementary Education(^2) (Ed 361, 362)</td>
<td>18</td>
</tr>
<tr>
<td>Psychology of Secondary Teaching (Ed 214) or Teaching the Junior High School (Ed 342)</td>
<td>3-4</td>
</tr>
<tr>
<td>Children’s Literature (Eng 388) or Literature for Adolescents (Eng 480)</td>
<td>3</td>
</tr>
<tr>
<td>Music Education (Elementary) (Mus 383)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education in the Grades (Ed 344)</td>
<td>3</td>
</tr>
<tr>
<td>School Health Program (Ed 351)</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching (Ed 415-416)</td>
<td>20</td>
</tr>
</tbody>
</table>

III Specialized Undergraduate Preparation

Major: Art Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Majors will be required to select courses to comply with the indicated required credit hours from each of the five areas</td>
<td>79</td>
</tr>
</tbody>
</table>

I. Crafts

<table>
<thead>
<tr>
<th>Area</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Ceramics and Sculpture</td>
<td>Introduction to Ceramics (A 254)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Ceramics (A 255)</td>
<td>2-4</td>
</tr>
<tr>
<td></td>
<td>Ceramic Sculpture (A 319)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Sculpture (A 331)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Crafts Mosaics (A 447)</td>
<td>2</td>
</tr>
<tr>
<td>B. General Crafts</td>
<td>Basic Crafts (A 230)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Bookbinding (A 261)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Puppetry (A 312)</td>
<td>2</td>
</tr>
<tr>
<td>C. Metal</td>
<td>Jewelry (A 315)</td>
<td>2-4</td>
</tr>
<tr>
<td></td>
<td>Metalsmithing (A 316)</td>
<td>3-4</td>
</tr>
<tr>
<td>D. Printmaking</td>
<td>Crafts Enameling (A 448)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Graphic Processes (A 223)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Silk Screen Printing (A 224)</td>
<td>2</td>
</tr>
</tbody>
</table>

II. Design and Lettering

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design (A 228)</td>
<td>2-4</td>
</tr>
<tr>
<td>Lettering (A 238)</td>
<td>2</td>
</tr>
<tr>
<td>Layout and Design (A 242)</td>
<td>2</td>
</tr>
<tr>
<td>Advertising Design (A 425)</td>
<td>2</td>
</tr>
<tr>
<td>Visual Techniques (A 434)</td>
<td>3</td>
</tr>
</tbody>
</table>

III. Drawing and Painting

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watercolor (A 225)</td>
<td>2</td>
</tr>
<tr>
<td>Drawing (A 226)</td>
<td>2</td>
</tr>
<tr>
<td>Figure Drawing (A 317)</td>
<td>2</td>
</tr>
<tr>
<td>Painting (A 318)</td>
<td>2</td>
</tr>
<tr>
<td>Sketching (A 351)</td>
<td>2</td>
</tr>
</tbody>
</table>

IV. Specialized Professional Courses in Art Education

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing Processes for Elementary (A 221)</td>
<td>2</td>
</tr>
<tr>
<td>Lettering Processes for Elementary (A 222)</td>
<td>2</td>
</tr>
<tr>
<td>Art Education (Elementary) (A 323)</td>
<td>3</td>
</tr>
<tr>
<td>Art Education (Secondary) (A 324)</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods and Materials (A 410)</td>
<td>3-6</td>
</tr>
</tbody>
</table>

V. History and Appreciation

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Appreciation II (A 128)</td>
<td>3</td>
</tr>
<tr>
<td>Art History (A 251)</td>
<td>3</td>
</tr>
<tr>
<td>Art History II (A 252)</td>
<td>3</td>
</tr>
<tr>
<td>Art History III (A 253)</td>
<td>3</td>
</tr>
<tr>
<td>Art in Environment (A 352)</td>
<td>2</td>
</tr>
<tr>
<td>Appreciative Aspects of Arts (A 453)</td>
<td>3</td>
</tr>
</tbody>
</table>

General Electives               | 24-27   |

Total for B.S. degree                         | 240     |

\(^1\) See footnote page 43.
\(^2\) See footnote page 43.
Suggested courses to be delayed until the 5th year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Secondary Teaching (Ed 314)</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching (Ed 415-416)</td>
<td>20</td>
</tr>
<tr>
<td>Art Education Major Requirements to be distributed in the four listed areas as follows:</td>
<td>17</td>
</tr>
<tr>
<td>Crafts</td>
<td>8</td>
</tr>
<tr>
<td>Design and Lettering</td>
<td>2</td>
</tr>
<tr>
<td>Drawing and Painting</td>
<td>4</td>
</tr>
<tr>
<td>History and Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>45</td>
</tr>
</tbody>
</table>

Teaching Minors

The curriculum at Oregon College of Education is organized on a divisional rather than a departmental basis and includes offerings in social science, humanities, science-mathematics, art, music, physical education and education. State subject matter requirements are met in the following fields taught in the junior and senior high schools of Oregon.

Art

The four year program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Crafts (including ceramics and sculpture, general crafts, metal and printmaking) (A 223, 224, 230, 234, 255, 312, 315, 319, 331, 447, 448)</td>
<td>12</td>
</tr>
<tr>
<td>Design and Lettering (A 228, 238, 424, 425, 434g)</td>
<td>6</td>
</tr>
<tr>
<td>Drawing and Painting (A 225, 226, 317, 318, 351)</td>
<td>6</td>
</tr>
<tr>
<td>Art Education (A 221, 222, 237, 426g)</td>
<td>9</td>
</tr>
<tr>
<td>History and Appreciation (A 127, 128, 251, 252, 253, 332, 453g)</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>42</td>
</tr>
</tbody>
</table>

Physical Education

The four year program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Aid (HE 252)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education in the Grades (Elem &amp; Sec) (Ed 344)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Physical Education (PE 447g)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Organization and Administration of Physical Ed (PE 343)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Kinesiology (PE 371)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy and Physiology (Z 334, 335)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Personal Hygiene (HE 151)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Athletic Training and Conditioning (PE 359)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Coaching Courses (PE 363, 364, 365, 366, 367, 368)</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Officiating Sports (PE 337, 338, 339)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Rhythms (PE 111, 211)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Gymnastics and Self Testing Activities (PE 112, 212)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Aquatics (PE 113, 213)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Individual and Dual Sports (PE 114, 214)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Team Sports (PE 115, 215)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiology of Exercise (PE 473)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>The Physical Education Curriculum (PE 445g)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Total: 49
Health and Physical Education

The four year program.

Anatomy and Physiology (Z 334-335) ........................................... 6
Organization and Administration of Physical Education (PE 343) .......... 3
Principles of Physical Education (PE 447g) .................................. 3
Physical Education in the Grades (Ed 344) .................................. 3
Kinesiology (PE 371) ......................................................................... 3
Athletic Training & Conditioning or Officiating Sports (PE 359 or 337, 338, 339) ................................................................. 2
The Physical Education Curriculum (PE 445g) ................................ 3
Rhythms (PE 111, 211) ................................................................. 3
Gymnastics and Self Testing Activities (PE 112, 212) ...................... 2
Aquatics (PE 113, 213) ................................................................. 2
Individual and Dual Sports (PE 114, 214) ................................... 3
Team Sports (PE 115, 215) ........................................................... 3
Nutrition (HE 352) ......................................................................... 3
First Aid (HE 252) ........................................................................... 2
Personal Hygiene (HE 151) ............................................................ 2
School Health Program (Ed 351) .................................................. 3
                                                                 49

Literature, Writing, and Language

The four year program.

English Composition (Wr 111, 112, 113) ........................................ 9
Fundamentals of Speech (Sp 111) .................................................. 3
World Literature (Eng 107, 108, 109) ........................................... 9
English Literature (Eng 340, 341, 342) ......................................... 9
Development of the English Language (Eng 490g) ......................... 3
Nature of the English Language (Eng 494g) .................................. 3
Advanced Composition (Wr 414g) ............................................... 3
American Literature (Eng 380, 381) ............................................. 6
Reading in the Secondary School (Ed 341) ................................... 3
Shakespeare (Eng 201) ............................................................... 3
Senior Seminar (Hum 407) ......................................................... 3
                                                                 54

The fifth year program.

Development of the American Novel (Eng 367) ............................... 3
Literature for adolescents (Eng 489g) ........................................... 3
Major Theories of Literary Criticism (Eng 446g) ............................. 3
Development of the Contemporary Novel (Eng 368) ....................... 3
Development of the English Novel (Eng 366) ................................. 3
Oral Interpretation (Sp 235) ....................................................... 3
                                                                 18
                                                                 72

Combined Language Arts, Social Science

The four year program.

Humanities

English Composition (Wr 111, 112, 113) ........................................ 9
Fundamentals of Speech (Sp 111) .................................................. 3
World Literature, two only (Eng 107, 108, 109) ............................ 6
English Literature, one only (Eng 340, 341, 342) ......................... 3
Nature of the English Language (Eng 494g) .................................. 3
Advanced Composition (Wr 414g) ............................................... 3
American Literature, one only (Eng 380, 381, 382) ....................... 3
Literature for Adolescents (Eng 489g) ......................................... 3
Development of the English Language (Eng 490g) ......................... 3
                                                                 36

Social Science

History of Western Civilization (Hist 101, 102, 103) ....................... 9
History of the United States (Hist 201, 202, 203) ......................... 9
Introductory Geography (Geog 105, 106, 107) ............................. 9
American Governments (PS 201, 202) ........................................ 9
                                                                 33
                                                                 69
The fifth year program.

**Humanities**

- Development of the English Novel (Eng 366) ........................................ 3
- Shakespeare, two only (Eng 201, 202, or 203) ...................................... 6
- American Literature (Eng 380, 381, 382) ........................................... 3

**Social Science**

- Principles of Sociology (Soc 307) .................................................. 3
- Anthropology, one only (Soc 214, 215, or 216) .................................. 3
- World Problems (Hst 402g) .............................................................. 3
- Upper division electives in Geography or Sociology .............................. 3
- History of the Pacific Northwest (Hst 478g) ...................................... 3

**Speech and Drama**

The four year program.

- Fundamentals of Speech (Sp 111) ...................................................... 3
- Speech Science (Sp 371) ................................................................. 3
- Oral Interpretation (Sp 239) ............................................................ 3
- Theory of Acting (Sp 356) ............................................................... 3
- Play Production (Sp 357) ................................................................. 3
- Stagecraft (Sp 344, 345, 346) ......................................................... 2
- Make-Up (Sp 255) ................................................................................ 1
- Dramatics in the School (Sp 415g) ...................................................... 3

**Pre-Algebra and General Mathematics**

The four year program.

- College Algebra Sequence (Mth 101, 102, 103) .................................. 12
- Mathematics for Secondary Teachers (Mth 491) .................................. 3

or

- Essentials of Mathematics (Mth 121, 122, 123) .................................. 9
- College Algebra (Mth 101) ................................................................. 4
- Mathematics for Secondary Teachers (Mth 491) .................................. 15–16

The fifth-year program.

- Mathematics for Secondary Teachers (Mth 492, 493) .......................... 6
- Electives in Mathematics ..................................................................... 6

**Elementary Algebra and Geometry**

The four year program.

- College Algebra Sequence (Mth 101, 102, 103) .................................. 12
- Calculus (Mth 201) .............................................................................. 4
- Mathematics for Secondary Teachers (Mth 492) .................................. 3
- Advanced Algebra and Geometry (Mth 344 and 344) .......................... 6
- Electives in Mathematics ..................................................................... 31

The fifth year program.

- Calculus (Mth 202-203) ................................................................. 8
- Mathematics for Secondary Teachers (Mth 491 and 493) .................. 6

**Advanced Mathematics**

The four year program.

- College Algebra course (Mth 101, 102, 103) ..................................... 12
- Differential and Integral Calculus (Mth 201, 202, 203) .................... 12
- Mathematics for Secondary Teachers (Mth 491, 492, 493) ............... 9
- Advanced College Algebra (Mth 214) .............................................. 3
- Advanced College Geometry (Mth 344) ............................................ 3

The fifth year program.

- Mathematics Sequence (Mth 410, 412, 415) ..................................... 9
- Approved electives in mathematics ................................................... 9

**Total** ..................................................................................................... 57
## Music

### The four year program.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory (Mus 121, 122, 123)</td>
<td>12</td>
</tr>
<tr>
<td>Introduction to Music and its Literature (Mus 202, 203)</td>
<td>6</td>
</tr>
<tr>
<td>Applied Music (Mus 290)</td>
<td>1</td>
</tr>
<tr>
<td>Class Voice or Piano (Mus 181, 182, 183 or Mus 192, 193, 194)</td>
<td>3</td>
</tr>
<tr>
<td>Band, Orchestra or Choir (Mus 195, or Mus 196 or Mus 197)</td>
<td>3</td>
</tr>
<tr>
<td>Brass, Woodwinds, Percussion, and Strings (Mus 235, 236, 237)</td>
<td>3</td>
</tr>
<tr>
<td>Harmonic and Structural Analysis (Mus 314, 315, 316)</td>
<td>6</td>
</tr>
<tr>
<td>Music Education (Mus 383)</td>
<td>3</td>
</tr>
<tr>
<td>Band and Orchestra Management or Methods and Research Materials: Music (Mus 347 or Ed 410G)</td>
<td>3</td>
</tr>
<tr>
<td>Conducting (Mus 360)</td>
<td>2</td>
</tr>
</tbody>
</table>

### Total Credits: 42

## Biology

### The four year program.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Botany (Bot 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Preparation of Biological Materials (Bi 460g)</td>
<td>4</td>
</tr>
<tr>
<td>Natural History of Oregon (Bi 374)</td>
<td>3</td>
</tr>
<tr>
<td>Genetics (Bi 341)</td>
<td>3</td>
</tr>
<tr>
<td>Physiology and Anatomy (Z 334, 335 or Bot 321, 322)</td>
<td>6</td>
</tr>
<tr>
<td>Evolution (Bi 446g)</td>
<td>3</td>
</tr>
<tr>
<td>Embryology (Z 326)</td>
<td>3</td>
</tr>
</tbody>
</table>

### The fifth year program.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microbiology (Bi 412g)</td>
<td>4</td>
</tr>
<tr>
<td>Ecology (Bi 453g)</td>
<td>3</td>
</tr>
<tr>
<td>Field Biology (Bi 458g)</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Biology</td>
<td>8</td>
</tr>
</tbody>
</table>

### Total Credits: 58

## Chemistry

### The four year program.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry (Ch 104, 105, 106 or Ch 204, 205, 206)</td>
<td>12-15</td>
</tr>
<tr>
<td>Quantitative Analysis (Ch 312, 313)</td>
<td>4-8</td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335, 336)</td>
<td>8-12</td>
</tr>
<tr>
<td>Physical Chemistry (Ch 340)</td>
<td>3</td>
</tr>
<tr>
<td>Upper division electives, Chemistry</td>
<td>0-9</td>
</tr>
</tbody>
</table>

### The fifth year program.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Inorganic Chemistry (Ch 417g)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Analytical Chemistry (Ch 425g)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Organic Chemistry (Ch 433g)</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Chemistry</td>
<td>9</td>
</tr>
</tbody>
</table>

### Total Credits: 54

## Physical Science-General Science

### The four year program.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>Biological Science (Biology, Botany or Zoology)</td>
<td>9</td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Earth Science (G 351)</td>
<td>3</td>
</tr>
</tbody>
</table>

### The fifth year program.

#### Physical Science

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Inorganic Chemistry (Ch 417g)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Organic Chemistry (Ch 433g)</td>
<td>3</td>
</tr>
<tr>
<td>Modern Physics (Ph 421, 422g)</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Physical Science</td>
<td>6</td>
</tr>
</tbody>
</table>

or

#### General Science

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evolution (Bi 446g)</td>
<td>3</td>
</tr>
<tr>
<td>Preparation of Biological Materials (Bi 460g)</td>
<td>3</td>
</tr>
<tr>
<td>Rocks and Minerals (G 450g)</td>
<td>3</td>
</tr>
<tr>
<td>Geology of the Pacific Northwest (G 453g)</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Physical Science</td>
<td>6</td>
</tr>
</tbody>
</table>

### Total Credits: 54
Social Science

The four year program.
History of Western Civilization (Hist 101, 102, 103) 9
History of the United States (Hist 201, 202, 203) 9
Introductory Geography (Geog 105, 106, 107) 9
American Governments (Pol Sci 201, 202, 203) 9
Principles of Economics (Econ 201, 202, 203) 9
Principles of Sociology (Soc 307 and 2 electives) 9

The fifth year program.
Student to select one of the following:

History

Teaching Minor plus:
- History of the West (Hist 476, 477g) 3
- Civil War and Reconstruction (Hist 458g) 3
- Colonial America (Hist 483g) 3
- The New Nation (Hist 484g) 3
- History of the Pacific Northwest (Hist 478g) 3 18

or

Teaching Minor plus 18 hours of the following:
- History of the Far East (Hist 390, 391, 392, 393) 12
- Latin America (Hist 350, 351, 352) 9
- History of the Soviet Union (Hist 449g) 3
- World Problems (Hist 492g) 3 18

or

Teaching Minor plus:
- Europe Since 1789 (Hist 341, 342, 343) 9 18
- English History (Hist 304, 305, 306) 9

Geography

Teaching Minor plus:
- Conservation (Geog 425g) 3
- Europe (Geog 436g) 3
- Soviet Union (Geog 427g) 3
- Australasia and Oceania (Geog 428g) 3
- North America (Geog 429g) 3
- Africa (Geog 432g) 3
- Asia (Geog 450g) 3
- South America (Geog 461g) 3
- Middle America (Geog 463g) 3 27

Library

The four year program.
- Introduction to Cataloging and Classification (Lib 386) 3
- Children's Literature (Eng 388) 3
- Book Selection and Reference Materials (Lib 390) 3
- Administration of School Libraries (Lib 392) 3
- Literature for Adolescents (Lib 389) 3
- Audio-Visual Aids (Ed 435g) 3
- Reading and Telling Children's Stories (Ed 389) 3 21

General Studies

The general studies degree program is designed to provide broad preparation in the three areas of social science, humanities, and science-mathematics. The purpose of this program is to give students the opportunity to obtain, in a smaller state-supported college, a liberal education with emphasis on breadth rather than specialization.

*Requirements for the Bachelor's Degree
1. B.S. Degree:
   a. Grade-Point Average: a 2.00 cumulative in all college work and in all work taken at OCE.

   * See institutional requirements, page 31.
b. Major: Minimum, 63 hours, 27 upper-division.
   1. Social Science: Minimum of 18 hours in history, 18 hours in psychology, sociology, and anthropology, 18 hours in political science and economics, and 9 hours in geography.
   2. Humanities: Minimum of 27 hours in literature, 9 hours in art, music, and drama, and 6 hours in philosophy. (See 2 below.)
   3. Science-Mathematics: Sequences of 9-12 hours in mathematics, biology, and chemistry or physics**; and advanced sequences in two of these fields.

c. First Minor: Minimum, 36 hours including two year sequences.
   1. Social Science.
   2. Humanities. (See 2 below.)

d. Second Minor: Minimum, 24 hours including two year sequences.
   (1) Social Science.
   (2) Humanities. (See 2 below.)
   (3) Science-Mathematics.

2. B.A. Degree:
Completion of all requirements given under 1, plus two years of college work in a modern foreign language. (The credit earned in college to meet this language requirement may be applied to a humanities major, a humanities first minor, or a humanities second minor.)

The general studies degree curriculum allocates the 192 term hours required for graduation as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major (including 27 upper-division)</td>
<td>63</td>
</tr>
<tr>
<td>First minor</td>
<td>36</td>
</tr>
<tr>
<td>Second minor</td>
<td>24</td>
</tr>
<tr>
<td>General requirements</td>
<td>18</td>
</tr>
<tr>
<td>Free electives</td>
<td>51</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>192</strong></td>
</tr>
</tbody>
</table>

First Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\ddagger$English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>$\ddagger$Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in humanities (literature)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in biological science, physical science, or mathematics</td>
<td>9-12</td>
</tr>
<tr>
<td>$\ddagger$Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4-6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48-49</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in humanities</td>
<td>9</td>
</tr>
<tr>
<td>$\ddagger$Physical Education (PE 100 and 200 courses)</td>
<td>9-12</td>
</tr>
<tr>
<td>Electives or requirements in the major or minor areas</td>
<td>15-18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

Third and Fourth Years

Total of 96 term hours to complete requirements for the four-year program. Advisers will have complete details and will assist in the preparation of each student's program.

** Students who select science-mathematics as the major area and are particularly interested in biology may substitute Foundations of Physical Science (GS 201, 202, 203) for the physics or chemistry requirement.

† These courses are necessary for graduation but do not satisfy major or minor requirements.
Lower-division sequences in social science, humanities, and science-mathematics are given on page 51. In the general studies program, psychology courses apply as social science and music and art courses apply as humanities. Thus, Psy 201, 202, 203, General Psychology, counts as a social science sequence and Mus 201, 202, 203, Introduction to Music and its Literature, is a humanities sequence. Although one sequence in a humanities minor must be literature, courses in foreign language are acceptable in a humanities major or minor; however, BA 211, 212, 213, Fundamentals of Accounting, although cataloged in the humanities section, cannot be applied as a humanities course.

Lower-Division Liberal Arts and Sciences

The primary purpose of the lower-division organization in the state system of higher education, as established by the state board of higher education, is as follows:

1. BASIC EDUCATION. Insuring to all students the elements of a sound general education during their first two years, delaying specialization until the junior and senior years, and then encouraging it to a high degree.

2. ORIENTATION. Providing students with a period of exploratory contact which will enable the institution to assist them in making a wise selection of specialization on the basis of their abilities and aptitudes.

Associate in Arts Certificate. Intended for students whose aim is to round out a general education in two years of college and granted on completion of the lower-division curriculum in liberal arts and sciences.

Group Requirements. Courses selected from these groups representing comprehensive areas of knowledge are required for these certificates. The three groups are: social science, humanities, and science-mathematics. The group requirements are: one sequence of at least nine term hours in each of the three groups and one additional sequence of nine term hours or more in any one of the same three groups. At least one sequence must be numbered 200-210.

Year sequences applicable in meeting group requirements are:

**Social Science Group**
Hst 101, 102, 103. History of Western Civilization, 3 hours each term.
Geog 105, 106, 107. Introductory Geography, 3 hours each term.
Hst 201, 202, 203. History of the United States, 3 hours each term.
Ec 201, 202, 203. Principles of Economics, 3 hours each term.
Psy 201, 202, 203. General Psychology, 3 hours each term.
PS 201, 202, 203. American Governments, 3 hours each term.
Soc 214, 215, 216. Anthropology, 3 hours each term.

**Humanities Group**
Eng 107, 108, 109. World Literature, 3 hours each term.
Eng 201, 202, 203. Shakespeare, 3 hours each term.

**Science-Mathematics Group**
Bi 101, 102, 103. General Biology, 3 hours each term.
Bot 201, 202, 203. General Botany, 3 hours each term.
Z 201, 202, 203. General Zoology, 3 hours each term.
GS 201, 202, 203. Foundations of Physical Science, 4 hours each term.
Ch 101, 102, 103. Elementary Chemistry, 4 hours each term.
Ch 201, 202, 203. General Chemistry, 4 hours each term.
Ph 201, 202, 203. General Physics, 4 hours each term.
G 201, 202, 203. Geology, 4 hours each term.
Three consecutive terms of Mth 100, 101, 102, 103. Intermediate Algebra, College Algebra, Trigonometry, Analytic Geometry, 4 hours each term. Mth 201, 202, 203. Differential and Integral Calculus, 4 hours each term.

**LOWER-DIVISION CURRICULUM IN LIBERAL ARTS AND SCIENCES**

<table>
<thead>
<tr>
<th>Department</th>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quarter hours</strong></td>
<td><strong>Quarter hours</strong></td>
<td><strong>Quarter hours</strong></td>
</tr>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in science-mathematics</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Personal Hygiene (HE 151)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>9-12</td>
<td>21-24</td>
</tr>
<tr>
<td>Electives</td>
<td>48</td>
<td>45</td>
</tr>
</tbody>
</table>

**Preprofessional Curricula**

Oregon College of Education offers opportunity for preprofessional preparation leading to later specialization. Two types of program are included in the following suggested study plans:

1. One- or two-year curricula in lower-division courses planned to prepare students for later specialization within a four-year degree program in the major field indicated.

2. One-, two-, or three-year curricula including prerequisites for admission to a professional school leading to a professional degree after more than four years.

It is suggested that the student planning such a program work closely with his adviser and consult with his major school before he is ready to transfer.

**AGRICULTURE**

<table>
<thead>
<tr>
<th>Department</th>
<th>First Year</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>College Algebra (Mth 101)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introduction to Journalism (J 211)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Botany (Bot 201, 202, 203)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>51</td>
<td></td>
</tr>
</tbody>
</table>

*See requirements page 31.*
## ART
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td></td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>General Psychology (Psy 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in humanities</td>
<td>9</td>
</tr>
<tr>
<td>Art Appreciation (A 127)</td>
<td>3</td>
</tr>
<tr>
<td>Drawing (A 221), Design (A 222)</td>
<td>6</td>
</tr>
<tr>
<td>Lettering (A 216)</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

## BIOLOGY
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Sequence in social science or humanities</td>
<td>9</td>
</tr>
<tr>
<td>General Botany (Bot 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 104, 105, 106 or 204, 205, 206)</td>
<td>12-15</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>51-54</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in humanities or social science</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335)</td>
<td>8</td>
</tr>
<tr>
<td>Math 100 or 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>French (RL 50, 51, 52 or 101, 102, 103)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

## BOTANY
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td></td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>General Botany (Bot 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 104, 105, 106 or 204, 205, 206)</td>
<td>12-15</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>6-9</td>
</tr>
<tr>
<td>Electives</td>
<td>48-54</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in humanities (French recommended)</td>
<td>12</td>
</tr>
<tr>
<td>Upper-Division Botany and Genetics</td>
<td>6</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335)</td>
<td>8</td>
</tr>
<tr>
<td>Math 100 or 101 or 102</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

## BUSINESS ADMINISTRATION
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td></td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>World Literature (Eng 107, 108, 109)</td>
<td>0</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geometry (Mth 101, 102, 103)</td>
<td>10</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>51</td>
</tr>
</tbody>
</table>
Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Economics (Ec 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Accounting (BA 211, 212, 213)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111, 112)</td>
<td>6</td>
</tr>
<tr>
<td>Elements of Statistical Methods (Mth 325)</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology (Psy 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>45</strong></td>
</tr>
</tbody>
</table>

BUSINESS ADMINISTRATION AND TECHNOLOGY

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Geography (Geo 105, 106, 107) or</td>
<td></td>
</tr>
<tr>
<td>Principles of Economics (Ec 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Accounting (BA 211, 212, 213)</td>
<td>9</td>
</tr>
<tr>
<td>*Sequence in science</td>
<td>9-12</td>
</tr>
<tr>
<td>Intermediate Algebra (Mth 100)</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>49-52</strong></td>
</tr>
</tbody>
</table>

CHEMISTRY

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in social science or humanities</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in humanities or social science</td>
<td>9</td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335, 336)</td>
<td>12</td>
</tr>
<tr>
<td>Differential and Integral Calculus (Mth 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

ENGINEERING

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics Sequence (Mth 104, 200, 201)</td>
<td>12</td>
</tr>
<tr>
<td>General Physics (Ph 207, 208, 209)</td>
<td>12</td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

FORESTRY

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>8</td>
</tr>
<tr>
<td>Elem. or Gen. Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>General Botany (Bot 201, 202)</td>
<td>6</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>53</strong></td>
</tr>
</tbody>
</table>

* Specific course to be determined by field of specialization.
## GEOLOGY
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 104, 105, 106 or 204, 205, 206)</td>
<td>12-15</td>
</tr>
<tr>
<td>Geology (G 201, 202, 203)</td>
<td>16</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103)</td>
<td>16</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>48-51</strong></td>
</tr>
</tbody>
</table>

## HOME ECONOMICS
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>History of Western Civilization (Hst 101, 102, 103)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>General Psych. (Psy 201, 202)</td>
<td>6</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Music and its Lit. (Mus 201)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

## INDUSTRIAL-ARTS EDUCATION
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology (Psy 201, 202)</td>
<td>6</td>
</tr>
<tr>
<td>History of the United States (Hst 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Foundations of Physical Science (GS 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Intermediate Algebra (Mth 100)</td>
<td>4</td>
</tr>
<tr>
<td>Personal Hygiene (HE 151)</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

## JOURNALISM
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>History of Western Civilization (Hst 101, 102, 103) or History of the United States (Hst 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>World Literature (Eng 107, 108, 109)</td>
<td>9</td>
</tr>
<tr>
<td>Introduction to Journalism (J 211)</td>
<td>3</td>
</tr>
<tr>
<td>General Biology (Bi 101, 102, 103)</td>
<td>9</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives (music or art)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Economics (Ec 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>American Governments (PS 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in anthropology, geography, or psychology</td>
<td>9</td>
</tr>
<tr>
<td>English Literature (Eng 340, 341, 342) or American Literature (Eng 380, 381)</td>
<td>9</td>
</tr>
<tr>
<td>Foundations of Physical Science (GS 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>
MATHEMATICS
First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in humanities or social science</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in social science or humanities</td>
<td>9</td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Differential and Integral Calculus (Mth 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>45</strong></td>
</tr>
</tbody>
</table>

MICROBIOLOGY
First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in humanities or social science</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>

MUSIC
First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>World Literature (Eng 107, 108, 109)</td>
<td>9</td>
</tr>
<tr>
<td>General Biology (Bi 101, 102, 103)</td>
<td>9</td>
</tr>
<tr>
<td>Music Theory I (Mus 121, 122, 123)</td>
<td>12</td>
</tr>
<tr>
<td>Band, Orchestra, or Chorus (Mus 195, 197)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology (Psy 201, 202)</td>
<td>6</td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>Introduction to Music and its Literature (Mus 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Music Theory II (Mus 221, 222, 223)</td>
<td>9</td>
</tr>
<tr>
<td>Keyboard Harmony (Mus 214, 215, 216)</td>
<td>3</td>
</tr>
<tr>
<td>Applied Music—instrumental or voice (Mus 190)</td>
<td>3</td>
</tr>
<tr>
<td>Band, Orchestra, or Chorus (Mus 195, 197)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

PHYSICAL EDUCATION
First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology (Psy 201, 202)</td>
<td>6</td>
</tr>
<tr>
<td>World Literature (Eng 107, 108, 109)</td>
<td>9</td>
</tr>
<tr>
<td>General Biology (Bi 101, 102, 103) or General Chemistry (Ch 201, 202, 203)</td>
<td>9-12</td>
</tr>
<tr>
<td>Personal Hygiene (HE 151)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>47-50</strong></td>
</tr>
</tbody>
</table>
### PHYSICS

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Physics (Ph 207, 208, 209)</td>
<td>12</td>
</tr>
<tr>
<td>Algebra and Trigonometry (Mth 164)</td>
<td>4</td>
</tr>
<tr>
<td>Calculus (Mth 200, 201)</td>
<td>8</td>
</tr>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Introduction to Modern Physics (Ph 311, 312, 313)</td>
<td>9</td>
</tr>
<tr>
<td>Calculus (Mth 202, 203)</td>
<td>8</td>
</tr>
<tr>
<td>Sequence in humanities</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

### ZOOLOGY

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in social science or humanities</td>
<td>9</td>
</tr>
<tr>
<td>General Botany (Bot 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>Comparative Vertebrate Anatomy (Z 324, 325)</td>
<td>8</td>
</tr>
<tr>
<td>Comparative Vertebrate Embryology (Z 326)</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

The preprofessional curricula which follow include those offered at Oregon College of Education to meet prerequisite requirements for admission to a professional school leading to a professional degree, which in almost all cases calls for more than four years of study. Wherever a three-year preprofessional program is required or desired, it is possible to qualify for a bachelor of science or bachelor of arts degree in general studies as well as the professional degree, provided required courses and electives are carefully selected as indicated in the curricular patterns.

All students should work carefully from the beginning of their study at OCE with the appropriate faculty adviser in order to become informed about the professional schools in which they may be interested and to assure study programs that meet all requirements. The name of the adviser for each program can be obtained in the registrar's office.
ARCHITECTURE

Preprofessional First Year
(Two years required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>Sequence in humanities (Literature)</td>
<td>9</td>
</tr>
<tr>
<td>College Algebra, Trigonometry, Analytic Geometry (Mth 101, 102, 103)</td>
<td>12</td>
</tr>
<tr>
<td>Drawing (A 226), Design (A 228)</td>
<td>5</td>
</tr>
<tr>
<td>Lettering (A 237)</td>
<td>2</td>
</tr>
<tr>
<td>Personal Hygiene (HE 151)</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>52</td>
</tr>
</tbody>
</table>

LAW

Preprofessional Program

The minimum requirement for admission to the School of Law, University of Oregon, is three-fourths of the total credit required for a bachelor’s degree from the institution in which the student completes his prelegal work—but not less than 140 term hours.

The prelegal program should include courses satisfying all lower-division requirements of the university and a minimum of 36 term hours of credit in courses in the general area of social science. The first-year basic college course in accounting is desirable. It is suggested that the student follow the first three years of the general studies degree program with a major in social science. (See General Studies, page 61.)

For admission to the school of law, a student must have, for all prelegal work, a cumulative grade-point average of at least 2.25. Applicants must take such entrance or aptitude examinations as may be required by the faculty of the school. All students seeking admission to the school of law must file formal application for admission with the dean of the school. Official forms may be obtained from the school of law.

HEALTH SCIENCES

PREDENTISTRY

It is strongly recommended that predental students devote at least three years to their predental education. Although the minimum period required by the Council of Dental Education of the American Dental Association is two years, only those students who have completed a two-year program with a superior grade-point average will be considered for admission to dental school. It is improbable that any student with a grade-point average of less than 2.25 will be accepted for admission.

Students at Oregon College of Education who plan to enter dental school before receiving a baccalaureate degree should arrange their study program so that they may qualify for the bachelor of science or bachelor of arts degree in general studies after satisfactory completion of one or two years in dental school. This will be possible only if their three-year predental program includes not less than 144 term hours and meets all requirements for the degree, except for upper-division science courses which can be transferred from dental school to apply on the major in science-mathematics and complete the total number of hours needed for graduation. (See General Studies, page 61.)

The following three-year curriculum includes all subjects required for admission to the University of Oregon Dental School or other approved dental schools, elective courses recommended for broad background preparation in both cultural and scientific fields, and the basic pattern established for the bachelor’s degree in general studies.
First Year

English Composition (Wr 111, 112, 113) ......................................................... 9
General Zoology (Z 201, 202, 203) ................................................................. 9
General Chemistry (Ch 204, 205, 206) ......................................................... 15
College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103) .......... 16
Physical Education (PE 100 and 200 courses) .............................................. 3

Second Year

First Sequence in social science (history, economics, anthropology) .......... 9
First sequence in humanities (literature) ......................................................... 9
Quantitative Analysis (Ch 312) .......................................................... 4
Organic Chemistry (Ch 334, 335) ................................................................. 8
General Physics (Ph 201, 202, 203) ................................................................. 12
Physical Education (PE 100 and 200 courses) .............................................. 3

Third Year

Fundamentals of Speech (Sp 111) ................................................................. 3
Second sequence in social science (psychology, sociology) ......................... 9
Second sequence in humanities (literature, foreign language) .......................... 9-12
Comparative Vertebrate Anatomy (Z 324, 325) ............................................. 8
Comparative Vertebrate Embryology (Z 326) .................................................... 4
Electives ........................................................................................................... 18-21

Third Year Total: 54

PREMEDICINE

Oregon College of Education offers a premedical curriculum which meets the general criterion of a program planned to include not only adequate scientific preparation but also the type of broad education which leads to an understanding of the world in which we live. Admission to medical school is based upon two types of qualifications: the applicant must present evidence of good character, proper attitude, and sincere interest in the study of medicine; he must also have demonstrated sufficient intellectual ability to undertake satisfactorily the study of medicine, as determined by his premedical scholastic record and scores on the Medical College Admissions Test. Admission is on a competitive basis.

Students must have completed satisfactorily not less than three years of college work (at least 144 hours) before entering medical school and must qualify for the bachelor's degree before being eligible to begin the third year of professional preparation. The following three-year premedical curriculum leads to a bachelor of science or bachelor of arts degree in general studies with a major in science-mathematics and includes all requirements other than those which can be met by transfer of credit from medical school. (See General Studies, page 61.)

First Year

English Composition (Wr 111, 112, 113) ......................................................... 9
General Zoology (Z 201, 202, 203) ................................................................. 9
College Algebra, Trigonometry, Analytic Geom. (Mth 101, 102, 103) .......... 15
Physical Education (PE 100 and 200 courses) .............................................. 3

First Year Total: 48

1 Courses required by the Council on Dental Education of the American Dental Association. The science courses indicated by course number and the suggestions for sequences are elective courses recommended by the council.

2 If literature is selected instead of foreign language, the extra credits indicated should be used to complete an additional course in the humanities minor.
### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>First sequence in humanities (literature)</td>
<td>9</td>
</tr>
<tr>
<td>Quantitative Analysis (Ch 312)</td>
<td>4</td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335)</td>
<td>8</td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total for Second Year: **45**

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Second sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>Second sequence in humanities (literature, foreign language)</td>
<td>9−12</td>
</tr>
<tr>
<td>Comparative Vertebrate Anatomy (Z 324, 325)</td>
<td>8</td>
</tr>
<tr>
<td>Comparative Vertebrate Embryology (Z 326)</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>17−21</td>
</tr>
</tbody>
</table>

Total for Third Year: **54**

### PRENURSING

The School of Nursing of the University of Oregon offers a four-year curriculum which leads to the bachelor of science degree and prepares for state examinations for nurse registration. The student may take one year of prenursing study at Oregon College of Education. The nursing curriculum is completed at the University of Oregon School of Nursing in three years and one summer session.

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>Sequence in social science</td>
<td>9</td>
</tr>
<tr>
<td>World Literature (Eng 107, 108, 109)</td>
<td>9</td>
</tr>
<tr>
<td>Elementary or General Chemistry (Ch 104, 105, 106)</td>
<td>12</td>
</tr>
<tr>
<td>Nutrition (HE 323)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total for First Year: **48**

### PREPHARMACY

Oregon College of Education offers the prepharmacy curriculum which prepares students for admission to Oregon State University School of Pharmacy. The pharmacy curriculum at Oregon State is four years of professional study during which time courses in the humanities and social sciences are also taken. A total of five academic years with 240 credit hours is required for the bachelor's degree.

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>Fundamentals of Speech (Sp 111)</td>
<td>3</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Intermediate Algebra, College Algebra (Mth 100, 101)</td>
<td>8</td>
</tr>
<tr>
<td>Personal Hygiene (HE 151)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

Total for First Year: **51**

1 Courses required for admission to the professional program.
2 If literature is selected instead of foreign language, the extra credits indicated should be used to complete an additional course in the humanities minor.
PREPROFESSIONAL CURRICULA

PREVETERINARY

Oregon College of Education offers a two-year preparatory curriculum for students planning to enter a professional school of veterinary medicine. This curriculum is designed to meet the minimum requirements necessary to be considered for admission into the schools of veterinary medicine at Colorado State University, Ft. Collins; Washington State University, Pullman; or the University of California, Davis. Since specific admission requirements vary, the student should become informed about these schools early in his preprofessional study. A limited number of Oregon residents may attend without paying out-of-state fees under the compact which the state of Oregon has through the Western Interstate Commission for Higher Education.

Although the minimum requirement for admission is two years, it is highly desirable that the preveterinary student plan an additional year of study at OCE in order to qualify for the bachelor of science or bachelor of arts degree as well as the professional degree. A three-year preprofessional program of not less than 144 term hours can be planned to include all the requirements for the general studies degree except for upper-division science courses transferable from the professional school to complete the major in science-mathematics and the total number of hours required for graduation. (See General Studies, page 61, and similar suggested curricula under Predental and Premedicine in this section of the catalog.)

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (Wr 111, 112, 113)</td>
<td>9</td>
</tr>
<tr>
<td>General Zoology (Z 201, 202, 203)</td>
<td>9</td>
</tr>
<tr>
<td>General Chemistry (Ch 204, 205, 206)</td>
<td>15</td>
</tr>
<tr>
<td>Mathematics Sequence</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence in humanities or social science</td>
<td>9</td>
</tr>
<tr>
<td>Three biology courses selected from:</td>
<td>12</td>
</tr>
<tr>
<td>Comparative Vertebrate Anatomy &amp; Embryology (Z 324, 325, 326),</td>
<td></td>
</tr>
<tr>
<td>Botany (Bot 201, 202, 203), or</td>
<td></td>
</tr>
<tr>
<td>Bacteriology (Bi 221)</td>
<td></td>
</tr>
<tr>
<td>Quantitative Analysis (Ch 312)</td>
<td>4</td>
</tr>
<tr>
<td>Organic Chemistry (Ch 334, 335)</td>
<td>8</td>
</tr>
<tr>
<td>General Physics (Ph 201, 202, 203)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education (PE 100 and 200 courses)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

Medical Technology

Oregon College of Education offers a four-year curriculum in medical technology. The program consists of three years of work on the campus at Oregon College of Education and one year of prescribed work at the University of Oregon Medical School in Portland. Upon satisfactory completion of the four-year program the student receives the Bachelor of Science degree from Oregon College of Education and a certificate from the American Society of Medical Technologists. In addition to the general college requirements the student must complete the following courses in science and mathematics at Oregon College of Education before enrolling for the specialized fourth year at the Medical School.
General Zoology (Z201, 202, 203) .................................................. 9
General Chemistry (Ch 104, 105, 106) ................................. 12
Quantitative Analysis (Ch 312) ........................................... 4
Organic Chemistry (Ch 334, 335) ......................................... 8
Human Anatomy and Physiology (Z 334, 335) .................. 6
Genetics (Bi 341) .............................................................. 8
Mathematics (Mth 101 and 102) or Mth 194 ................. 4-8
General Physics (Ph 201, 202, 203) ................................... 12
Bacteriology (Bi 221, 222) .................................................. 7

For an outline of the fourth year program, see the University of Oregon Medical School catalog or your OCE adviser.

Summer Session, 1965

Oregon College of Education has been authorized by the state board of higher education to offer two summer sessions in 1965. The regular summer session consists of eight weeks beginning on Monday, June 21, and closing on Friday, August 13. This session is followed by an intersession of three weeks opening on August 16 and closing on September 3. A variety of workshops of varying lengths occur during this eleven week period for which special tuition fees are charged.

Students who carry a full load (8 quarter hours or more) in the regular session may carry six quarter hours in the intersession without paying the additional tuition fee charged to new enrollees for the three week session. By combining 12 quarter hours of work in the regular session with 6 quarter hours in the intersession a student can complete a full term's work.

Admission Requirements. Admission to either of the summer sessions is granted to persons of sufficient maturity and academic background to do college work. Students who wish to become candidates for graduation from Oregon College of Education, however, must eventually satisfy regular entrance requirements. Those wishing to work toward graduation should file with the registrar complete official transcripts covering all school work above the eighth grade.

Student Load. Thirteen term hours of work will be considered a maximum student load in the regular eight-week session. Those enrolling in the intersession may earn an additional 6 quarter hours.

Expenses. Detailed information regarding tuition, fees, board and room, and other expenses will be available in the summer session catalog.

Regular Session, June 21-August 13

Courses offered during the regular summer session include undergraduate and graduate work for students working toward the bachelor's or master's degrees and refresher courses for teachers in service who wish to take advantage of new developments in their fields. The courses to be offered will be announced in the summer session catalog to be available in March, 1965. They will be chosen from the courses listed in this catalog, supplemented by special courses designed to meet the needs of experienced teachers and administrators.

Admission to Elementary Student Teaching. Since enrollment in student teaching must be limited, application should be made not later than May 1, 1965. To be eligible for student teaching in the summer laboratory school, a student must have met one or more of the following conditions:

1. Earned a baccalaureate degree from a college or university with 12 quarter hours cataloged as Education.
2. Attained senior standing and completed at least one year of teaching experience.
3. Received credit in student teaching at the elementary or secondary level from an accredited college or university and attained senior standing at OCE.

Additional requirements include a grade average of C or better, evidence of good health, speech proficiency, and desirable character and personal attributes.

**Intersession, August 16-September 3**

The intersession is planned especially for undergraduate students and experienced teachers working for bachelor's degrees. It includes lower division work in the humanities, social science, and science mathematics. During the intersession students may enroll for not to exceed 6 quarter hours in the fields listed above.

No campus dormitory or food service facilities are available during the intersession but college assistance is given to students looking for housing in the community.

**Workshops**

A variety of workshops is offered during the eleven weeks of the summer sessions planned primarily for experienced teachers. The summer catalog will give full details of all such offerings.
Graduate Study

Oregon College of Education offers study beyond the bachelor's degree for both elementary and secondary levels of specialization. Special programs are offered to meet the provisions of the State Department of Education requirements for the appropriate teaching level and the teaching and administrative service areas requiring a planned fifth-year program. Cooperative programs with other institutions in the Oregon State System of Higher Education provide the opportunity for those showing superior potential to develop programs leading toward a sixth-year and a standard norm at an approved institution.

Planned Graduate study programs of 45 hours beyond the bachelor's degree consist of: the Master of Science or Master of Arts degree; the Master of Arts in Teaching degree; a planned fifth-year non-degree program in an area of interdisciplinary study; a fifth-year non-degree program of additional work in a major field, or in a second field; and a program to meet educational specialist certificates as a part of any of the above degree or non-degree patterns.

Objectives of the Graduate Study Programs

The specific objectives in these programs are:

1. To continue the professional preparation of teachers by expanding and intensifying their knowledge and understanding of students, of subject matter, of school problems, and of effective teaching procedures.
2. To provide opportunities for breadth of educational and cultural experiences designed to produce professional teachers who are likewise well-educated citizens.
3. To provide an opportunity to combine some undergraduate professional courses in education with those in the master's degree program as a means of qualifying either for certification or the master's degree.
4. To offer opportunity for specialization in professional preparation in several areas at the graduate master's degree level.
5. To exert leadership in research in the teaching-learning process through the work of the Teaching Research Division of the Oregon State System of Higher Education located on the campus.

Areas of Preparation

Oregon College of Education attempts to meet the third and fourth objectives stated above by offering non-degree and graduate degree programs designed to meet certification requirements of the State Department of Education, and to contribute to the leadership potential of Oregon education. Curricular programs at the non-degree and graduate degree levels, prepare teachers in the following areas:

Non-Degree Programs

The Non-Degree Programs are specifically designed to capitalize on the individual strengths and needs of students. The programs must be carefully planned in advance with an advisor in order that they not only meet student needs, but the requirement of a planned fifth-year for certification requirements.

Completion of 45 quarter hours of work distributed in one of the following patterns:
Elementary:
   a) An interdisciplinary minor consisting of 9-12 additional hours in the 
      student's undergraduate minor plus 27 hours from 3 of the 7 fields and 6-9 
      hours of education, or 
   b) 30-36 hours in a second minor field of concentration and 9-15 hours of 
      electives in education, or 
   c) completion of the requirements for an educational specialty certificate. 

Junior High:
   a) A minimum of 30 hours divided between the student's two teaching mi-
      nors and an additional 9 hours in education, or 
   b) Completion of the requirements for an educational specialty certificate.

Senior High:
   a) forty-five hours of additional work distributed between the student's 
      major field and electives, or 
   b) forty-five hours of additional work to include a second teaching minor. 
   c) Completion of the requirements for an educational specialty certificate.

Master's Degree Programs

The Graduate Degree Programs are administered by the Committee on 
Graduate Studies. Specific admission and retention standards are outlined in the 
section of the catalog devoted to Graduate Degree Programs. 
   a) Completion of the Master of Science Degree, Elementary or Secondary
   b) Completion of the Master of Arts in Teaching Degree, Elementary or 
      Secondary

Areas of Specialization:
   Childhood Education (Ages 4-7) 
   General Elementary Education 
      Basic and Standard Certification 
   Secondary Education 
      Basic and Standard Certification 
      Basic and Standard Certification in selected fields 
   Educational Specialists 
      Extreme Learning Problems 
      Mental Retardation 
      Speech Correction 
      Teaching the Deaf 
   Programs in Administration and Supervision 
      Educational Administration 
      Educational Media Specialists 

Non-Degree Programs

Non-Degree fifth-year programs are administered by the Committee on 
Teacher Education. Permission to take course work beyond the bachelor's degree 
does not constitute acceptance in the graduate programs of the institution, al-
though graduate course work may be incorporated in the specifically planned and 
approved program. Students who enroll in these non-degree programs do so with 
the understanding that the institution is under no implied obligation to apply 
credit so earned to a graduate degree program. Application for transfer to a

1 See detailed program on pages 84-87.  
2 See detailed program on page 91.  
3 See detailed program on pages 82-91.  
4 See detailed program on page 89.
graduate degree program must be approved by the Committee on Graduate Study, and no implied obligation is made to accept any of the work as applicable to either the Master of Science or Master of Arts in Teaching graduate degree programs.

Students register in course work subject to the instructor’s permission. Whether the student is adequately prepared to enroll in a particular course is determined by the head of the department and the instructor in charge. Students whose preparation prior to applying for a specific course is considered as inadequate may be required to complete additional work of a preparatory nature.

Any student within 12 hours of completing the bachelor’s degree or doing a teaching internship during his senior year, may enroll in approved courses to be reserved for application toward his fifth-year non-degree program. Due to the regulation that this work must be a planned fifth-year, students should not enroll in such courses until they have consulted with an advisor assigned by the Coordinator of Fifth-Year Programs.

Students who wish to develop planned fifth-year non-degree programs should conform to the rules and regulations which follow:

Declaration of Intent. Before program planning and the assignment of an advisor may be undertaken, the student must file a “Declaration of Intent” form with the Coordinator of Fifth-Year Programs. The form may be secured in the office of the registrar.

Planned Program. The State Department of Education certification regulations relating to requirements for a Standard Certificate state in part:

“A Standard Teaching Certificate valid for a period of five years shall be issued to an otherwise qualified applicant who:

1. Has completed a five-year standard teacher education program, the fifth year of which is a planned program culminating either with the master’s degree or with the completion of 45 quarter hours of upper-division and graduate study. . . . .

4. . . . . Has established one of the general Standard five-year teaching norms established by the State Board of Education for elementary, junior high school or senior high school teachers.

5. Is recommended by the standard teacher education institution in which the Standard teacher education program was completed. . . .”

Before any work can be transmitted with institutional recommendation to the State Department of Education for certification purposes, a planned and approved program must be on file with the Coordinator of Fifth-Year programs. Failure to comply with this requirement may result in the loss of work taken prior to the development of such a program.

Students interested in these programs should contact the Registrar’s office, or Coordinator of fifth-year programs for details on admission, enrollment, transfer credits, etc.

Curricular Programs

Elementary

A planned fifth year program of 45 quarter hours beyond the baccalaureate degree consisting of one of the following alternatives:

a) An interdisciplinary minor consisting of 9-12 additional hours in the student’s undergraduate minor plus 27 hours from 3 of the 7 fields and 6-9 hours of education, or

b) 30-36 hours in a second minor field of concentration and 9-15 hours of electives in education, or

1 See Graduate Degree Program, pages 82-91.
c) Completion of the requirements for an educational specialty certificate

Professional courses which may be included in the 5th year program to meet the Standard General Norm for elementary teachers:

- Philosophy and/or History of Education
- Elementary teaching methods in addition to those required for the basic norm
- Adolescent Psychology
- Any two of the following:
  - Curriculum Construction
  - Evaluation of Learning
  - Guidance and Counseling
  - Foundations of Education
  - Education of the Exceptional Child
  - Educational teaching media
- Courses leading to the educational specialist certificate

**Junior High School**

A planned fifth year program of 45 quarter hours beyond the baccalaureate degree consisting of one of the following alternatives:

a) A minimum of 30 quarter hours divided between the student’s two teaching minors¹ and an additional 9 quarter hours in education, or

b) Completion of the requirements for an educational specialty certificate.

Professional courses which may be included in the 5th year program to meet the Standard General Norm for Junior High School Teachers:

- Credits to complete total of 45 quarter hours in teacher preparation required
- Guidance and Counseling
- Junior High School Curriculum
- Diagnostic and Remedial Techniques in the Basic Skills

The student may elect courses leading to the educational specialty certificate

**Senior High School**

A planned fifth year program of 45 quarter hours beyond the baccalaureate degree consisting of one of the following alternatives:

a) Thirty-six quarter hours of additional work in the student’s major field¹ or electives, and an additional 6-9 quarter hours in education, or

b) Thirty-six quarter hours of additional work to include a second basic subject matter norm,¹ and an additional 6-9 quarter hours in education, or

c) Completion of the requirements for an educational specialty certificate.

Professional courses which may be included in the 5th year program to meet the Standard General Norm for Senior High School Teachers.

- Credits to complete total of 36 quarter hours in teacher preparation required.
- Philosophy and/or History of Education

One of the following areas may be completed:

- Curriculum Construction
- Guidance and Counseling
- Teaching of Reading
- Evaluation of Learning
- Foundations of Education
- Education of the Exceptional Child
- Educational Teaching Media

¹ May include courses needed for completion of fifth-year subject matter requirements.
The student may elect courses leading to the educational specialty certificate in which case his fifth year would usually require more than 45 hours.

**GRADUATE DEGREE PROGRAMS**

Oregon College of Education offers study beyond the bachelor’s degree for both elementary and secondary teachers which includes work leading to the degree of master of science in education or master of arts in teaching. The master of science degree will appeal chiefly to elementary teachers wishing to develop further competency in the fields of education and psychology or to teachers at either level who plan to enter such fields as administration, supervision, or special education.

The master of arts in teaching degree is especially appropriate for teachers planning careers as classroom teachers and who wish to develop depth in their area of subject matter specialization. In general, this degree will prove attractive to secondary teachers.

The curriculum for secondary teachers in either program permits students to concentrate their work in one area selected from humanities, social science, (options in history or geography), or science-mathematics, (options in biological science, physical science, mathematics, or general science). Curricula are also available in teaching the deaf, and areas of special education.

**Cooperative Evening Program**

Through a cooperative arrangement, Oregon College of Education and the Division of Continuing Education have developed offerings of OCE courses for an evening program. The extent of the offerings will be determined by the enrollment of interested students. It is the intent of both agencies to offer patterns of required and elective courses, and other requested offerings, on a regularly scheduled program to facilitate the planning of course requirements and inservice preparation. Both on-campus courses, in which students may register on the regularly scheduled registration days each term or during the first night session, and Division of Continuing Education courses, either on-campus or in local community centers in which students may register during the first night session, are available. For information on courses, or eligibility for enrollment, contact the Registrar, Oregon College of Education.

In an effort to provide a more comprehensive program, and to make available more adequate educational facilities—library, laboratories, instructional aids, including food services—many upper division and graduate offerings will be transitioned to the campus from local continuation centers over the next few years. Additional offerings will be made upon request. These additional offerings may be either specific courses or requested in-service patterns which may serve a specific school or district need. In addition to the patterns developed, courses from other colleges and universities within the State System of Higher Education will be offered as evening classes. If a school, school district, or group of individuals have a need for a class, contact the Registrar, Oregon College of Education.

Through such patterns of courses, students may plan completion of curricular programs in a sequential pattern in a minimum of three quarters of enrollment during the regular school year. Certain specific offerings may be offered only in the summer session. Programs may be planned by consulting an advisor who will be assigned by the Registrar, or the Secretary to the Committee on Graduate Study.
General Regulations

Permission to take graduate courses does not constitute admission to candidacy for the Master's degree. Hence, two classes of students carrying work beyond the bachelor's degree are recognized: (1) those who wish to continue their education but do not wish to earn the degree, and (2) those who wish to become candidates for one of the Master's degrees. Students of the first group register, subject to the instructor's permission, for the courses they desire, with the understanding that the institution is under no implied obligation to apply credit so earned toward a degree. Whether the student is adequately prepared to enroll for a particular course is determined by the head of the department and the instructor in charge.

Students whose preparation prior to admission to candidacy is considered as inadequate may be required to complete additional work at the undergraduate level or of a preparatory nature.

Any student within 12 term hours of completing the bachelor's degree or doing a teaching internship during his senior year, may enroll in approved courses to be reserved for graduate credit.

Students who wish to become candidates for the Master's degree follow programs organized in conformity with the rules and regulations which follow.

Declaration of Intent. Before formal planning of a master's degree program can progress beyond the preliminary stage, the student must file a "Declaration of Intent" form with the secretary of the committee on graduate study. The form may be secured from either the office of the registrar or the secretary.

Admission to Candidacy for the Degrees. A graduate of any accredited college or university may apply for admission to candidacy by filing a written application with the secretary of the committee on graduate study. This application should be submitted as soon as the candidate has decided to work toward the master's degree—not later than the date of completion of the first 12 hours of graduate course work. In order to qualify the students must have completed:

1. The requisite preparation to hold (a) an Oregon Basic Teaching Certificate, or the equivalent for out-of-state students, or (b) as a temporary minimum requisite preparation to hold an Oregon Restricted Certificate. In no case will the degree be granted until requirements for an Oregon Basic Teaching Certificate (or, for out-of-state students the satisfactory completion of a program of preparation comparable to that required for an Oregon Basic Teaching Certificate) have been met, except in certain fields of specialization, for whom the requirement is Certificate A of the Conference of Executives of American Schools for the Deaf, or for whom the requirement is an Oregon Basic Teaching Certificate and the meeting of requirements in educational specialties.

2. An undergraduate program in the selected teaching area comparable to the program in effect at Oregon College of Education or, one approved as adequate by the Dean of Instruction, secretary of the committee on graduate study and the appropriate department chairman or area-adviser. (A student in the process of clearing any deficiencies may be approved for admission if all other requirements have been met.)

3. A preliminary qualifying examination.

4. Twelve term hours of graduate study with a minimum grade-point average of 3.00 (B) on the Oregon College of Education campus or in the Portland summer session. Nine of these 12 term hours must have been taken concurrently. (A student when applying for admission to candi-

1 See non-degree program section, pages 77-81.
dacy must have a GPA on all graduate work earned to that date of 3.00 (B) or better. See minimum GPA Requirement.

5. The filing of official, original transcripts from all institutions where undergraduate and graduate credit has been earned.

6. A personal conference with appropriate members of the graduate faculty when so directed.

Failure to comply with these requirements may result in delay in completion of the degree program.

Transfer of Graduate Credit. Upon appropriate action by the committee on graduate study graduate credit may be applied from (1) accredited institutions, (2) Portland summer session, or (3) continuation classes.

A total of not to exceed 21 term hours of approved graduate credit may be transferred. An additional 12 hours as indicated under “minimum” residence requirement, may also be applied from the Portland Summer Session.

Regardless of the number of graduate credits transferred, it is understood that the student will complete the courses specified as required in the program. No graduate credit will be given for courses taken through correspondence study.

Graduates of Unaccredited Institutions. Such applicants may be admitted to graduate courses as special students. After at least 12 concurrent hours of planned graduate study completed in one term at Oregon College of Education with grades of B or better, such students may, if meeting the other requirements for admission, be considered for candidacy and may petition for credit in courses completed as special students.

Minimum GPA Requirement. In order to be admitted to, and/or retained in, the graduate program, a candidate must earn and maintain at all times a grade-point average of 3.00 (B) in all graduate work completed. A student accumulating 9 quarter hours of C grades, or lower, in graduate courses will be dropped as a candidate for the master's degree. A grade of D is not applicable in the program and requires special attention by the committee on graduate study to determine the candidate's future status.

Minimum Residence Requirement. A minimum of 24 term hours of graduate credit must be earned in residence on the campus, with at least 9 being taken concurrently. Except, 12 of the 24 term hours required in residence may be completed in the Portland summer session. However, when such permission has been granted, the candidate must still complete 9 concurrent hours on the OCE campus.

Maximum Load. The maximum load for graduate students is 16 term hours in a regular term and 13 term hours in an eight-week summer session of graduate courses or any combination of graduate and undergraduate courses unless a petition to carry an overload has been approved by the Dean of Instruction and secretary of the committee on graduate study during the week of registration.

Tuition and Fees. Graduate students will pay tuition and fees as set forth in the current catalog for resident undergraduates. A fee of not to exceed $15.00 may be charged for preliminary qualifying examination.

Time Limit. Only those courses and requirements completed within a period of seven years prior to the actual completion of the program will apply. This includes all residence credit, all applicable transfer credit, and required comprehensive examination. If a thesis is involved it must be accepted within this seven-year limit. However, credit earned between seven and ten years prior to the completion of the program may, in certain cases, be approved by action of the committee on graduate study, upon petition.
Teaching Experience. One year of successful legal teaching on a valid state certificate or, in certain cases, comparable experience approved by the committee on graduate study, is required before the degree may be granted.

Thesis. The writing of a thesis is not required for the master's degree, but it is recommended for the students planning to take work toward the doctorate. One bound copy of the thesis shall be presented to the library of the college and one to the secretary of the committee on graduate study. The thesis problem and title must be approved by the committee on graduate study prior to commencement of the study.

Final Comprehensive Examination. Each student must satisfactorily complete a final comprehensive examination covering his program. This examination may be written or oral, or both, as determined by the committee on graduate study, but cannot be taken until the student has completed all course work or is actually enrolled in the final course or courses. The examination is offered twice during the year, once in April and once in July. Each candidate must have on file with the secretary of the committee on graduate study an Application for the Master's Degree, which will be considered as the application to take the final comprehensive written examination. This form, which is obtainable in the registrar's office, must be filed prior to April 1 for the April examination and prior to July 1 for the July examination. (See below.)

A student choosing to write a thesis may be required to complete satisfactorily a written examination, or an oral examination over his research problem, or both.

Application for the Master's Degree. An application must be filed by each candidate with the secretary of the committee on graduate study prior to the dates listed above. In addition, when so requested, the candidate will be required to provide evidence that he holds, or is eligible to hold, the certificate required by the curriculum he is completing. (See No. 1. under Admission to Candidacy for the Degree.) This form will also serve as the candidate's application to take the final comprehensive examination.

Commencement. The master's degree will be officially conferred at the subsequent June commencement on those students who satisfactorily complete all degree requirements during a summer, fall, or winter term, or during a spring term when enrolled for final courses on the Oregon College of Education campus.

When a candidate successfully completes all requirements for the master's degree but final courses are taken during the spring term other than on the Oregon College of Education campus, the degree will not be officially conferred until the June commencement of the subsequent year. However, a certificate of successful completion of the master's degree program will be sent to such individuals.

MASTER OF SCIENCE IN EDUCATION

CURRICULA

Elementary

The graduate program for the degree of master of science in education for elementary teachers consists of two curricula, (1) general elementary education, and (2) childhood education (ages 4-7).

General Elementary Education. This curriculum consists of a required professional education core of 18 term hours, a required general education core of 15 term hours, and elective courses to total the 45 term hours required for the master's degree. Courses in the 400 numbers with a (G) or (g) affixed may be taken by either undergraduate or graduate students. If a student takes a 400
course as graduate work, it is his responsibility to verify the graduate standing of that particular course and to ascertain that his registration carries the proper designation of G or 0 as the case may be.

The **professional education core** consists of 18 term hours as follows:

- Ed 566 Curriculum Construction ........................................... 3
- Ed 512 Research Procedures in Education .................................... 3
- Ed 513 Evaluation of Classroom Instruction .................................. 3
- Ed 514 Foundations of Education ........................................... 3
- Ed 518 Public and Professional Relations ..................................... 3
- Psy 460G Developmental Psychology: Infancy and Childhood or
  - Psy 461G Developmental Psychology: Adolescence and Maturity ....... 3
- Psy 520 Psychology of Learning ........................................... 18

The **general education core** consists of 15 term hours as follows:

Two courses selected from the following to represent two of the three general education areas:

- SSc 511 Contemporary Developments in the Social Sciences ............. 3
- Hum 511 Contemporary Developments in the Humanities .................. 3
- Sc 511 Contemporary Developments in the Sciences and Mathematics .... 3

and a 9-term-hour block of approved electives in the third area .......... 9

6 of 9 .......................... 9

15

Note: If humanities is selected for the 9-hour block, Hum 511 will not apply; if science-mathematics is selected, Sc 511 will not apply; if social science is selected, SSc 511 will not apply. The contemporary developments courses are required in the two areas not selected for the block.

**Electives:** The remaining 12 term hours shall be completed in approved electives in either professional or general education.

**Childhood Education (Ages 4-7).** This curriculum is designed to meet the needs of teachers in the elementary schools who wish to extend their professional competency through greater concentration in the area of childhood education (ages 4-7). The curriculum consists of a **basic professional education core** of 18 term hours similar to that required in the general elementary curriculum for graduate students; a **specialized core in childhood education** of 18 term hours; and a **general education core** of 9 term hours.

The **basic professional education core** consists of:

- Ed 512 Research Procedures in Education ..................................... 3
- Ed 513 Evaluation of Classroom Instruction ... or
  - Ed 518 Public and Professional Relations .................................. 3
- Ed 514 Foundations of Education ........................................... 3
- Psy 460G Developmental Psychology: Infancy and Childhood ............. 3

12

The **Specialized core in childhood education** consists of:

- Ed 451G Preprimary Education ........................................... 3
- Ed 452G Creative Arts in Childhood ....................................... 3
- Ed 519-520 Childhood Education ........................................... 12

18

The **general education core** consists of:

- SSc 511 Contemporary Developments in the Social Sciences ............. 3
- Hum 511 Contemporary Developments in the Humanities .................. 3
- Sc 511 Contemporary Developments in the Sciences and Mathematics .... 3

9

**Electives:**

Electives in education or psychology, or an approved pattern of courses .......... 6

Total ............................................................... 45
Secondary

The graduate program for the degree of master of science in education for secondary teachers consists of five different curricula based on the candidate’s selected teaching area. Each curriculum consists of a required professional education core of from 18 to 24 graduate term hours including 12 term hours of specified courses and from 6 to 12 term hours of electives; and a selected teaching area chosen from either social science, humanities, or science-mathematics (options in biological science, physical science, mathematics, or general science), and consisting of from 21 to 27 required and approved graduate term hours. A minimum of 45 graduate term hours is required for the degree. Courses in the 400 numbers with a (G) or (g) affixed may be taken by either undergraduate or graduate students. If a student takes a 400 course as graduate work, it is his responsibility to verify the graduate standing of that particular course and to ascertain that his registration carries the proper designation.

The professional education core common to all five curricula consists of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 512</td>
<td>Research Procedures in Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 514</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 516</td>
<td>Curriculum Construction</td>
<td>3</td>
</tr>
<tr>
<td>Psy 461(G)</td>
<td>Developmental Psychology: Adolescence and Maturity</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psy 520</td>
<td>Psychology of Learning</td>
<td>6-12</td>
</tr>
<tr>
<td>Education or psychology electives</td>
<td>18-24</td>
<td></td>
</tr>
</tbody>
</table>

The selected teaching area consists of a minimum of 21 graduate term hours in a single teaching area, to be selected from either social science, humanities, biological science, physical science, or general science. The actual courses required for each student will be selected under guidance of the chairman of the department involved and will be distributed throughout the various subjects within the teaching area.

The social science teaching area consists of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSc 492g</td>
<td>Ideologies of the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>SSc 493g</td>
<td>International Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SSc 494g</td>
<td>American Foreign Relations</td>
<td>3</td>
</tr>
<tr>
<td>SSc 512</td>
<td>Contemporary Developments in the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9-15</td>
<td></td>
</tr>
<tr>
<td>Total in social science</td>
<td>21-27</td>
<td></td>
</tr>
</tbody>
</table>

The humanities teaching area consists of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl 457g</td>
<td>Forms and Meaning of Poetry</td>
<td>3</td>
</tr>
<tr>
<td>Engl 458g</td>
<td>Forms and Meaning of Prose</td>
<td>3</td>
</tr>
<tr>
<td>Engl 459g</td>
<td>FORMS AND MEANING OF DRAMA</td>
<td>3</td>
</tr>
<tr>
<td>Hum 512</td>
<td>Contemporary Developments in the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9-15</td>
<td></td>
</tr>
<tr>
<td>Total in humanities</td>
<td>21-27</td>
<td></td>
</tr>
</tbody>
</table>

The science-mathematics (biological science) teaching area consists of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi 446g</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Bi 453g</td>
<td>Ecology</td>
<td>3</td>
</tr>
<tr>
<td>Bi 458g</td>
<td>Field Biology</td>
<td>3</td>
</tr>
<tr>
<td>Bi 460g</td>
<td>Preparation of Biological Materials</td>
<td>4</td>
</tr>
<tr>
<td>GS 411g</td>
<td>History of Science</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>5-12</td>
<td></td>
</tr>
<tr>
<td>Total in biological science</td>
<td>21-27</td>
<td></td>
</tr>
</tbody>
</table>

The science-mathematics (physical science) teaching area consists of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph 421, 422g</td>
<td>Modern Physics</td>
<td>6</td>
</tr>
<tr>
<td>Ch 417g</td>
<td>Advanced Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 433g</td>
<td>Advanced Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GS 411g</td>
<td>History of Science</td>
<td>3</td>
</tr>
<tr>
<td>Mth 410g</td>
<td>Foundations of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Mth 415g</td>
<td>Modern Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>as needed</td>
<td></td>
</tr>
<tr>
<td>Total in physical science</td>
<td>21-27</td>
<td></td>
</tr>
</tbody>
</table>

1 Should be taken as early in the program as possible.
2 If student has had Ph 311, 312, 313, Introduction to Modern Physics, or the equivalent, these hours should be used for electives.
The science-mathematics (general science) teaching area consists of: 1
Bi 446g Evolution ............................................. 3
Bi 460g Preparation of Biological Materials ................. 4
G 450g Rocks and Minerals ................................... 3
G 453g Geology of the Pacific Northwest .................... 3
GS 411g History of Science .................................. 3
GS 424g Astronomy ........................................... 3
Mathematics—minimum of one approved course ................ 3
Approved electives as needed ................................ 3

Total in general science ....................................... 21–27

The science-mathematics (mathematics) teaching area consists of: 2
Mth 410g Foundations of Mathematics ......................... 3
Mth 412g Higher Algebra .................................... 3
Mth 413g Modern Geometry ................................... 3
Mth 494g, 495g, 496g Analysis ............................... 9
Sc-Mth 507. Seminar in Mathematics ......................... 3
Sc-Mth 506. Special Individual Studies in Mathematics .... 3

Total in mathematics ........................................... 21–27

TOTAL HOURS REQUIRED FOR ENTIRE PROGRAM:
1. Professional education core ................................ 18–24
2. Core in selected teaching area .............................. 21–27
3. Approved electives to make a total of .................... 45

Education Specialists

These curricula are designed to enable teachers at either the elementary or secondary level to meet the requirements of the State Department of Education for Educational Specialists. All personnel in these areas are required to hold the Basic Certificate.

Candidates for admission to the program must meet all the requirements of admission to candidacy for the master’s degree at OCE. (See under Admission to Candidacy for the Degree.) Before the degree can be granted, the candidate must present evidence that he holds or is eligible to hold an Oregon Basic Teaching Certificate.

Students who have had little or no undergraduate work in the field of special education will normally need to complete additional hours in order to clear certain undergraduate deficiencies.

Each curriculum requires completion of a basic professional education core consisting of 9 term hours, and a specialized core in special education of 27 term hours, and additional coursework as indicated.

EXTREME LEARNING PROBLEMS CURRICULUM

The fifth year program leading to the Master of Science degree with an area of concentration in Extreme Learning Problems.

Professional Education Core .................................. 9
Research Procedures in Education (Ed 512) .................. 3
Foundations of Education (Ed 514) .......................... 3
Developmental Psychology: Infancy and Childhood G (Psy 460) 3

General Education Core .................................... 9

Three quarter hours in each of the three Contemporary Developments courses required of teachers in the elementary program or a substitution approved by the chairman of the department involved.

1 This curriculum has been designed primarily for those candidates who have completed the undergraduate curriculum for teaching science in the junior high school.
2 The secretary of the graduate committee will provide detailed curriculum outlines upon request.
Specialized Core in Special Education .......................... 27

**Leading to the Standard Norm**
The Mentally Retarded Child G (Ed 464) ......................... 3
Individual Intelligence Testing (Psy 525) ..................... 3
Speech Pathology g (Sp 481) .................................. 3
Audiology g (Sp 488) ......................................... 3
Practicum: Remedial Reading (Ed 509) ......................... 3
Counseling Techniques G ....................................... 3
Administration of Special Education G (Ed 471) .............. 3
Seminar: Secondary Reading Problems (Ed 507) .............. 3
Practicum: Basic Skills (Ed 509) .............................. 3

**Leading to the Basic Norm**
Education of the Exceptional Child G (Ed 470) .................. 3
Diagnostic and Remedial Techniques in the Basic Skills G (Ed 465) 3
The Maladjusted Child G (Ed 468) ............................. 3
Psychology of Reading Instruction G (Ed 480) .................. 3
Individual Intelligence Testing (Psy 525) ..................... 3
Diagnostic and Remedial Techniques in Reading G (Ed 468) 3
Practicum: Remedial Education (Ed 509) ...................... 9

SPEECH CORRECTION CURRICULUM
The fifth year program leading to the Master of Science degree with an area of Concentration in Speech Correction.

**Professional Education Core** .................................. 9
Research Procedures in Education (Ed 512) ..................... 3
Foundations of Education (Ed 514) ............................ 3
Developmental Psychology: Infancy and Childhood G (Psy 460) 3

**Specialized Core in Special Education** ......................... 24
Education of the Exceptional Child G (Ed 470) .................. 3
Individual Intelligence Testing (Psy 525) ..................... 3
Speech Pathology g (Sp 482, 483) ............................ 6
Seminar: Medical Aspects of Speech and Hearing (Ed 507) .... 4
Practicum: Speech Pathology (Ed 509) ....................... 4
Practicum: Audiology (Ed 509) ................................ 4

**Electives** ......................................................... 12

Total hours in M.S. Degree Program ............................ 45

TEACHING THE DEAF CURRICULUM
The fifth year program leading to the Master of Science Degree with an area of concentration in Teaching the Deaf.

Speech Science (Sp 371) ....................................... 3
Audiology g (Sp 488) ......................................... 3
Audiology g (Sp 498) ......................................... 3
Practicum: The Deaf (Ed 405-509) ............................ 9
Problems of the Deaf and Hard of Hearing G (Ed 417) ....... 3
Teaching Speech to the Deaf (Ed 539) ......................... 3
Teaching Language to the Deaf (Ed 540) ...................... 3
Teaching Elementary School Subjects to the Deaf (Ed 541) .... 3
Research Procedures (Ed 512) ................................ 3
Foundations of Education (Ed 514) ............................ 3
Developmental Psychology: Infancy and Childhood G (Psy 460) 3
or
Developmental Psychology: Adolescence and Maturity G (Psy 461) 3

Total hours ....................................................... 54

MENTAL RETARDATION CURRICULA
The fifth year program leading to the Master of Science degree with an area of concentration in Mental Retardation.

1. For those who have completed the 4-year program with a minor in the field.

**Professional Education Core** .................................. 9
Research Procedures in Education (Ed 512) ..................... 3
Foundations of Education (Ed 514) ............................ 3
Developmental Psychology: Infancy and Childhood G (Psy 460) 3

**General Education Core** ...................................... 9
Contemporary Developments in the Humanities (Hum 511) .... 3
Contemporary Developments in the Social Sciences (Soc 511) 3
Contemporary Developments in the Sciences and Mathematics (Sc 511) 3
Specialized Core in Special Education

Education of the Exceptional Child (G) (Ed 470) .................. 21
The Mentally Retarded Child (G) (Ed 464) .................. 3
Individual Intelligence Testing (Psy 525) .................. 3
Speech Pathology (Sp 481) .................. 3
Diagnostic and Remedial Techniques in the Basic Skills (G) (Ed 465) .................. 3
Measurement in Education (G) (Ed 424) .................. 3

Electives .......................... 6

Total .......................... 45

2. For those who do not hold the Education Specialty Certificate.

Professional Education Core

Research Procedures in Education (Ed 512) .................. 9
Foundations of Education (Ed 514) .................. 3
Developmental Psychology: Infancy and Childhood (G) (Psy 460) .................. 3

General Education Core

Contemporary Developments in the Humanities (Hum 511) .................. 9
Contemporary Developments in the Social Sciences (Ssc 511) .................. 3

Specialized Core in Special Education

The Mentally Retarded Child (G) (Ed 464) .................. 27
Curriculum for the Mentally Retarded (G) (Ed 489) .................. 3
Practicum: The Mentally Retarded (Ed 509) .................. 3
Seminar: Mental Retardation (Ed 507) .................. 3
General Intelligence Testing (G) (Ed 483) .................. 3
The Maladjusted Child (G) (Ed 463) .................. 3
Speech Pathology (Sp 481) .................. 3
Diagnostic and Remedial Techniques in the Basic Skills (G) (Ed 465) .................. 3
Education of the Exceptional Child (G) (Ed 470) .................. 3

Total .......................... 45

Programs in Administration and Supervision

EDUCATIONAL ADMINISTRATION

(A cooperative program with the University of Oregon, Eugene)

Oregon College of Education offers a planned program, not to exceed 24
quarter hours, which may be applied to a program in Educational Administra-
tion, offered cooperatively through the University of Oregon, and leading to the
administrator's certificate for the State of Oregon.

The Oregon Certification Regulations which become effective July 1, 1965
require administrative certificates of superintendents (city and county), assistant
superintendents, principals, vice-principals, and administrative directors. The
Oregon State Board of Education has ruled that an administrative certificate
valid for a period of five years shall be issued to an otherwise qualified applicant
who:

(1) Holds a valid Oregon Standard Teacher's Certificate or an Oregon
teacher's certificate based on a five-year program of teacher preparation.

(2) Verifies five years of successful teaching and administrative experi-
ence, at least two years of which shall have been successful experience
in some supervisory or administrative capacity.

(3) Verifies completion of 45 quarter hours of upper-division or graduate
study in school administration subsequent to the master's degree and
completed in a college or university approved by the State Board of
Education for the preparation of school administrators, this preparation
to include emphasis on specific areas of school administration or ad-
ministration or administrative problems.

(4) Is recommended by the approved college or university in which the ap-
licant completed his graduate program in preparation for school ad-
ministration as having the qualifications essential to a school adminis-
trator.
(5) Verifies completion of the specialized professional requirements as determined by the State Board of Education.

Admission to the Program
In order to be admitted to the program the student shall:

(1) Have completed a program of teacher education in a standard teacher education institution, and hold, or be eligible to hold, a valid Oregon teacher's certificate.

(2) Be eligible for admission to the program leading to the master's degree at Oregon College of Education, or have been accepted for admission to the educational administration program at the University of Oregon.

(3) Presents a planned program, worked out with an advisor, and approved by the Administration Committee of the University of Oregon.

The Work at Oregon College of Education
A program, not to exceed 24 quarter hours, may be developed with the following conditions understood:

(1) A maximum of 9 quarter hours, in a planned and approved program, may be taken at Oregon College of Education as a part of the master's degree program.

(2) A maximum of 15 quarter hours beyond the master's degree, in a planned and approved program, may be accepted by the University of Oregon from Oregon College of Education.

(3) The student is eligible for transfer and acceptance to the University of Oregon for completion of the required program.

(4) The student is eligible for recommendation by the University of Oregon Administration Committee for admission to the remainder of the program.¹

Program of Instruction
Nine (9) quarter hours of a planned program, approved by an advisor, in the master's degree program, and fifteen (15) quarter hours in a jointly approved program, for a total of twenty-four (24) quarter hours may be selected from the following areas, as indicated:

Seven (7) quarter hours of specialization courses to be selected from among the following:

- Elementary School Administration and Supervision (Ed 554) ........................................ 4
- School Finance (Ed 575) .................................................................................. 3

Six (6) to nine (9) quarter hours in curriculum and supervision selected from the following:

- Secondary School Curriculum (Ed 522) ......................................................... 3
- Elementary School Curriculum (Ed 553) ......................................................... 3
- Curriculum Construction (Ed 566) ................................................................. 3
- Curriculum Materials (Ed 567) ........................................................................ 3
- Junior High School Curriculum (Ed 571) ......................................................... 3

Three (3) quarter hours of courses in research methods selected from the following:

- Research Procedures in Education (Ed 512) ...................................................... 3
- Statistical Methods in Education and Psychology (Pey 515, 516) .................. 3–6

Specific exemptions, or additional work completed must be requested by the student, and is subject to approval by the University of Oregon Administration Committee.

¹ Three terms (a minimum of 30 quarter hours) are required in residence at the University of Oregon for completion of the two-year Educational Administration Program.
² Only with specific advanced approval as a part of a planned program.
EDUCATIONAL MEDIA SPECIALIST

An elective pattern of course work designed to prepare specialists in the fields of audio-visual aids, educational technology, instructional materials centers, curriculum and resource materials centers. These courses could be planned as a part of the elective sequences in the graduate degree or fifth-year non-degree patterns for elementary, junior high, or senior high school teachers or administrative service personnel.

Layout and Design A 424
Advertising Design A 425
Visual Techniques A 434 (G)
Special Individual Studies Ed 406-506
Seminar Ed 407-507
Practicum Ed 409-509
Methods and Research Materials Ed 410 (G)
Resource Materials Centers Ed 433 (G)
Preparation of Audio-Visual Aids Ed 434 (G)
Audio-Visual Aids Ed 435 (G)
Programmed Instruction Ed 463 (G)
Occupational and Educational Information Ed 486 (G)
Research Procedures in Education Ed 512
Evaluation of Classroom Instruction Ed 513
Audio-Visual Administration Ed 521
Secondary School Curriculum Ed 522
Philosophy of Education Ed 546
Elementary School Problems Ed 522
Elementary School Curriculum Ed 553
Curriculum Construction Ed 566
Curriculum Materials Ed 567
Junior High School Curriculum Ed 571
School Supervision Ed 574
Psychology of Learning Psy 520
Introduction to Cataloging and Classification Lib 386

MASTER OF ARTS IN TEACHING DEGREE

The Master of Arts in Teaching degree at Oregon College of Education is designed for those secondary teachers whose chief objective is the development of exceptional competence in classroom teaching in one of the subject fields taught in high school for which Oregon College of Education has been approved. Those planning to specialize in elementary teaching or other types of specialized educational service are encouraged to enter the Master of Science program.

Requirements for admission: The same as those for the Master of Science in Education.

Fields of Concentration (Majors)
   Humanities, Social Science, Science-Mathematics.

Requirements for completion of the degree:
1. 3.00 cumulative GPA in all courses applying to the graduate program.
2. One year of successful teaching experience.
3. Successful completion of the oral and written examinations.
4. Completion of 45 quarter hours of graduate work as follows:
   A. A minimum of 30 quarter hours in one of the broad areas of subject matter (called the graduate major).
   B. Six quarter hours of electives, only 3 hours of which may be in professional education.
   C. Nine quarter hours in graduate level professional education courses. Professional graduate courses selected during the fifth year must include at least two of the following course areas: Foundations of Education, Curriculum Construction, Advanced Educational Psychology, or Advanced Psychology of Adolescence.
5. Completion of the requirement for the general standard certificate for secondary teachers and for one of the subject matter norms in Oregon College of Education’s approved secondary teacher education program.

* Undergraduate credits may be counted toward meeting degree requirements only when approved by the graduate council or some other comparable institutional agency. Under no circumstances may the credit accepted exceed 12 hours.
Description of Courses

Art

Assistant Professors: Chambers (department chairman), Crozier, Culbertson, Kirk.
Instructor: Loffnow.

Lower-Division Courses

A 127. Art Appreciation. 3 hours.
   A course which explores the cultural and historic significance of graphic
   and plastic art products. Field trip, lecture, projected and display materials
   are used.

A 128. Art Appreciation II. 3 hours.
   Study of selected aspects of the contemporary arts, with emphasis on works
   of recent, individual artists.

A 221. Drawing Processes for Elementary. 2 hours.
   Basic information and creative studio experience with the tools and tech-
   niques of drawing and painting experience in the elementary schools.

A 222. Design Processes for Elementary. 2 hours.
   Basic information concerning the concepts of design and its application
   through studio experience in various materials appropriate to the elementary
   school program.

A 223. Graphic Processes. 2-4 hours.
   Basic information on printing by autographic means suitable for impression
   and reproduction. Studio experience in different media with stress on crea-
   tive use of materials as well as technical skill in the various print processes.
   The advanced course may be taken for an additional 2 hours credit.

A 224. Silk Screen Printing. 2-4 hours.
   Printing on various surfaces and materials by the major stencil processes
   used in serigraphy. The advanced course may be taken for an additional
   2 hours credit with applied design on fabric.

A 225. Watercolor. 2-4 hours.
   The exploration of the techniques of transparent watercolor painting utiliz-
   ing still life, landscape, and imaginative subjects. The course may be taken
   for an additional two hours credit.

A 226. Drawing. 2-4 hours.
   Basic information on the elements of drawing and representation as they
   are related to the needs of the student. Creative work is stressed, the student
   receiving experience in different media in the studio situation. The advanced
   course may be continued for an additional 2 hours credit.

A 228. Design. 2-4 hours.
   Information on the elements and principles of design; creative application,
   structural and decorative, through various media. The advanced course may
   be continued for an additional 2 hours credit.

1 Many of these courses require special fees.
A 230. **Basic Craft Techniques.** 2-4 hours.
Planning and developing creative products in a variety of media suitable for the elementary grades. An additional 2 hours credit may be taken to extend the craft range.

A 237. **Lettering Processes for Elementary.** 2 hours.
Studio class in lettering, progressing from pen to brush practice. Opportunity to develop skill in basic public school Manuscript form, progressing to an introduction to Italic Handwriting. Understanding and experience in the preparation of charts and posters is included.

A 238. **Lettering.** 2 hours.
A continuation of A 237 leading to a greater ability in personal calligraphy. Historical and contemporary means to visual communications are studied as related to preparation of teaching materials. Prerequisite: A 237.

A 251. **Art History.** 3 hours.
A survey of ancient and classical Art History starting with pre-historic man through early Renaissance.

A 252. **Art History II.** 3 hours.
A survey of Art History starting with High Renaissance and continuing through Baroque Art.

A 253. **Art History III.** 3 hours.
A survey of Art History starting with Neo-classic and continuing through Modern Art.

A 254. **Introduction to Ceramics.** 2 hours.
Introduction to ceramic techniques and materials; hand building, surface decoration and glazing. Students assist in stacking and firing the kiln.

A 255. **Ceramics.** 2-4 hours.
Continuing study of ceramic materials, mold making, casting, use of the potters wheel, decorating, and packing and firing the kiln. The advanced course may be continued for an additional 2 hours credit. Prerequisite: A 254.

A 261. **Bookbinding.** 2 hours.
Introduction to bookbinding through the construction of various types of bindings suitable for classroom use. Stress on creative use of materials as well as technical binding skill.

**Upper-Division Courses**

A 312. **Puppetry.** 2-4 hours.
A practical course for teachers in the production of original puppet plays including staging, scenery, and the construction of various types of hand puppets and marionettes. An additional 2 hours of credit may be taken to extend knowledge and broaden the learning range.

A 315. **Jewelry.** 2-4 hours.
Jewelry design and construction processes and techniques of soldering, surface enrichment, forging, shaping, and stone setting using silver, other metals, and semi-precious stones.

A 316. **Metalsmithing.** 2-4 hours.
Metal design and construction involving hand processes of raising, forging, and soldering with silver and other metals.
A 317. Figure Drawing. 2-4 hours.
Studio course in figure drawing in various media from the live model. An additional 2 hours credit may be taken to increase skills and deepen knowledge in this area.

A 318. Painting. 2-6 hours.
A basic exploratory course in painting using a variety of media: oil, enamel, lacquer, casine, etc. A total of three terms may be taken for extended learnings with 2 hours credit given for each term.

A 319. Ceramic Sculpture. 2-4 hours.
A basic course in clay sculpture in relief and in the round: non-representational and representational form will be explored. An additional 2 hours credit may be given for a second term.

A 323. Art Education (Elementary). 3 hours.
Evaluation of the various approaches to the creative art experiences made possible in the flexible course of study. Lectures, reading and discussions deal with recent trends of art expression in elementary and junior high school (applicable as Education on elementary degree requirements and certification). Prerequisite: A 221, 222, A 237.

A 324. Art Education (Secondary). 3 hours.
A study of art education through studio experiences and individual research. Lectures and reading dealing with current practices in art education in American high schools. Prerequisites: A 221, 222.

A 331. Sculpture. 2-4 hours.
Introduction to basic materials, techniques, and forms pertaining to sculptural processes with modeling, casting, carving in wood, cast stone, etc. A second term may be taken for an additional 2 hours credit.

A 351. Sketching. 2 hours.
A course designed to provide experience in sketching and composition of various subjects in a variety of media depending upon the class emphasis.

A 352. Art in Environment. 2 hours.
Study of interior and exterior aspects of man-made environment. Emphasis is on contemporary problems and trends in architecture, interior and landscape design. Development of practical means of planning and designing.

A 424. Layout and Design. 2 hours.
Advanced studio course in design dealing with problems of page and area layout, color, texture, line, and lettering. Prerequisites: A 228, A 238.

A 425. Advertising Design. 2 hours.
Advanced studio course in design dealing with problems of poster, package and publicity techniques. Exploration through studio activities and related research. Prerequisites: A 228, A 238.

A 426. Individual Studies in Art. (g) 2-12 hours.
Individual studies and studio opportunity requiring a planned program and the consent of the instructor.

A 434. Visual Techniques. (g) 3 hours.
A production and design class in teacher preparation of classroom instructional items in visual and three-dimensional materials. Diagrams, charts, models and teaching displays and devices will be developed. Instruction in school display and publicity techniques will be given. Consent of instructor required.
A 447. Crafts. 2 hours.
Studio activities involving various methods of making and setting tesserae to produce mosaic design; problems in ceramic tile setting and finishing.

A 448. Crafts. 2 hours.
Continuation of studio activities including enamel applied to copper and the use of other media suitable to the classroom at the upper grade levels.

A 449. Crafts. 2 hours.
Applied design on fabric using the following processes: Relief printing, silk-screen printing, batik, applique, stitchery, and hooking.

A 453. Appreciative Aspects in Art. (g) 3 hours.
Exploration of the historical development and current trends in various art forms, including crafts, architecture, sculpture, and painting with emphasis on developing standards and criteria for the understanding and appreciation of art.

Education and Psychology

Professors: COKLEY (department chairman), BRODY, FARLEY, GARRISON, HIATT, R. MULDER, YOST.
Associate Professors: Belden, Conkey, Cummins, Farrow, Glogau, Howard, Millsap, Redbird, Rowland.

EDUCATION

Upper-Division Courses

Ed 311. Historical Foundations of Education. 3 hours.
Historical and philosophical backgrounds of American education to assist in the development of understandings and interpretation of present-day educational issues.

Ed 314. Principles of Secondary Teaching. 3 hours.
Study of the actual classroom teaching process, including classroom organization and management, planning teaching units, evaluating pupil learning, and similar problems. Required of all secondary teacher education majors. Prerequisite: Ed 316, or consent of instructor.

Ed 316. Psychological Foundations of Education. 4 hours.
School and classroom learning; the nature of the learning process; the relation and significance of motivation; educational measurement and its application to appraising interests, aptitudes, achievements, and adjustment; use and interpretation of tests by classroom teachers. Prerequisite: Psy 311.

Ed 336. Foreign Language in the Grades. 3 hours.
Designed to stress methods and materials that are used in teaching foreign languages in the grades. Course also emphasizes improvement of student pronunciation and fluency of a foreign language. Open to those who have had two years of college French or Spanish.

Ed 341. Reading Instruction in the Secondary School. 3 hours.
Basic principles of reading instruction; nature and scope of the total reading program; methods and materials for reading instruction in the content areas of the secondary school.
Ed 342. Teaching in the Junior High School. 4 hours.
General methods for junior high school teachers; classroom activities relating to the core-type curriculum and the integration of subject matter; block-scheduling in the areas of language arts, social studies, and science-mathematics; unit preparation; the teacher's roles in the modern junior high school. Prerequisite: Ed 316.

Ed 344. Physical Education in the Grades. 3 hours.
Theory and practice in rhythm; group and folk dancing; stunts, games, self-testing activities, tumbling; materials; planning and evaluating programs with reference to basic principles of physical education for elementary and secondary teachers.

Ed 351. School Health Program. 3 hours.
Teaching of health education with emphasis on health knowledge, health attitudes, and health habits of school children, and the development of a health service program. Special study of the state health-education program. Prerequisite: Bi 101, 102, 103.

Ed 357. Methods and Materials: Reading. 3 hours.
Techniques and methods of teaching for elementary teachers with particular attention to the development of reading at various levels. Opportunities for observing children. Prerequisite: Ed 316, or consent of instructor.

Ed 358. Methods and Materials: Language Arts and Social Science. 3 hours.
Study of the child throughout his experiences in the elementary school as organized around the language arts and social studies. Observation of children and teaching methods. Prerequisite: Ed 316, or consent of instructor.

Ed 359. Methods and Materials: Science and Mathematics. 3 hours.
Modern methods of instruction at the elementary school level, based upon recent research and writing. The meaning theory in the teaching of arithmetic and problem approach to the teaching of science. Observation of children and teaching methods. Prerequisite: Ed 316, or consent of instructor.

Ed 361, 362. Learning and Instruction in the Elementary Schools. 9 hours each term.
A laboratory type course designed to integrate the competencies essential for elementary school teaching; the nature of learning; evaluation techniques for child study and their application in the classroom; the techniques of classroom instruction in the elementary school with emphasis on observation planning, supervised presentation and evaluation of learning experiences in the areas of reading, language arts, social science, and mathematics. Planned, sequential laboratory experiences in elementary school classrooms and audio-visual laboratory.

Ed 389. Reading and Telling Children's Stories. 3 hours.
Fundamental principles of the art of storytelling, including the planning of a story hour, location of suitable materials for use, and the techniques of learning and presenting the story; study and selection of literature appropriate for oral presentation to children of all ages.

Ed 391. Communication With the Deaf. 1-3 hours.
Techniques for facilitating individual interviews with deaf clients and students. Factors important to lipreading. Intensive training in manual communication.
Ed 392. Braille. 3 hours.
Beginning course in Standard English Braille. Covers use and care of equipment as well as discussion and introduction of Arithmetic and Music codes.

Ed 393. Speech Correction in the Schools. 3 hours.
The problems and therapeutic needs of speech handicapped children and the complementary roles of the speech therapist and classroom teacher in meeting these needs.

Ed 402. Workshop. Terms and hours to be arranged.

Designed for individual or special studies in a limited area of interest, under the guidance of a designated staff member.

Ed 407. Seminar. Terms and hours to be arranged.

Ed 408. Special Secondary Methods. 2-3 hours.
Individual courses in the study of the social science, the humanities, the science and the mathematics programs at the secondary level, including objectives, methods, materials, and equipment characteristic of a good instructional program. Prerequisite: Ed 314, or consent of instructor.

Ed 409. Practicum. Hours to be arranged. 3-9 hours.

REMEDIAL READING
THE MENTALLY RETARDED
THE DEAF
COUNSELING
SPEECH PATHOLOGY
AUDIOMETRY

Ed 410. Methods and Research Materials. (G) 3 hours each. Maximum 6 hours undergraduate and 9 hours graduate.
Problems and methods in selecting and organizing materials for teaching in any one of the following fields: Art, Music, Social Science, Science, Language Arts, Reading, Physical and Health Education, and Arithmetic. Emphasis for graduate students will be placed upon recent research and literature dealing with instructional materials, methods and facilities, including the completion of a special project. E indicates elementary level; S indicates secondary level.

Ed 414. Student Teaching: Kindergarten. 3-9 hours.
Similar to Ed 415, but on kindergarten level. Student teaching (elementary) normally is completed before this course is taken.

Ed 415. Student Teaching: Elementary. 15 hours.
Observing and teaching under the direction of a supervising teacher, including student teaching seminar. Opportunities for assuming direct responsibility for the learning activities of children, developing skill in the techniques of teaching and schoolroom management, and participation in the life of the school. Admission by application only.

Ed 416. Student Teaching: Secondary. 15 hours.
Similar to Ed 415, but on the secondary level.

Ed 417. Orientation to the Deaf and Hard of Hearing. (G) 3 hours.
Introduction to the psychological, social, medical, educational, and vocational problems of the deaf and hard of hearing.
Ed 418. Intern Teaching: Elementary. 12 hours.

Ed 419. Intern Teaching: Secondary. 12 hours.

Ed 424. Measurement in Education. (G) 3 hours.
Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation, and improvements of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. Simple statistics of test interpretation. Pre-requisite: Ed 316, or consent of instructor.

Ed 433. Resource Materials Centers. (G) 3 hours.
The organization and administration of resource materials centers; acquisition of materials; cataloging and classification; source materials on pamphlets, texts, reference books, recordings, pictures, programed materials; relationship to unit construction.

Ed 434. Preparation of Audio-Visual Aids. (G) 3 hours.
Development of audio-visual teaching aids for more effective teaching in large and diversified classes, team teaching and educational TV; design and construction of illustrated materials, flat and three-dimensional materials for display or projection. Senior standing or consent of instructor.

Ed 435. Audio-Visual Aids. (G) 3 hours.
Survey of the development and use of classroom films, slides, radio, electrical transcriptions, and other kindred visual and auditory aids in teaching; sources and appraisals of audio-visual aid materials, and their practical use.

Ed 436. Programed Instruction. (G) 3 hours.
Principles and techniques employed in the development of programed instructional materials as an element of teaching technology. Analysis of characteristic programs, devices, and psychological principles upon which current material and devices are based.

Ed 443. Group Process. (G) 3 hours.
Analysis of the dynamics of group interactions; principles and techniques; experimentation in classroom and other group situations; applications to the teaching-learning situation.

Ed 451. Preprimary Education. (G) 3 hours.
An evaluation of the preprimary period in terms of the opportunities it affords to build up good attitudes toward school life, to help the child adjust himself to the group, to build up good habits of work, and to develop a readiness for subjects in the first-grade curriculum, such as reading, numbers, and language.

Ed 452. Creative Arts in Childhood. (G) 3 hours.
A course designed to assist the student in gaining insight into the many ways young children express themselves with creative media. Exploration will be made into the interrelationships of music and rhythm, graphic arts, constructed materials, literature, dramatic play, and other areas of expression as young children use them.

Ed 463. The Maladjusted Child. (G) 3 hours.
Identification and modification of the behavior of the emotionally and socially maladjusted child. The home, school, and community are considered in relation to the child's mental health.
Ed 464. The Mentally Retarded Child. (G) 3 hours.
The psychology, education, and guidance of the mentally retarded child.

Ed 465. Diagnostic and Remedial Techniques in the Basic Skills. (G) 3 hours.
Diagnostic, remedial, and corrective techniques in basic school subjects (exclusive of reading).

Ed 466. The Gifted Child. (G) 3 hours.
The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child.

Ed 467. Applied Mental Hygiene. (G) 3 hours.
The development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis on application of mental hygiene principles to personality development of teachers and of children. Prerequisite: Ed 316.

Ed 468. Diagnostic and Remedial Techniques in Reading. (G) 3 hours.
For experienced teachers: the typical causes of difficulty in reading; evaluation of procedures to be used in remedial classes. Lectures, demonstrations, readings, and case studies. Prerequisite: Ed 480.

Ed 470. Education of the Exceptional Child. (G) 3 hours.
The emotionally disturbed, the mentally accelerated, the slow learner, and the physically handicapped. Visits are made to state institutions and agencies to acquaint students with services available.

Ed 471. Administration of Special Education. (G) 3 hours.
Organization and administration of special education programs. Laws, rules, and regulations governing the administration of special education programs in Oregon school districts.

Ed 472. Supervision Processes for Supervisors of Interns and Student Teachers. (G) 3 hours.
The role of the cooperating teacher in the supervision of interns and student teachers; the supervisory process; group and individual processes and techniques; analysis of supervisory problems.

Ed 476. School Law and Organization. (G) 3 hours.
The historic and current legal authority of federal, state, county, and local governments in the organization and administration of public school education. Special emphasis placed on the Oregon statutes as they apply to school organization, administration, and teaching.

Ed 480. The Psychology of Reading Instruction. (G) 3 hours.
An advanced course in the teaching of reading at elementary and secondary levels. Fundamental nature of the reading process; principles of growth, adjustment, and learning basic to reading achievement; psychological foundations of methods of reading instruction. Prerequisite: Ed 357 or its equivalent, or consent of the instructor.

Ed 483. General Intelligence Testing. (G) 3 hours.
Administration, scoring and interpretation of the Stanford Binet Intelligence Scale and the Wechsler Intelligence Scale for Children. Consent of instructor required.
Ed 484. Junior High School. (G) 3 hours.
Development of the junior high school, its purposes and objectives. The
general organization of the school; courses of study; present practices in
leading representative junior high schools, the direction of classroom ac-
tivities; provision for individual differences; pupil guidance, and sociali-
zation.

Introduction to the field of guidance and counseling. Methods and means of
assisting students with personal, educational, and vocational problems are
studied. Includes studies of school policies, administration, and tests in-
volved in a guidance program. The social agencies available to the school
are also emphasized.

Ed 486. Occupational and Educational Information. (G) 3 hours.
Materials available regarding occupations; interpretations of present trends;
value and usefulness for high school and college students.

Ed 487. Counseling Techniques. (G) 3 hours.
Purposes and techniques of counseling; dynamics of adjustment and per-
sonality change; personality tests and their interpretation; counseling and
the individual student. Prerequisite: Ed 485 or consent of instructor.

Ed 489. Curriculum for the Mentally Retarded. (G) 3 hours.
Curriculum resources, methods, and materials for special classes developed
on the basis of diagnosed characteristics of mentally retarded children. Pre-
requisite: Ed 464, or consent of instructor.

Ed 490. Guidance and Counseling of the Deaf. (G) 3 hours.
Orientation to the effects of early profound deafness. Evaluation of psycho-
logical, social, and vocational implications of deafness. Utilization of psy-
chological tests and measurements with the deaf. Special counseling tech-
niques, demonstrations, and practice.

Graduate Courses
Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

Ed 502. Workshop. Terms and hours to be arranged.

Ed 503. Thesis or Field Study. 3-9 hours.

Ed 506. Special Individual Studies. Maximum of 6 hours.
Individual surveys, evaluative studies, and special studies in a limited area
of interest, under the guidance of a designated staff member.

Ed 507. Seminar. 3-6 hours.

Ed 509. Practicum. Hours to be arranged. 3-9 hours.
REMEDIAl READING
THE MENTALLY RETARDED
THE DEAF
COUNSELING
SPEECH PATHOLOGY
AUDIOLOGY

Ed 512. Research Procedures in Education. 3 hours.
Methods, techniques, and tools of research. Critical analysis of sample re-
search studies and development of criteria and methods for conducting re-
search. Techniques of reading research and writing reports and articles for
professional journals.
Ed 513. Evaluation of Classroom Instruction. 3 hours.
Application of criteria for self-evaluation by individual teachers. Observation of effective teaching in the laboratory school. Analysis of research relating to teaching and discussion methods, group dynamics, and the evaluation of individual teaching.

Ed 514. Foundations of Education. 3 hours.
Major sociological, historical, philosophical, and psychological factors underlying present day American education, with study of related problems of educational adjustments in modern society.

Ed 518. Public and Professional Relations. 3 hours.
Professional responsibilities and ethics of teachers, as related to the lay public, related social agencies and to the education profession. Procedures in group dynamics, public relations, advisory councils, working with parents and parent groups. Emphasis upon means of achieving the professionalization of teaching.

Ed 519, 520. Childhood Education. 6 hours each term.
A laboratory-type course designed to extend the specific competencies essential for the teacher of primary grade children. The first term deals with the teaching of children at the preprimary level. The second term is concerned with developing quantitative concepts, reading and other language skills, and social learnings of children. Field trips, supervised teaching, seminars, and case studies. (Offered during summer sessions in a two-summer cycle.)

Ed 521. Audio-Visual Administration. 3 hours.
Organizing, administering, and coordinating the school audio-visual program; problems of acquiring, maintaining, and scheduling audio-visual equipment and materials in elementary and secondary schools.

Ed 522. Secondary School Curriculum. 3 hours.
Overview of the secondary school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the course of study; evaluation of the secondary school curriculum.

Ed 537, 538, 539. Teaching Speech to the Deaf. 3 hours each term.
Principles and techniques in developing the formation of English sounds by analytical methods. Introduction of speech by the whole word method. Correction of speech defects in the hard of hearing and the multiple handicapped deaf child. Development of speech in pre-school and school age children. Laboratory experiences with deaf children.

Ed 540. Teaching Language to the Deaf. 9 hours.
Principles and techniques of teaching language to deaf children. Leading systems used with a step by step development of at least one language system. Consideration of language problems of the multiple handicapped deaf child.

Ed 541. Teaching Elementary School Subjects to the Deaf. 3 hours.
Overview of curriculum for schools for the deaf. Emphasis on reading, reading readiness, the psychology of the reading process, reading skills in relation to other parts of the curriculum, and remedial measures in teaching the deaf.
Ed 542. **Teaching Elementary School Subjects to the Deaf.** 3 hours  
Arithmetic, social studies, art, and science on the elementary and pre-school levels of teaching the deaf. The use of audio-visual aids and other instructional devices.

Ed 543. **Teaching Secondary School Subjects to the Deaf.** 3 hours.  
Mathematics, social studies, and science on the intermediate and advanced levels. The use of audio-visual aids and other instructional devices.

Ed 544. **History of Education.** 3 hours.  
A study of the rise and development of educational systems in relation to an evolving society; emphasis on the study of ideas from Western Civilization which have influenced and shaped American Education.

Ed 546. **Philosophy of Education.** 3 hours.  
A study of philosophical assumptions, and their implications, on the fundamental issues and practices of American Education.

Ed 551. **Curriculum for the Deaf.** 3 hours.  
Curriculum resources, methods, and materials for programs based on the needs of deaf students.

Ed 553. **Elementary School Curriculum.** 3 hours.  
A systematic study of the elementary school curriculum, including pupil needs in everyday life situations; objectives; essentials of a good program; varying curriculum designs, organization of learning experiences; evaluation of learning; appraisal of newer curriculum practices.

Ed 554. **Elementary School Administration and Supervision.** 4 hours.  
Principles and desirable practices in the administration and supervision of elementary schools; characteristics of good elementary schools; leadership responsibilities and processes; school organizational patterns; pupil personnel and special services; school-community relationships; evaluation of the elementary school.

Ed 556. **Curriculum Construction.** 3 hours.  
Basic social, philosophical, and psychological factors for curriculum planning and organization at both the elementary and secondary levels, including practical emphasis upon specific techniques in curriculum making for the teacher.

Ed 557. **Curriculum Materials.** 3 hours.  
Effective use and organization of curriculum materials; text and reference books; supplementary pamphlet materials, films and slides, records and recordings, pictures; programmed materials; relationship to unit construction.

Ed 571. **Junior High School Curriculum.** 3 hours.  
A study of the junior high school curriculum with an emphasis on programs appropriate to needs of the early adolescent years; objectives; essentials of a good program; varying curriculum practices and organizational patterns; emphasis on the subject fields; evaluation of junior high school curriculum.

Ed 575. **School Finance.** 3 hours.  
The major problems of financing education, including principles in budget making, problems of school revenues, tax sources, and the unit costs of education.

Ed 578. **Intern Seminar: Problems in Teaching.** 3 hours.
Ed 579. Intern Seminar: Curriculum and Evaluation. 3 hours.
Ed 580. Intern Seminar: Curriculum and Instruction. 3 hours.

**PSYCHOLOGY**

**Lower-Division Courses**

Psy 201, 202, 203. **General Psychology.** 3 hours each term.
The nature of man, processes of learning, and common modes of resulting individual and social behavior. Attention is given to the evolving social adjustments of the individual, development of an objective attitude toward himself and others, emotional conditioning, and the mechanisms of adjustment necessitated by society.

**Upper-Division Courses**

Psy 311. **Human Development.** 3 hours.
A study of the psychology of human development during the periods of infancy and childhood with major emphasis on childhood. Consideration also given to prenatal development. Prerequisite: Psy 201.

Psy 312. **Psychology of Adolescence.** 3 hours.
Processes of human development leading to maturity and the effective functioning of the total organism; personal and social adjustments in adolescence; physical, mental, and moral changes of adolescence. Prerequisites: Psy 201.

Psy 407. **Seminar.** Terms and hours to be arranged.

Psy 423. **Case Study Procedures.** (G) 3 hours.
Analysis of the elements in case study and report writing; principles and techniques; report writing on studies of children, youth, and adults; analysis and evaluation.

Psy 436. **Character and Personality.** (G) 3 hours.
Major theories of personality development and function. Consent of instructor.

Psy 450. **Abnormal Psychology.** (G) 3 hours.
Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychose. Normal motives and adjustment. Mechanisms considered in their exaggerations in the so-called neurotic person. Consent of instructor.

Psy 460. **Developmental Psychology: Infancy and Childhood.** (G) 3 hours.
Development of behavior and psychological activity through the prenatal period, infancy, and childhood. Changes of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis of social influences on development. Consent of instructor.

Psy 461. **Developmental Psychology: Adolescence and Maturity.** (G) 3 hours.
Behavior changes during pre-adolescence and adolescence as related to physiological development, and social and cultural factors. Emphasis on personal and social adjustment. Consideration of problems relating to maturity and adulthood. Consent of instructor.
Psy 472. Individual Differences. (G) 3 hours.
Application of psychological methods to the study of the individual; problems involved in the prediction of human behavior; basic principles for quantitative and qualitative assessment of human characteristics; research findings concerning intelligence, achievement, aptitudes, interests, and personality.

Psy 494. The Psychology of Communication. (G) 3 hours.
The nature, origin, and purposes of speech and the basic psychological principles involved in the communicative process.

Graduate Courses

Psy 507. Seminar. Terms and hours to be arranged.

Psy 515, 516. Statistical Methods in Education and Psychology. 3 hours each term.
Statistical methods in education and psychology used in the treatment of collective data; principles and techniques in quantitative and experimental methods.

Psy 519. Research Studies in Child Development. 3 hours.
Survey and interpretation of current research studies and experimental programs concerned with the physical, emotional, intellectual and social development of children.

Psy 520. Psychology of Learning. 3 hours.
Introduction to the major theories of learning current among psychologists doing research in the field. Experimentation and research underlying these theories applied to modern educational practices. Includes learning theory and practices at all age levels through adulthood.

Psy 525. Individual Intelligence Testing. 3 hours.
A supervised experience with exceptional children in the administration of the Wechsler Adult Intelligence Scale and a continuation of the W.I.S.C. and Stanford Binet. Other instruments for measuring mental ability individually will be introduced. Prerequisite: Ed 483.

Counseling

Education and Psychology

Upper-Division and Graduate Courses
Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

Ed 406-506. Special Individual Studies.


Ed 424. Measurement in Education. (G)

Ed 470. Education of the Exceptional Child. (G)

Ed 483. General Intelligence Testing. (G)


Ed 486. Occupational and Educational Information. (G)
Ed 487. Counseling Techniques. (G)
Psy 436. Character and Personality. (G)
Psy 450. Abnormal Psychology. (G)
Psy 460. Developmental Psychology: Infancy and Childhood. (G)
Psy 461. Developmental Psychology: Adolescence and Maturity. (G)
Psy 519. Research Studies in Child Development. 3 hours.
Psy 520. Psychology of Learning. 3 hours.
Psy 525. Individual Intelligence Testing.

Educational Administration

Ed 572. Public School Administration.
Ed 554. Elementary School Administration and Supervision.
Ed 575. School Finance.
Ed 553. Elementary School Curriculum.
Ed 566. Curriculum Construction.
Ed 571. Junior High School Curriculum.
Ed 512. Research Procedures in Education.

Educational Media Specialist

An elective pattern of course work designed to prepare specialists in the fields of audio-visual aids, educational technology, instructional materials centers, curriculum and resource materials centers. These courses could be planned as a part of the elective sequences in the graduate degree or fifth-year non-degree patterns for elementary, junior high, or senior high school teachers or administrative service personnel.

A 424. Layout and Design.
A 425. Advertising Design.
A 434. Visual Techniques. (g)
Ed 406-506. Special Individual Studies.
Ed 409-509. Practicum.
Ed 410. Methods and Research Materials. (G)
Ed 433. Resource Materials Centers. (G)
Ed 434. Preparation of Audio-Visual Aids. (G)
Ed 435. Audio-Visual Aids. (G)
Ed 463. Programmed Instruction. (G)
Ed 486. Occupational and Educational Information. (G)
Ed 512. Research Procedures in Education.
Ed 513. Evaluation of Classroom Instruction.
Ed 540. Philosophy of Education.
Ed 553. Elementary School Curriculum.
Ed 566. Curriculum Construction.
Ed 571. Junior High School Curriculum.
Psy 520. Psychology of Learning.
Lib 486. Introduction to Cataloging and Classification.

Special Education Programs

Extreme Learning Problems

The fifth year program leading to the Master of Science degree with an area of concentration in Extreme Learning Problems.

Ed 512. Research Procedures in Education.
Ed 514. Foundations of Education.
Psy 460. Developmental Psychology: Infancy and Childhood. (G)

GENERAL EDUCATION CORE

SPECIALIZED CORE IN SPECIAL EDUCATION

Leading to the Standard Norm

Ed 464. The Mentally Retarded Child. (G)
Psy 525. Individual Intelligence Testing.
Sp 481. Speech Pathology. (g)
Sp 488. Audiology. (g)
Ed 509. Practicum: Remedial Reading.
Ed 487. Counseling Techniques. (G)
Ed 471. Administration of Special Education. (G)
Ed 507. Seminar: Secondary Reading Problems.

Leading to the Basic Norm
Ed 470. Education of the Exceptional Child. (G)
Ed 465. Diagnostic and Remedial Techniques in the Basic Skills. (G)
Ed 463. The Maladjusted Child. (G)
Ed 480. Psychology of Reading Instruction. (G)
Psy 525. Individual Intelligence Testing.
Ed 468. Diagnostic and Remedial Techniques in Reading. (G)
Ed 509. Practicum: Remedial Education.

Mental Retardation
Ed 470. Education of the Exceptional Child. (G)
Ed 463. The Maladjusted Child. (G)
Psy 525. Individual Intelligence Testing.
Sp 481. Speech Pathology. (g)
Ed 487. Counseling Techniques. (G)
Ed 465. Diagnostic and Remedial Techniques in the Basic Skills. (G)
Ed 424. Measurement in Education. (G)
Ed 464. The Mentally Retarded Child. (G)
Ed 489. Curriculum for the Mentally Retarded. (G)
Ed 507. Seminar: Mental Retardation.
Ed 483. General Intelligence Testing. (G)
Ed 463. The Maladjusted Child. (G)
Sp 481. Speech Pathology. (g)
Ed 465. Diagnostic and Remedial Techniques in the Basic Skills. (G)
Ed 470. Education of the Exceptional Child. (G)

Speech Correction
Upper-Division Courses
Ed 470. Education of the Exceptional Child. (G)
Psy 525. Individual Intelligence Testing.
Sp 482, 483. Speech Pathology. (g)
Teaching the Deaf

Upper-Division Courses

Sp 488. Audiology. (g)
Sp 489. Audiology. (g)
Ed 417. Problems of the Deaf and Hard of Hearing. (G)
Ed 539. Teaching Speech to the Deaf.
Ed 540. Teaching Language to the Deaf.
Ed 514. Foundations of Education.
Psy 460. Developmental Psychology: Infancy and Childhood. (G)

or,
Psy 461. Developmental Psychology: Adolescence and Maturity. (G)

Health and Physical Education

Professors: Livingston (department chairman), Laubenbach, McArthur.
Associate Professor: Cumiskey.
Assistant Professors: Key, McCullough, Miller.

HEALTH

Lower-Division Courses

HE 151. Personal Hygiene. 2 hours.
Basic scientific knowledge for healthful living; relation of the health of individuals to family and community welfare and to national vitality and progress; fundamental factors involved in intelligent living.

HE 252. First Aid. 2 hours.
Emergency treatment of injuries or sudden illnesses, with emphasis on school situations; upon successful completion the student receives a Red Cross standard first aid certificate.

Upper-Division Courses

HE 325. Nutrition. 3 hours.
Essentials of an adequate diet for all age groups; the nutritive values of the common food materials; emphasis on the diet of school children.
PHYSICAL EDUCATION

Requirements. Students majoring in elementary education are required to take the following courses in physical education: Basic Rhythms (111), Gymnastics and Self Testing (112), Beginning Swimming (113), Games and Relays (115), an Individual Sport (114), and a team Sport (115); All other students are required to complete six activity courses selected from at least four of the following areas: Rhythms, Gymnastics and Self Testing Activities, Aquatics, Individual and Dual Sports, Team Sports. These may be either 100 or 200 courses.

Students are permitted to earn credit in two activity courses each term, only one of which may carry a 100 number.

Lower-Division Courses

†PE 111, 112, 113, 114, 115. Physical Education. 1 hour.
Instruction is given in skills, techniques, history, and rules of the following sports and activities:

PE 111, 211—Rhythms. Folk and Square Dance, Social Dance, Modern Dance, Basic Rhythms.


†PE 211, 212, 213, 214, 215. Physical Education. 1 hour.
Instruction given in advanced skills and techniques of the sports and activities listed under PE 111, 112, 113, 114, 115. These are elective courses and will not substitute for the requirements of 6 term hours of PE 111, 112, 113, 114, 115.

Upper-Division Courses

PE 330. Playground Organization and Supervision. 1 hour.
Study of the recreation movement; construction of the playground; selection and placement of equipment; special play days and field meets. Not offered 1965-66.

PE 336. Outdoor Education Leadership. 3 hours.
Background and trends of the camping and outdoor education movement; includes brief study of related programs such as Girl and Boy Scouts, Camp Fire Girls, 4-H Clubs, and YMCA with assistance of specialists; work in practical outdoor skills. Offered even-numbered years.

PE 337, 338, 339. Officiating Sports. 1 hour each term.
Rules, techniques, and game practice in men's and women's sports.

* Special fee.
† Not more than 12 hours of physical education activity courses numbered 100 and 200 may be counted toward graduation except in the case of a physical education major or minor.
PE 343. **Organization and Administration of Physical Education.** 3 hours.
   Policies and procedures; facilities; staff; budget; scheduling; equipment.

PE 350. **Teaching of Sports.** 1 hour.
   Various sports are covered in regard to theory, fundamentals, styles of play, individual adaptations as to positions by lectures and discussions. Not offered 1965-66.

PE 359. **Athletic Training and Conditioning.** 2 hours.
   Study and practice in massage, bandaging, treatment of sprains, bruises, strains, and wounds; the importance of diet and conditioning.

PE 363. **Tennis and Golf Coaching.** 2 hours.
   Demonstration and discussion of the fundamentals, individual skills, methods of instruction, systems of play, philosophy of coaching, and management of matches. Offered odd-numbered years.

PE 364. **Wrestling and Swimming Coaching.** 2 hours.
   Demonstration and discussion of the fundamentals, individual skills, methods of instruction, philosophy of coaching, and management of meets and matches. Offered odd-numbered years.

PE 365. **Football Coaching.** 2 hours.
   Demonstrations and discussion of the fundamentals, individual skills, methods of instruction, systems of play, philosophy of coaching, and management of games. Offered even-numbered years.

PE 366. **Basketball Coaching.** 2 hours.
   Demonstration and discussion of the fundamentals, individual skills, methods of instruction, systems of play, philosophy of coaching, and management of games. Offered even-numbered years.

PE 367. **Baseball Coaching.** 2 hours.
   Demonstration and discussion of the fundamentals, individual skills, methods of instruction, systems of play, philosophy of coaching, and management of games. Offered odd-numbered years.

PE 368. **Track and Field Coaching.** 2 hours.
   Demonstration and discussion of the fundamentals and skills of each of the track and field events, methods of instruction, philosophy of coaching, and management of meets. Offered even-numbered years.

PE 371. **Kinesiology.** 3 hours.
   The study of human motion; implications for the learning and teaching of physical education activities and coaching of sports at the varsity level; includes a brief review of anatomy and physiology. Offered odd-numbered years.

PE 445. **The Physical Education Curriculum.** (g) 3 hours.
   Construction of physical education curricula on the basis of accepted principles, criteria, functions, and evaluations; emphasis on integration with the total school program.

PE 447. **Principles of Physical Education.** (g) 3 hours.
   History, philosophy, and trends; scientific bases; place of physical education in the general education program; practical problems.
PE 473. Physiology of Exercise. 3 hours.
Physiological effects of muscular exercise, physical conditioning, and training. The significance of these effects for health and for performance in activity programs.

HOME ECONOMICS
Lower-Division Courses

HEc 201. Clothing Construction and Selection. 3 hours.
Principles of selection and construction applied in planning and constructing garments; beauty, health, and economy in dress; good taste. Offered on demand only.

HEc 202. Foods, Nutrition, and Cookery. 3 hours.
Basic principles of food preparation, menu making, and meal service. Offered on demand only.

Upper-Division Courses

HEc 301. Consumer Economics. 3 hours.
The specific financial problems which are faced by individual and family groups. Consideration given to study of budgeting, home operation, legal aspects of home, investments, installment buying and insurance.

Humanities

Professors: Albin, Bellamy, Dale.
Associate Professors: Alva (department chairman), Hofstetter.

WRITING

Lower-Division Courses

Wr 111, 112, 113. English Composition. 3 hours each term.
A sequence to help the student develop writing skills, with emphasis upon exposition, argument, and research.

Wr 218. Creative Writing. 3 hours.
Opportunity and encouragement for those who wish to express themselves through literary mediums. Prerequisites: demonstrated skill in writing; Wr 111, 112, 113.

Upper-Division Courses

Wr 414. Advanced Composition. (g) 3 hours.
Advanced instruction and practice in the principles of writing, recommended for students who plan to teach high school English. Prerequisite: Eng 494.

Graduate Courses

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

Wr 510. Forms of Expository Prose. 3 hours.
Intensive study and practice for analysis and production of expository prose. Recommended for secondary English teachers.

1 Interested students should check with the Registrar's Office to determine whether these courses are being offered during the current year.
ENGLISH

Lower-Division Courses

Eng 1. Remedial Clinic: Speech, Reading, or Writing. No credit.
Speech: Establishment of proper habits of pronunciation, articulation, pho-
nation, and diction.
Reading: Careful diagnosis of reading difficulties and corrective measures
meets to meet the needs of individual students.
Writing: A review of fundamentals, primarily for upper classmen whose
written work has fallen below the desired level of proficiency.

Eng 107, 108, 109. World Literature. 3 hours each term.
A sequence in narrative prose, drama, and poetry. Complete works are
studied so the student may be familiar with some of the masterpieces in
Western-world literature.

Eng 201, 202, 203. Shakespeare. 3 hours each term.
The important comedies, historical plays and tragedies. The three terms
constitute a sequence but may be taken separately.

Eng 247. An Introduction to Drama. 3 hours.
Selected representative plays that have exerted considerable influence on the
drama in English.

Upper-Division Courses

Eng 340, 341, 342. English Literature. 3 hours each term.
Representative English literature from the Anglo-Saxon to the present.

Eng 361. Contemporary Literature. 3 hours.
Contemporary novel, poetry, and drama with emphasis on the development
of new literary forms, new concepts, attitudes and movements.

Eng 366. The Development of the English Novel. 3 hours.
The English novel from its beginning to the end of the 19th century.

Eng 367. The Development of the American Novel. 3 hours.
The American novel from its beginning to the present.

Eng 368. The Development of the Contemporary Novel. 3 hours.
The 20th century novel with concentration on works published outside Eng-
land and the United States.

Eng 380, 381, 382. American Literature. 3 hours each term.
The content, form, and history of American letters, including the intellec-
tual and environmental forces which shaped the literature.

Eng 388 (Lib 388). Children’s Literature. 3 hours.
A study of the many books available for children in the elementary school.
(Applicable as Education on elementary degree requirements and certifica-
tion.)

Eng 446. Major Theories in Literary Criticism. (g) 3 hours.
A study of the history, principles, and practice of various aspects of liter-
ary criticism. Prerequisite: 15 hours in literature or consent of the in-
structor.

Eng 447, 448, 449. The Study of Major Figures in Literature. (g) 3
hours each term. Maximum credit 9 hours.
A study in depth of the influence of the events of an author’s life on his lit-
erary production.
Eng 457. **Forms and Meaning of Poetry.** (g) 3 hours.
A study of contemporary poetry and its foundations of judgment as seen in literary criticism from Plato to the present time.

Eng 458. **Forms and Meaning of Prose.** (g) 3 hours.
A study of contemporary prose fiction, American, English, and European, and its foundations of judgment as seen in literary criticism.

Eng 459. **Forms and Meaning of Drama.** (g) 3 hours.
A study of contemporary drama, in English and in translation, and its foundations of judgment as seen in literary criticism from Aristotle to the present time.

Eng 475. **Modern American Grammar and Usage.** (g) 3 hours.
A study of grammar and usage with emphasis on new linguistic theories.

Eng 489 (Lib 489). **Literature for Adolescents.** (g) 3 hours.
A study of the literature used in junior and senior high schools.

Eng 490. **Development of the English Language.** (g) 3 hours.
Growth of the English language from its beginning to the present day.

Eng 494. **Nature of the English Language.** (g) 3 hours.
A general view of the English language with emphasis on modern American language.

**Graduate Courses**

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

Eng 510. **Recent Developments in Language Study.** 3 hours.
Advanced study of the methods used by leading linguistic scholars of contemporary American-English and a study of the symbolic nature of the language.

**HUMANITIES, PHILOSOPHY, AND RELIGION**

**Upper-Division Courses**

Hum 402. **Workshop.** 2-3 hours.

Hum 407. **Seminar.** Hours to be arranged.

Phi 311, 312. **Philosophy.** 3 hours each term.
Introduction to philosophy through consideration of its basic problems.

R 460. **Comparative Religion.** 3 hours.
A study and comparison of the great religions of the world.

**Graduate Courses**

Hum 502. **Workshop.** 2-3 hours.

Hum 507. **Seminar.** Hours to be arranged.

Hum 511. **Contemporary Developments in the Humanities.** 3 hours.
Emphasis upon the search for values in the modern world as reflected in the forces shaping contemporary philosophies and trends in contemporary literature. For elementary teachers; not acceptable for secondary certification.

Hum 512. **Contemporary Developments in the Humanities.** 3 hours.
A study of the literary expression of contemporary values as evidenced in the work of currently influential Western authors. (Acceptable for secondary certification.)
JOURNALISM

Lower-Division Courses

J 211. Introduction to Journalism. 3 hours.
Introduction to the field of journalism, its place in society, and its scope, philosophy and techniques in the various media; techniques of reporting and writing; lecture hours supplemented by work on the college newspaper. Prerequisite: WR 111 or equivalent.

J 351, 352, 353. Journalism Projects. 1 hour each term.
Applications of journalistic techniques and principles through work on student publications. Maximum of six hours.

MODERN LANGUAGES

Lower-Division Courses

RL 50, 51, 52. First-Year French. 4 hours each term.
An introduction to French stressing comprehension and conversation with emphasis on pronunciation. Practice in the language laboratory required. Exercises in grammar and elementary composition. Not open to students with a background of high school French without the consent of the instructor.

RL 101, 102, 103. Second-Year French. 4 hours each term.
Study of selected texts of modern French authors with purpose of expanding the student’s competence and fluency in speaking, writing and understanding French. Complete grammar review. Work in the language laboratory required. Prerequisite: Completion of RL 50, 51, 52 or two years of high school French.

RL 60, 61, 62. First-Year Spanish. 4 hours each term.
Elementary Spanish with stress on comprehension and conversation. Pronunciation, grammar and reading included. Use of language laboratory required. Not open to students with a background of high school Spanish without the consent of the instructor.

Comprehensive grammar review with emphasis on understanding, speaking and reading Spanish. Selections from representative Spanish authors. Use of language laboratory required. Prerequisites: RL 60, 61, 62 or two years of high school Spanish.

Upper-Division Courses

RL 311, 312, 313. Survey of French Literature. 2-3 hours each term.
Masterpieces of various periods; general survey. Prerequisite: two years of college French or equivalent.

RL 341, 342, 343. Survey of Spanish Literature. 2-3 hours each term.
Masterpieces of various periods; general survey. Prerequisite: two years of college Spanish or equivalent.

SPEECH

Lower-Division Courses

Sp 111. Fundamentals of Speech. 3 hours.
Opportunity to develop poise and confidence in speech and to organize and present material effectively.
Sp 112. Fundamentals of Speech. 3 hours.
Continuation of Speech 111.

Sp 120. Voice and Diction. 3 hours.
Practice of the principles of tone production and phonetic analysis of English sounds as a basis for correct and effortless speech.

Sp 144. Choral Reading. 1 hour.
Group reading of poetry and rhythmic prose for appreciation and enjoyment. Development of techniques for elementary and secondary classroom use.

Sp 239. Oral Interpretation. 3 hours.
Emphasis is placed on the practical values and application of oral reading through the interpretation of prose, poetry, and dramatic literature.

Sp 244, 245, 246. Stagecraft. 1 hour each term.
Problems in the construction of scenery, stage properties, and lighting; stage management and construction of various types of settings.

Sp 251. Elements of Acting. 3 hours.
Elementary principles of acting technique.

Application of principles of acting and dramatic production. Credit available for students working on regularly scheduled theatre productions, with consent of the director.

Sp 255. Make-Up. 1 hour.
Purposes and techniques of application of theatrical make-up; the use of make-up in the various theatrical media.

Sp 270. Projects in Public Speaking. 3 hours.
Training and participation in debating, oratory, and extempore speaking.
Prerequisite: consent of instructor.

Upper-Division Courses

Sp 311. Advanced Interpretation. 3 hours.
Instruction in the discovery and oral expression of meaning and feeling in prose, poetry, and dramatic literature.

Sp 344, 345, 346. Stagecraft II. 1 hour each term.

Advanced work in acting and dramatic production.

Sp 356. Theory of Acting. 3 hours.
Principles and techniques of acting; problems in analysis and interpretation of dramatic literature.

Sp 357. Play Production. 3 hours.
Studies and applications of the fundamental principles underlying play production and direction.

Sp 364. Play Direction. 3 hours.
Sources of dramatic material, choice of plays, casting and rehearsal of players.
Sp 411. *Speech for the Classroom Teacher.* (g) 3 hours.
Study of voice improvement techniques and oral projects that can be used in the elementary and secondary school classroom. Projects for improvement of the teacher's speech.

Sp 412. *Advanced Speech.* 3 hours.
Selected readings on the principles of the speech arts, illustrated by exercises in the various types of vocal communication. Prerequisite: consent of instructor.

Sp 415. *Dramatics in the School.* (g) 3 hours.
A study of the role of drama as an activity in the school, including materials necessary for undertaking the development of the drama, the educational values of drama, and the theory of dramatic productions.
*The following courses are designed for students in speech therapy.*

Sp 370. *Phonetics.* 3 hours.
A study of the sounds used in speech, their production, determination, and the physical and psychological problems involved in their perception. Emphasis upon the application of sound to the listening and speaking activities of children.

Sp 371. *Speech Science.* 3 hours.
A study of the anatomy, psychology, and physics of speech.

Sp 478. *Diagnostic Methods in Speech Pathology and Audiology.* (g) 3 hours.
Scientific approaches and techniques in the diagnosis of the major speech and hearing defects. This is a practicum course and students will observe and/or perform requisite diagnostic functions.

Sp 481. *Speech Pathology.* (g) 3 hours.
Symptoms, etiology, and treatment of functional articulation disorders, delayed speech, emotional speech disorders. (Prerequisite: Speech Corr. in the Schools.)

Sp 482. *Speech Pathology.* (g) 3 hours.
Symptoms, etiology and treatment of speech disorders due to congenital malformation, injury, or neurological impairment. (Prerequisite: Speech corr. in the Schools.)

Sp 483. *Speech Pathology.* (g) 3 hours.
Symptoms, etiology and treatment of stuttering. (Prerequisite: Speech corr. in the schools.)

Sp 484, 485, 486. *Clinical Speech Therapy.* (g) 2 hours each term.
Actual case experience for student clinicians in the diagnosis and treatment, under supervision, of speech-defective children and adults. Prerequisite: consent of instructor.

Sp 487. *Audiology.* (g) 3 hours.
Anatomy of the ear and the speech mechanism, psychophysics of hearing, physical attributes of speech sounds, types and causes of hearing loss, speech involvements of acoustical impairment.

Sp 488. *Audiology.* (g) 3 hours.
Techniques and interpretation of pure tone and speech audiometry.
Sp 489. Audiology. (g) 4 hours.
Principles and techniques of teaching lipreading, including Nitchie, Jena, Kinzie, Muller-Walle, and others. Techniques and principles of auditory training.

LIBRARY SCIENCE

Lib 390. Book Selection and Reference Materials. 3 hours.

Lib 484. School Library Administration. (g) 3 hours.
The organization, management and function of the school library, and its place in the instructional program. Problems of objectives, standards, housing and acquisitions. Planned for both school librarians and administrators.

Lib 486. Introduction to Cataloging and Classification. (g) 3 hours.
Introduction of principles of cataloging and classification, including basic catalog card forms, name and subject entries, filing, shelf listing, and mechanical preparation of books.

Lib 489 (Eng 489). Literature for Adolescents. (g) 3 hours.
A study of the literature used in junior and senior high schools.

Lib 490. Children's Literature. (g) 3 hours.
A study of the many books available for children in the elementary school. (Applicable as Education on elementary degree requirements and certification.)

BUSINESS ADMINISTRATION

BA 211, 212, 213. Fundamentals of Accounting. 3 hours each term.
Study of the function of accounting as a tool for the planning and administration of business enterprise. Primary emphasis on analysis and interpretation of financial data, rather than on collection and presentation.

Fall: Position and income statements, conceptual bases for collecting and presenting data, flows of cost, the accounting cycle, depreciation, formation of working capital.

Winter: Inventory and its control, risk-equity relationships, interest and annuities, analysis of position and income statements, fund statements, manufacturing costs, organization for and administration of cost and budgetary control.

Spring: Application of cost concepts to decision making, taxation, and its effect on planning, break-even analysis, internal control, capital budgeting, information theory applied to accounting reports, the impact of price-level changes on accounting data.

Prerequisites: Sophomore standing or consent of instructor.

1 Courses in library science applicable to standardization requirements as established by the state department of education.
2 Not applicable to humanities major or minor in the general studies curriculum.
Music

Professor: E. Smith (department chairman).
Associate Professors: Redfern, Wallace, Geist.
Assistant Professors: R. Glasgow, J. Scott.
Instructors: Dobbs, A. Glasgow, Mitton.

Lower-Division Courses

Mus 121, 122, 123. Music Theory I. 4 hours each term.
An integrated study of the materials of music through analysis, singing, keyboard, ear-training, and part-writing. Includes all diatonic harmonies, and simple modulation. Required in the music major and music minor programs, elective for others.

Mus 181, 182, 183. Class Lessons in Voice. 1 hour each term.
The essentials of singing, including tone production, diction, style, and interpretation.

Mus 190, 290. Applied Music. 1 or 2 hours each term.
Individual instruction in voice, organ, piano, band, and orchestral instruments. Beginning and lower intermediate grades.

Mus 192, 193, 194. Class Lessons in Piano. 1 hour each term.
Elementary piano course including rhythm, notation, keyboard, and transposition.

*Mus 195. Band. 1 hour each term.
Participation in organized band. Open to freshmen and sophomores who pass the necessary tests of ability. The class meets three periods per week. Opportunities are also offered for membership in small instrumental ensembles.

*Mus 196. Orchestra. 1 hour each term.
Participation in organized orchestra. Open to freshmen and sophomores who pass the necessary tests of ability. The class meets three periods per week. Opportunities are also offered for membership in small instrumental ensembles.

*Mus 197. Chorus. 1 hour each term.
Participation in organized chorus. Open to freshmen and sophomores who pass the necessary tests of ability. The class meets three periods per week. Opportunities are also offered for membership in small vocal ensembles.

Mus 201. Introduction to Music and its Literature. 3 hours.
An introduction to music literature through the study of elements and organizing principles as they relate to music of all periods. Stress is placed on listening to music that is popular in the concert hall. Required as a general education course for junior high, high school, general studies and music majors. Elective to others.

Mus 202. Introduction to Music and its Literature. 3 hours.
A historical study of selected musical masterworks from 1750 to 1900. Special emphasis is placed on the understanding of the musical styles of the period. Required for music minors and majors. Elective to others. Mus 201 is not a prerequisite.

* Not more than 12 hours of group music participation may be counted toward graduation.
Mus 203. *Introduction to Music and its Literature.* 3 hours.
The old and the new in music literature and history, Music of Bach, Handel, and their predecessors; and music of the contemporary period, starting with the impressionism composers. Special unit on jazz. Mus 201 and 202 are not prerequisites. Required for music majors.

Mus 221, 222, 223. *Music Theory II.* 3 hours each term.
A continuation of Mus 121, 122, 123. Composition, analysis of masterworks, and ear training. Includes altered chords and contemporary trends in composition. Prerequisite: Mus 123.

Mus 224, 225, 226. *Keyboard Harmony.* 1 hour each term.
Application of theoretical principles to the keyboard. Exercises in modulation, transposition, and development of extemporaneous playing. Must be taken concurrently with Music Theory II.

The study of each family of instruments, stressing good tone production and fingering techniques. Class serves as a laboratory for the development of some playing and theoretical knowledge of each type of instrument, including teaching techniques. Some instruments are provided by the college.

**Upper-Division Courses**

Mus 314, 315, 316. *Harmonic and Structural Analysis.* 2 hours each term.
Thorough study of formal analysis, including the phrase unit, period, two and three-part song forms, developed ternary forms, sonata, symphony, concerto, etc. Prerequisite: Mus 221, 222, 223.

Mus 320, 323. *Conducting.* 2 hours each term.

Mus 332, 333, 334. *Stringed instruments.* 1 hour each term.
Class lessons on stringed instruments.

Mus 347. *Band and Orchestra Management.* 3 hours.
The organization of school bands and orchestras, care and repair of instruments, selection of materials, class teaching of instruments, and the technique of the band and orchestra rehearsal. Prerequisite: Mus 235, 236, 237.

Mus 360, 361, 362. *History of Music.* 3 hours each term.
A study of the development of music from primitive times to the present day.

Mus 381. *Music Fundamentals.* 3 hours.
A musical background for the classroom teacher; singing song material; acquiring good vocal habits; reading music; experiencing simple problems in rhythm; listening to music; analyzing its forms; learning keys, scales, intervals; primary chords, and their application to the piano keyboard. Open only to juniors or seniors.

Acquiring more skill in reading song material; more advanced rhythmic patterns; major and minor modes; two-, three-, and four-part music; chord-ing; ear training; dictation. Prerequisite: Mus 381.
Mus 383. Music Education (Elementary). 3 hours.
The close relationship between music education and other areas in education; planning a music environment; directing the experiences of children in music. Prerequisites: Mus 381, 382, or Mus 121, 122, 123.

Mus 384. Music Education (Secondary). 3 hours.
Materials and methods for developing high school choral organizations; adolescent voice, its care and development; survey of choral literature; public performance; program building; general music class; assembly singing. Prerequisites: Mus 121, 122, 123.

Mus 390, 490. Applied Music. 1 or 2 hours each term.
Individual instruction in voice, organ, piano, band, and orchestral instruments. Upper intermediate and advanced students.

*Mus 395. Band. 1 hour each term.
Participation in organized band. Open to juniors and seniors who pass the necessary tests of ability. The class meets three periods per week.

*Mus 396. Orchestra. 1 hour each term.
Participation in organized orchestra. Open to juniors and seniors who pass the necessary tests of ability. The class meets three periods per week.

*Mus 397. Chorus. 1 hour each term.
Participation in organized chorus. Open to juniors and seniors who pass the necessary tests of ability. The class meets three periods per week.

Mus 407. Seminar. 3-6 hours.

Mus 453. Appreciative Aspects in Music. (g) 3 hours.
Exploration of music through styles including classical, romantic, impressionistic, and modern; and through major musical works including symphony, opera, oratorio, sonata, and tone poem. Emphasis is placed on developing standards and criteria for the understanding and appreciation of music.

Science and Mathematics

Professors: Postl (department chairman), Thompson.
Associate Professors: Cummins, Walker.
Assistant Professors: Broderson, Floyd, Fulmer, Giles, Green, Jaffee.

GENERAL SCIENCE

Lower-Division Courses

GS 201, 202, 203. Foundations of Physical Science. 4 hours each term.
An introduction to the various branches of the physical sciences, their basic terminology, fundamental laws, procedures, and interrelations. The course is selective in approach and historical in emphasis. Students with adequate high school backgrounds may be excused from parts of this sequence. Not open to students with college courses in the separate fields. Three lectures, one two-hour laboratory period.

Upper-Division Courses

GS 402. Workshop. Terms and hours to be arranged.

GS 406. Special Individual Studies. Terms and hours to be arranged.

* Not more than 12 hours of group music participation may be counted toward graduation.
GS 407. Seminar. Terms and hours to be arranged.

GS 411. History of Science. (g) 3 hours.
A brief history of the development of the natural sciences, their social implications, and the growth of scientific philosophy. Prerequisite: upper-division standing in science.

GS 424. Astronomy. (g) 3 hours.
A descriptive study of the various members of the solar system, stars, and constellations, as well as some recent ideas on the structure and origin of the universe. Includes study of the basic instruments used in astronomy and observations through a telescope.

GS 441. Natural History. (g) 3 hours.
An introduction to the collection, identification, and ecology of local plants and animals with some consideration of sound conservation practices. Classroom techniques of establishing and maintaining collections, aquaria, and terraria are included. Two lectures and one two-hour laboratory period. Prerequisite: One year of biological science.

Graduate Courses

GS 502. Workshop. Terms and hours to be arranged.

GS 506. Special Individual Studies. Terms and hours to be arranged.

GS 507. Seminar. Terms and hours to be arranged.

GS 511. Contemporary Developments in the Sciences and Mathematics. 3 hours.
Review of recent literature on some selected areas in the field of the natural sciences. Includes a brief examination of the aims, purposes, and organization of the field.

BIOLICAL SCIENCES

Lower-Division Courses

Bi 101, 102, 103. General Biology. 3 hours each term.
The principal concepts of biology, including consideration of the variety of plant and animal life and the mechanisms for maintenance and replacement of the individual and the population. Two lectures, one two-hour laboratory period.

Bi 221. Introduction to Bacteriology. 3 hours.
The study of bacteria and other microorganisms emphasizing patterns of growth and metabolism, distribution and laboratory culture. Two lectures, two two-hour laboratory periods.

Upper-Division Courses

Bi 341. Genetics. 3 hours.
The principles and mechanisms of inheritance including consideration of chromosome transmission, nature of the gene, action of genetic material, and the genetics of populations. Prerequisite: one year of biological science or consent of instructor.
Bi 374, 375, 376. **Natural History of Oregon.** 3 hours each term.
The earth and life history of Oregon; kinds of distribution of contemporary plant and animal life; interrelations of organisms and their environment; conservation of natural resources; collection, identification, and field study of representative plants and animals with several extended week-end field trips during the spring term. Two lectures, one three-hour laboratory period. Prerequisite: one year of biological science.

Bi 412. **Microbiology.** (g) 4 hours.
Morphology, physiology, ecology, and systematics of bacteria, fungi, microalgae and protozoa. Two lectures, two three-hour laboratory periods.

Bi 446. **Evolution.** (g) 3 hours.
Evidences of evolution; mechanisms of evolution, including genetic variation, selection, and other factors.

Bi 453. **Ecology.** (g) 3 hours.
Interaction between living animals, plants and their environment. Two lectures and one three-hour laboratory period.

Bi 458. **Field Biology.** (g) 3 hours.
Advanced training in systematics, life histories, and field methods in selected areas of biology. One lecture, two three-hour laboratory periods.

Bi 460. **Preparation of Biological Materials.** (g) 4 hours.
Procurement, preparation, use and care of biological materials for teaching and experimentation. Serves as the methods course for biology majors in secondary education. Two lectures, two three-hour laboratory periods.

Bi 463. **Parasitology.** (g) 4 hours.
Classification, morphology and life histories including host relationships of protozoan, helminth and arthropod parasites. Two lectures, two three-hour laboratory periods.

**BOTANY**

**Lower-Division Courses**

Bot 201, 202, 203. **General Botany.** 3 hours each term.
Introductory study of plant life including the structure and function of both vascular and non-vascular plants during the first two terms. The third term is largely devoted to the identification of native plants. Two lectures, one three-hour laboratory period.

**Upper-Division Courses**

Bot 331. **Plant Physiology.** 4 hours.
An examination of the physiological processes and mechanisms involved in plant nutrition, photosynthesis, assimilation of organic and inorganic materials, energy balance, water requirements, growth factors and organismic control. Two lectures, two three-hour laboratory periods. Prerequisite: one year of a biological science and chemistry.

Bot 371. **Structure of Seed Plants.** 3 hours.
Morphology, anatomy, and reproduction of seed plants. One lecture, two three-hour laboratory periods. Prerequisite: Bot 203.
ZOOLOGY

Lower-Division Courses

Z 201, 202, 203. General Zoology. 3 hours each term.
Introductory study of animal life including the patterns of structural organization and function of both invertebrates and vertebrates with an emphasis on the developmental patterns, mechanisms of temporal and spacial distribution during the spring term. Two lectures, one three-hour laboratory period.

Upper-Division Courses

Z 324, 325. Comparative Vertebrate Anatomy. 4 hours each term.
This course will be concerned with a comparative analysis of vertebrate morphology, emphasizing the study of organs and organ systems, and an introduction to the taxonomy, evolution, and ecology of the vertebrates. Two lectures, two three-hour laboratory periods. Prerequisite: Z 201, 202, 203, or consent of the instructor.

Z 326. Comparative Vertebrate Embryology. 4 hours.
Principles and mechanisms of the developmental biology of the Metazoa with emphasis upon the vertebrates. Laboratory includes the descriptive examination of the embryonic stages of representative species. Two lectures, two three-hour laboratory periods. Prerequisite: Z 201, 202, 203, or consent of the instructor.

Z 334, 335. Human Anatomy and Physiology. 3 hours each term.
Emphasis on the gross anatomy and the functioning of the various systems in the human during Z 334. A more general treatment of animal physiology during Z 335. Two lectures, and one three-hour laboratory period. Prerequisite: one year of a laboratory science.

Z 451. Invertebrate Zoology. (g) 4 hours.
Survey of the invertebrate animals exclusive of Arachnida and Insecta; emphasis on ecology and phylogeny. Two lectures, two three-hour laboratory periods. Prerequisite: two years of biological science.

Z 474. Entomology. (g) 3 hours.
Study of selected aspects of the morphology, life history, physiology and ecology of insects and some consideration of related Arthropods. Two lectures, and one three-hour laboratory period. Prerequisite: two years of biological science or consent of the instructor.

CHEMISTRY

Lower-Division Courses

Ch 104, 105, 106. General Chemistry. 4 hours each term.
An introductory course to the fundamental concepts of general chemistry with some emphasis on organic chemistry during the spring term. Three lectures, one three-hour laboratory period. Prerequisite: high school algebra or consent of the instructor.

Ch 204, 205, 206. General Chemistry. 5 hours each term.
A standard first year sequence with emphasis on inorganic and physical chemistry. The laboratory work during spring term is largely devoted to qualitative analysis. Three lectures, two three-hour laboratory recitation periods. Prerequisite: high school algebra and chemistry.
Upper-Division Courses

Ch 311. **Qualitative Analysis.** 4 hours.
Classical theory and semi-micro practice in the classification, separation, and identification of the common cations and anions. Two lectures, two three-hour laboratory periods. Prerequisite: Ch 206 or consent of instructor.

Ch 312, 313. **Quantitative Analysis.** 4 hours each term.
Fundamental principles of quantitative analysis. Laboratory work consists largely of standard volumetric and gravimetric procedures. Two lectures, two three-hour laboratory periods. Prerequisite: Ch 206 or consent of instructor.

Ch 334, 335, 336. **Organic Chemistry.** 4 hours each term.
A study of the carbon compounds of both the aliphatic and aromatic series. Prerequisite: Ch 206 or consent of instructor.

Ch 340. **Elementary Physical Chemistry.** 3 hours.
Aspects of physical chemistry having application in engineering, biological sciences, and medicine. Use of mathematics minimized. Some knowledge of physics required. Prerequisite: Ch 206 or consent of instructor.

Ch 417. **Advanced Inorganic Chemistry.** (g) 3 hours.
A comprehensive study of the chemistry of the elements and their compounds, including nuclear, atomic, and molecular structures. Prerequisite: Ch 312.

Ch 423. **Chemical Preparations.** (g) 1-2 hours each term.
Important methods of synthesis of compounds in the fields of inorganic, organic or biochemistry.

Ch 425. **Advanced Analytical Chemistry.** (g) 3 hours.
Selected topics in analytical chemistry, modern techniques and instrumentation. Prerequisite: Ch 312.

Ch 433. **Advanced Organic Chemistry.** (g) 3 hours.
An introduction to some advanced topics of organic chemistry, particularly as related to biological systems, including some of the modern research methods. Prerequisite: one year of organic chemistry or consent of instructor.

Ch 450. **Biochemistry.** (g) 3 hours.
An introduction to the chemistry of biological compounds including their metabolism. Prerequisite: Ch 335.

GEOLOGY

Lower-Division Courses

G 201, 202, 203. **Geology.** 4 hours each term.
A study of the agents and processes that have built up, deformed, and torn down the surface features of the earth; the main events in earth history; history occurrences, and characteristics of the common rocks and minerals. Lectures, laboratory and field study.
Upper-Division Courses

G 351. Elements of Geology. 3 hours.
Principles of geology, processes which shape the surface of the earth, historical development of the earth. Designed as an introduction to geology for general science teachers and elementary teachers. Two lectures, one two-hour laboratory period.

G 450. Rocks and Minerals. (g) 3 hours.
Identification of common minerals; origin and occurrence of sedimentary, igneous, and metamorphic rocks. One lecture, two two-hour laboratory periods.

G 453. Geology of the Pacific Northwest. (g) 3 hours.
An introduction to the geologic history of the region, with particular emphasis on the physiographic provinces of Oregon, including their structures, lithology, mineral resources, and paleontology. Field trips by arrangement. Two lectures, one two-hour laboratory period.

PHYSICS

Lower-Division Courses

Ph 161. Photography. 2 hours.
For students interested in photography as an avocation. Elementary work with hand camera; developing, printing, enlarging. One lecture, one three-hour laboratory period.

Ph 201, 202, 203. General Physics. 4 hours each term.
A year sequence in the study of energy and physical phenomena; including the fundamental principles of mechanics, heat, sound, light, electricity, magnetism, and a brief introduction to modern physics. Three lectures, one three-hour laboratory period. Prerequisite: Mth 102 or equivalent high school trigonometry.

Ph 207, 208, 209. General Physics. 4 hours each term.
Mechanics, heat, light, sound, electricity, and magnetism. For students in engineering and the physical sciences. Three lectures, one three-hour laboratory period. Prerequisites: Mth 104, 200, 201, previously or parallel.

Upper-Division Courses

Ph 311, 312, 313. Introduction to Modern Physics. 3 hours each term.
An introduction to atomic hypothesis and kinetic-molecular theory, discharge through gases, x-rays and radioactivity, atomic and nuclear physics, the nature of electro-magnetic radiations, wave mechanisms and the photoelectric effect. Two lectures, one two-hour laboratory recitation period. Prerequisite: Ph 203 and Mth 203 or consent of the instructor.

Ph 390. Basic Meteorology. 3 hours.
An introductory study of the weather elements, their observation, measurement, and use in forecasting. Includes a study of the atmosphere, its makeup, energy relationships, and circulation.

Ph 421, 422. Modern Physics. (g) 3 hours each term.
A brief study of some of the developments in physics since 1895 with emphasis on nuclear processes and cosmic rays, relativity and quantum theory, solid state, cryogenics and others. Prerequisite: one year each of college mathematics and physics. Offered during summer sessions.
Ph 437. Electronics and Radio. (g) 3 hours each term.  
Alternating current theory; circuits; electron tubes and solid state electronic devices; amplification; radio frequency generators; modulation; timing circuits; transmission and radiation; measurements of audio and high frequencies.

Ph 465. Geometrical and Physical Optics. (g) 3 hours each term.  
Prerequisite: Ph 203, Mth 203.

MATHMATICS

College Preparatory Noncredit Course

Mth 60. Elementary Algebra. No credit.  
For students entering with less than one year of high school algebra. Four lectures.

Lower-Division Courses

Mth 100. Intermediate Algebra. 4 hours.  
For students entering with only one year of high school algebra. Prerequisite: Mth 60 or equivalent.

Mth 101. College Algebra. 4 hours.  
Introduction to logic; elementary set theory; development of the real and complex number systems; brief introduction to congruences, groups, fields, Boolean algebra; inequalities; functions; graphs, theory of equations; permutations; combinations; probability. Prerequisite: Mth 100 or equivalent.

Mth 102. Trigonometry. 4 hours.  
Emphasis on the concept of function; analytic trigonometry; solution of triangles; addition formulas; trigonometric equations; curve sketching; complex numbers; DeMoivre's theorem; polar coordinates. Prerequisite: Mth 101 or equivalent.

Mth 103. Analytic Geometry. 4 hours.  
The straight line, circle, conics, translation and rotation of axes, parametric equations, and polar coordinates. Planes and lines in three dimensions. Prerequisite: Mth 102 or equivalent.

Mth 104. Algebra and Trigonometry. 4 hours.  
Real numbers and sets, functions, inequalities, linear algebra, mathematical induction, trigonometric functions and graphs, algebraic and trigonometric equations. Prerequisite: mathematics placement examination.

Mth 121, 122, 123. Essentials of Mathematics. 3 hours each term.  
Major emphasis is on the postulates of an ordered field and the set of real numbers. Includes abstract groups, mathematical proof and functions. Some theory and applications of algebra, geometry and trigonometry are reviewed. Students without high school algebra may find this course difficult.

Mth 200. Introduction to Differential and Integral Calculus. 4 hours.  
Slope of a curve, derivative of a function, limits, differentiation and integration of elementary functions with applications. Prerequisite: Mth 102.

Mth 201, 202, 203. Differential and Integral Calculus. 4 hours each term.  
Sequence courses for students majoring in the physical sciences, mathematics, or engineering. Prerequisite: Mth 103 or Mth 200.
Upper-Division Courses

Mth 311, 312, 313. Mathematics for Elementary Teachers. 3 hours each term.
Mathematical background information and theory necessary for teaching in the elementary school. Prerequisite: Mth 121, 122, 123, or equivalent.

Mth 314. Linear Algebra. 3 hours.
Operations on sets; mapping; transformations; vector spaces; matrices; linear systems; brief introduction to linear programming, the simplex method; solution of higher order polynomials; quadratic factoring method. Prerequisite: Mth 103 or equivalent.

Mth 325. Elements of Statistical Methods. 3 hours.
An introduction to sample theory, organization and classification of data, distributions, measurement of central tendencies, and relative position, correlation, and reliability. Prerequisite: junior standing and consent of instructor.

Mth 343. Theory of Numbers. 3 hours.
Properties of integers, Euclid's algorithm, diophantine equations, prime numbers, congruences, residues of powers, and quadratic residues. Prerequisite: Mth 200.

Mth 344. Geometry. 3 hours.
Geometry considered as groups of transformations, (translation, rotation, dilation, inversion, similitude, orthogonal), and their invariant properties. Prerequisite: Mth 103 or consent of instructor.

Mth 351. Computer Coding. 3 hours.
Coding instruction and practical laboratory work on electronic digital computer. Prerequisite: Consent of instructor.

Mth 361. Probability. 3 hours.
Combinatorial problems, continuous distributions, expectation, laws of large numbers. Prerequisite: Mth 200.

Mth 402. Workshop. Terms and hours to be arranged.

Mth 407. Seminar. Terms and hours to be arranged.

Mth 410. Foundations of Mathematics. (g) 3 hours.
Fundamental concepts and logical structure of arithmetic, algebra, and geometry. Designed for prospective teachers of high school mathematics and mathematics majors. Prerequisite: Calculus.

Mth 412. Higher Algebra. (g) 3 hours.
An introduction to abstract algebra. Groups, rings, fields; equivalences and isomorphism. Prerequisite: Mth 203 or consent of instructor.

Mth 415. Modern Geometry. (g) 3 hours.
Modern development of geometries as abstract mathematical systems. Major emphasis on groups, finite geometries, Euclidean and non-Euclidean geometries, and the unstated assumption of Euclid. Prerequisite: Mth 103 or equivalent.
SOCIAL SCIENCE

Mth 417, 418, 419. Mathematics Reorientation for Elementary Teachers. 3 hours each term.
Designed to help experienced teachers whose mathematics preparation for teaching current elementary school mathematics education programs is inadequate. Primarily intended as an in-service offering. Credit does not count for advanced mathematics or toward advanced degrees. Prerequisite: consent of instructor.

Mth 442. Logic and Boolean Algebra. (g) 3 hours.
Logical constants and variables; sentences; sentential and designatory functions; quantifiers; connectives; truth functions; postulates for sentential calculus; postulates for Boolean Algebra and examples; partial ordering, lattices. Prerequisite: 6 hours of upper-division mathematics.

Mth 491, 492, 493. Mathematics for Secondary Teachers. (g) 3 hours each term.
Intensive study of the modern mathematics curriculum for grades 7-12 and methods of teaching. Emphasis on Arithmetic (491), Algebra (492) and Geometry (493). Prerequisite: Mth 103. Enter any term.

Mth 494, 495, 496. Analysis. (g) 3 hours each term.
Real and complex number systems, set theory, sequences, series, continuity, differentiation, sequences of functions, Fourier series, functions of several variables, Euclidean and Hilbert spaces, measurable spaces, Riemann and Lebesque integrals. Prerequisite: Consent of instructor.

Graduate Courses

Mth 502. Workshop. 3 hours.

Mth 506. Special Individual Studies. 3 hours.

Mth 507. Seminar. 3 hours.

Social Science

Professors: GRIFFIN (department chairman), CHARLES.
Associate Professors: ANDERSON, CHATHAM, NOXON.
Assistant Professors: AINSWORTH, DORPMAN, HESS, HUXFORD, JOHNSON, LIESKE, PRATT.
Instructors: BAKER, VANDERVOOR.

GENERAL SOCIAL SCIENCE

Lower-Division Courses

SSc 111. Orientation. 1 hour.
A course in effective adjustments to college and social needs. Effective means and methods of study; use of the library; time budgeting; importance and spacing of reviews; the amount and type of recreation suitable; social adjustments for happy and effective living; means and methods of modifying personality deficiencies.

Upper-Division Courses

SSc 402. Workshop. Terms and hours to be arranged.

SSc 406. Special Individual Studies. Terms and hours to be arranged.

SSc 407. Seminar. Terms and hours to be arranged.
SSc 408. Special Secondary Methods. 3 hours.
Provides experiences in methods of teaching the social sciences. In addition, emphasis is placed upon familiarizing the student with the philosophies and materials of social science. Prerequisite: Ed 314 or consent of the instructor.

SSc 492. Ideologies of the Twentieth Century. (g) 3 hours.
Capitalism, Communism, Socialism, and Fascism, considered as politico-economic systems. Totalitarian methods contrasted with democratic methods.

SSc 493. International Organizations. (g) 3 hours.
Arrangements for national security; balance of power, collective security, United Nations. Causes of war and prerequisites for peace. Designed for those preparing for secondary teaching to better understand the relations between nations and the efforts towards peace.

SSc 494. American Foreign Relations. (g) 3 hours.
The origin, character, and consequences of American foreign policies from 1900.

**Graduate Courses**
Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

SSc 502. Workshop. Terms and hours to be arranged.

SSc 506. Special Individual Studies. Terms and hours to be arranged.

SSc 507. Seminar. Hours to be arranged.

SSc 511. Contemporary Developments in the Social Sciences. 3 hours.
A study of contemporary literature in the various social science areas for elementary teachers.

SSc 512. Contemporary Developments in the Social Sciences. 3 hours.
A study of contemporary literature in the various social science areas for junior and senior high school teachers. (Acceptable for secondary certification.)

SSc 513. Social Problems in American Democracy. 3 hours.
A selected list of problems in the United States such as conservation problems, the nation’s health, crime, etc. Designed to give factual and interpretive background for secondary teachers.

SSc 514. Economic Problems in American Democracy. 3 hours.
Selected economic problems of both a general and specific nature. The aim is to give prospective secondary teachers a firm foundation of both theoretical and applied materials in various phases of United States economic-industrial situations and problems.

SSc 515. Political Problems in American Democracy. 3 hours.
A study of current domestic political problems.

**ECONOMICS**

**Lower-Division Courses**

Ec 201, 202, 203. Principles of Economics. 3 hours each term.
Social phenomena due to the wealth-getting and wealth-using activities of man.
Upper-Division Courses

Ec 325. Labor Economics. 3 hours.
Source and nature of labor problems, labor market, wages, unions, law related to employer and union tactics, effects of levels of employment. Pre-requisite: Ec 201, 202, 203, or consent of instructor.

Ec 417. Problems of Economic Development of Nations. (g) 3 hours.
A study of development problems in such countries as Israel, the Latin Americas, and the African nations.

Ec 450. Contemporary Economic Systems. (g) 3 hours.
A study of capitalism, communism, and socialism in contemporary society.

GEOGRAPHY

Lower-Division Courses

Geog 105, 106, 107. Introductory Geography. 3 hours each term.
A study of the field of geography with emphasis on human activities, interests and welfare.

Geog 221. Field Geography. 3 hours.
Intensive study of a limited area near Salem; elementary map making and studies of economic and human geography.

Geog 240. Cartography. 3 hours.
Study and practice in using, compiling, and drafting of maps, charts, and diagrams for teaching purposes.

Upper-Division Courses

Geog 313. Geography of the Pacific Northwest. 3 hours.
Economic study of the distribution of population and industries of Oregon and the Pacific Northwest in relation to the geographic environment of the entire area; special emphasis will be placed on Oregon.

Geog 340. Intermediate Cartography. 3 hours.
The study of the elements of the cartographic processes including functional analysis, compilation and design, and map production.

Geog 408. Senior Colloquium in Geography. 3 hours.
Study of significant geographical writings from the early Grecian period to the present, with emphasis on methods and interpretations.

Geog 414. Geographic Backgrounds of American History. 3 hours.
The influence of geographic factors on colonization, settlement patterns, and westward movement in America.

Geog 425. Geography of Conservation. (g) 3 hours.
Consideration of the geographic distribution of American resources against a background of world resources; conservation philosophies and practices and their geographic bases in relation to conservation education.

Geog 426. Geography of Europe. (g) 3 hours.
The geographic backgrounds of European civilization; present-day regional and political adjustment to environmental conditions; geographical aspects of European colonial expansion; analysis of the geographic individualities of the major countries, and the relations between human life and natural environment.
Geog 427. Geography of the Soviet Union. (g) 3 hours.
Geography of the Soviet Union; its resources, peoples, and world position.

Geog 428. Geography of Australasia and Oceania. (g) 3 hours.
A physical, economic, and social treatment of the lands and peoples and their potentialities in the Pacific Basin.

Geog 429. Geography of North America. (g) 3 hours.
A course providing a basic understanding of economic and social activities in the major human-use regions of home continent; description, analysis, and interpretation of the present occupancy pattern of the major regions of the United States and Canada.

Geog 432. Geography of Africa. (g) 3 hours.
A study of the African continent, its nations and colonies; the physical and cultural geography of the regions of the continent and their geographical implications.

Geog 433. Political Geography. (g) 3 hours.
The nations of the world and their interrelations analyzed geographically, emphasizing both physical and cultural factors of the environment, to assist in the interpreting of world affairs.

Geog 440. Advanced Cartography. 3 hours.
Specialized study with individual projects in the creative techniques of cartography.

Geog 450. Geography of Asia. (g) 3 hours.
A study of economic and social development of the countries of Asia; the economic bases of human life; problems of population pressure; trends in economic and political exploitation; and the geographic backgrounds of oriental and occidental interrelations.

Geog 461. Geography of South America. (g) 3 hours.
A course dealing with the economic and social development of the countries of Latin America; raw materials; potential markets; inter-American relations.

Geog 463. Geography of Middle America. (g) 3 hours.
Intensive study of the physical and cultural processes that have shaped the landscapes of Middle America.

HISTORY

Lower-Division Courses

Hst 101, 102, 103. History of Western Civilization. 3 hours each term.
Development of western civilization from early beginnings to the present time; political, social and cultural factors; present conditions and problems.

Hst 201, 202, 203. History of the United States. 3 hours each term.
Development of the American nation, with emphasis on its political and social concepts.

Upper-Division Courses

Hst 304, 305, 306. English History. 3 hours each term.
A general survey covering political, economic, social, intellectual, and religious developments. Attention to Empire and Commonwealth as well as the homeland.
Hst 341, 342, 343. **Europe since 1789.** 3 hours each term.
Political, social, economic, and cultural trends from the French Revolution to the present. Fall: 1789 to 1870; Winter: 1870 to 1929; Spring: 1929 to the present.

Hst 350, 351, 352. **Latin America.** 3 hours each term.
A survey of Latin America from the early Indian civilizations through the periods of European conquest and colonization; the wars of independence; the rise of national states; their internal development and foreign relations.

Hst 390. **History of the Far East.** 3 hours.
Political, economic and diplomatic history of the Far East with specific emphasis on contemporary situation.

Hst 391, 392, 393. **History of the Far East.** 3 hours each term.
Introduction to the history, civilization, and institutions of Southern and Eastern Asia.

Hst 408. **Senior Colloquium in American History.** 3 hours.
Study of significant historical writings from colonial times to the present, with emphasis on methods and interpretations.

Hst 449. **History of the Soviet Union.** (g) 3 hours.
Political, diplomatic, and social development of Russia from 1917 to the present.

Hst 458. **Civil War and Reconstruction.** (g) 3 hours.
The critical decade before the Civil War; the war years; the tragic post-war era.

Hst 459. **Industrial America.** (g) 3 hours.
The United States from 1865 to 1900. Industrialization, growth of Big Business, and relationship of government to Business; settling the last frontier; immigration and the rise of cities; new intellectual currents; emergence as a world power.

Hst 460, 461, 462. **American Social and Intellectual History.** (g) 3 hours each term.
Influence of social factors on American history and culture; main currents of American intellectual and cultural life from colonial times to the present. Prerequisites: Hst 201, 202, 203.

Hst 476, 477. **History of the West.** (g) 3 hours each.
The American Frontier. First term: the early American frontier; second term; the trans-Mississippi West.

Hst 478. **History of the Pacific Northwest.** (g) 3 hours.
Historical and cultural development of the Pacific Northwest.

Hst 480, 481, 482. **The United States in the Twentieth Century.** (g) 3 hours.
The Progressive Era, the United States and the world; industrial growth; depression and the New Deal; World War II and postwar America. Cultural developments, with emphasis upon the new developments in education.

Hst 483. **Colonial America.** (g) 3 hours.
Colonial background of American history, from the Age of Discovery to the Revolution.
Hst 484. The New Nation. (g) 3 hours.
History of the United States from 1775 to 1850; the Revolution, confederation, the Constitution; government under the Federalists.

Hst 492. World Problems. (g) 3 hours.
Consideration given to current and significant, political, economic, and social problems of the nations in relation to American culture.

POLITICAL SCIENCE

Lower-Division Courses

PS 201, 202, 203. American Governments. 3 hours each term.
First term: Principles of American political system; organization of national governments. Second term: Powers and functions of national government. Third term: Practical operation and contemporary reforms in government at state and local levels. PS 201 may be taken separately, but it is prerequisite for PS 202.

Upper-Division Courses

PS 327. Foreign Government. 3 hours.
A comparative study of the governments of selected foreign nations.

PS 414. Political Parties. (g) 3 hours.
The nature, organization, and operation of political parties; election and recall of officers; proportional representation; initiative and referendum; the role of public relations and advertising agencies.

PS 415. Public Opinion and Pressure Groups. (g) 3 hours.
An analysis of the role of public opinion and interest groups in determining of public policy.

SOCIOLOGY

Lower-Division Courses

Soc 214, 215, 216. Anthropology. 3 hours each term.
Interplay of man with his environment through the ages; factors influencing physical and cultural development of man.

Upper-Division Courses

Soc 307. Principles of Sociology. 3 hours.
Fundamental concepts and empirical findings in the field of sociology.

Soc 308. World Population and Social Structure. 3 hours.
Introduction to the general field of population studies providing within a sociological framework an analysis of historical, contemporary, and anticipated population conditions and trends, as these are related to social situations and the organization of society.

Soc 309. American Society. 3 hours.
An analysis of American society in terms of its significant structural traits and their functions; major changes in American society and selected contemporary problems examined in their relation to institutional structures.

Soc 338. Marriage and the Family. 3 hours.
The growth and development of the family throughout its life cycle. The family and personality development, dating, courtship, mate selection, engagement, marital and family adjustment, family crises.
Soc 408. **Senior Colloquium in Sociology.** 3 hours.
Study of significant sociological writings from the 19th century to the present, with emphasis on methods and interpretations.

Soc 416. **Criminology and Delinquency.** (g) 3 hours.
The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs.

Soc 437. **Sociology of Race Relations.** (g) 3 hours.
The development of "race consciousness" and emergent problems of race-culture contacts.

Soc 443. **The Field of Social Work.** 3 hours.
A survey of the development of the social services, with emphasis on current American trends.

Soc 480. **Cultural Anthropology.** (g) 3 hours.
A survey of ancient and primitive men and their cultures.

Soc 490. **Educational Sociology.** (g) 3 hours.
Structure and functioning of society, as a background for the study and evaluation of education in its varied forms; the contribution of sociological principles and findings to the improvement of educational practices.

**Degrees Awarded 1963-64**

**Degree of Master of Science**

**Elementary Education**

Donald Bennett, Monmouth
Sister Gerard Bitz, Mt. Angel
Thomas Dean Brown, Forest Grove
Sister Cecilia Buchholz, Albany
Bonita Burke Campbell, Salem
Ladona Iris Decker, Portland
Wanita Propest Haugen, Scio
C. Stanley Hays, Portland

Harold Arthur Hoy, Eastside
Clyde Edgar McLain, Philomath
Ronald Lee Rainsbury, Silverton
Doris Anick Smith, Tigard
Harrell Allyn Smith, Portland
Dorotha Marie Standley, Salem
Edward Alfred Steele, West Linn
Joanne Marie Walter, Lebanon

**Secondary Education**

John Roswell Cummings, Heppner
Elain Shizue Furushima, Kapaa, Kauai, Hawaii
Robert Allan Jarvill, Salem
Stanley LeRoy Kerzel, Salem
Don Richard McCracken, Monmouth
Benjamin Rempel, Glendale

William George Ritchie, Salem
Norman McGregor Robinson, Monroe
James Joseph Saxton, Salem
Paul Alvin Shaffer, Salem
Lloyd Donald Showers, Paisley
Edward Neal Snyder, Salem

**Special Education**

Wilma Peden Arensmeyer, Salem
Glady E. Derrfier, Woodburn
Rodney James Gould, Salem
Carleen Ann House, Monmouth
Lorraine Virginia Jenkins, Salem
Keith Frederick Lange, Salem

Jack Roger Olson, Portland
William Racey, Salem
Elda E. Scott, Portland
Harold Howland Churchill Wheeler, Salem
G. I. Wilson, Monmouth
Degree of Bachelor of Science

Elementary Education

Georgia Owen Akin, Milwaukie
Frances Swetnam Ames, Sweet Home
Anne Gaskill Anderson, Lebanon
Mary Farrell Andrews, Yoncalla
*Patricia Jeanne Baker, Newberg
Claudia Lynn Reeves Barber, St. Helens
Judith Ann Bassett, Salem
Mary Jacqueline Beck, Portland
Delores Ellen Bee, Portland
Janet Sherrill Beeler, Gaston
Janice Marie Beeler, Sherwood
Florence Frances Bell, Albany
Sandra Lee Bierly, Halsey
Mary M. Black, Salem
Shirley Jean Boring, Boring
Brenda Beatrice Brown, Sweet Home
Vivienne Lois Bulloch, Eugene
Judith Louise Burns, St. Helens
Elise Lorraine Buss, Roseburg
Osipa P. Cannack, Salem
Daniel Melvin Casebier, Albany
Frieda Marie Chappell, Sweet Home
Mildred Elizabeth Churchill, Oakland
Peggy Marie Murphy Clark, Umpqua
Marilye Cole, Milwaukee
Duane Belhurst Comfort, Amity
Beatrice Comings, Laconia
Peggy Carol Conser, Lebanon
Shirley Jean Couey, Philomath
Sarah Jean Culp, Tangent
Susanne Duvall Crocker, Hebo
Winnona June Curry, Toledo
Arlene P. Cutler, Corvallis
Patricia Williams Cutsforth, Astoria
June Mary Davey, Medford
Frances Elizabeth Digerness, Silverton
Janice Irene Dilley, Clatskanie
Florence May Doran, The Dales
Veronica Dee Durham, Salem
Janice Ethel Eby, Long Beach, California
Alma L. Ellis, Salem
Lola D. Emmel, Staples, Minnesota
Beatrice Louise Eyestone, Portland
Karen Fountain Falk, Nehalem
Mary Catherine Fesken, Salem
Ervin Lee Fetter, Estacada
Viqian Irene Fisher, Astoria
Elizabeth El Nora Foster, Dayton
Thomas Melvin Frith, St. Paul
Sharon May Gehrie, Portland
Curris LeRoy Gettis, Salem
Velma Doris Ghsar, Salem
Twyla Earlene Gooch, Salem
Marjorie Grace Good, Carlton
Lani Gorowski, Portland
Ann Elizabeth Grant, Portland
Judith Lee Green, Beaverton
Florence Brown Gustafson, Portland
Moni Ruth Cowley Hadley, Portland
Karlene Ruth Halstead, Dallas
Lynn Hamersly, Colton
Julianne Horton Hanel, Coos Bay
Adeline Bernice Hanson, Medford
Carol Ann Harrison, Albany
Georgana Hope Harrison, Seaside
Ruth S. Hause, The Dalles

Ella E. Hawkins, Philomath
Howard Wimber Haynes, Portland
Susan Trinette Hazen, McMinnville
Margaret Nea Healy, Corvallis
Beth Doreen Hochling, Aurora
Vernal Moe Hoffman, McMinnville
Margaret Alice Hosef, Langlois
Barbara Brose Hoover, Portland
Ann Marie Huntley, Sheridan
Ruth Elizabeth Jaras, Forest Grove
Dorothy Marjorie Jensen, Salem
Billie Lee John, Willamina
Edith I. Johnson, Astoria
William Clare Johnson, Albany
Elise Mae Jory, Salem
Marlys Ladonna Kellum, Monmouth
Vivian LaVanne Kittle, Aumsville
Maxine Loosley Kizer, Chiloquin
Myrna Danette Klevgard, Salem
Ruth I. Konka, Salem
Betty Lorraine Korpela, Astoria
Edward Alfred Kuenzi, Salem
Patricia Margaret Lawler, Milwaukie
Henrietta Augusta Lindburg, Klamath,
Tanganyika, East Africa
Barbara Joan Salnow Locke, Monmouth
John Howard Loftis, Olympia, Washington
Maysel Montgomery Lyon, Scio
Edith Batchelder Mann, Florence
Ralph Louis Mann, Florence
Gary Minst Matsuoka, Makaweli, Kauai,
Hawaii
Darlene Catherine McBurney, Albany
Eldonna Lee McClain, Lebanon
Mary Lee McIntyre, Aloha
Richard Terry McIntyre, Aloha
*Sue Ellen Zank McMurray, Astoria
Keith Arthur Mendenhall, Monmouth
Claire Maxine Miller, Sweet Home
Howard Bradley Mills, Monmouth
Orchid Marie Mix, Winchester Bay
Sandra Arlene Moll, Portland
Beverly Anderson Munkres, Portland
Genevieve Lansing Murphy, Umpqua
Carolyn Ruth Nordblom, Gresham
Clyde Edward Olson, Santa Rosa, Calif.
Myrtle I. Olsson, Dallas
Robert Henry O'Neal, Monmouth
Lana Moore Parnell, Clarksdale, Tenn.
Karen Fountain Patterson, Monmouth
Janet Lee Perkins, Independence
Alta S. Pettit, McMinnville
Vinda Lee Pope, Warrenton
Nellie Constance Potzner, Monmouth
Mary Jean Price, Otter Rock
Deanna Joyce Pugh, Roseburg
Darrell Clyde Rainforth, Salem
Mildred Leonabell Ray, Tigard
Terrie Lois Reins, Monmouth
Sheila Claire Richards, Beaverton
Donna Marie Roberts, Salem
Beverly Biggar Russell, Portland
Ronald Alvin Russell, Portland
Vernon VanCise Senholm, Tillamook
Dorothy Wilcox Sellers, Banks
Helen Roberts Seppa, Astoria

* Graduate with honors
Russell Franklin Shenk, Sheridan
Joyce Ann Short, Tillamook
Fannie Irene Skinner, Monmouth
Joanne Marie Skonnard, Portland
Anita Collins Smith, Portland
Gloria Jean Stemple, Siletz
Carolyn Joy Steward, Seio
Amy Emiko Sugai, Haliimaile, Maui, Hawaii
Karen Aiko Takayama, Wailuku, Maui, Hawaii
Edna Earl Tidwell, Portland
Dixie Lou Keller Trout, Albany
Clarice Gail Van Rouckel, Tillamook
Iola M. Walch, Molalla
Franklyn Lee Wall, Maupin
Verda May Wall, Dallas
Noel Emerson Ware, Newberg
Donald James Weaver, Portland
Carol Ann Weigel, Molalla
Judith Arlene Wells, Myrtle Point
Herman Robert Wengert, Salem
Patricia Ann Whitaker, Salem
Thomas A. Whitaker, Salem
Dorothy Cobb White, Springfield
Helen Oget Williams, Portland
Joyce Marie Williams, Bend
Barbara Lynn Willis, Drain
Hazel Koellermeyer Wooster, La Center, Washington
Dorothy Lawon Wright, Junction City
Glenda Alice Wright, Portland
Anne Wilson Wrolstad, Molalla
Ellen Sachie Yasumaka, Kamakani, Kauai, Hawaii
Audrey Takaie Yoshimura, Kahului, Maui, Hawaii
Gloria H. Y. Young, Honolulu, Hawaii
Diane Gaye Yunker, Sweet Home
Cecelia Mardelle Zink, Independence

Degree of Bachelor of Science

Secondary Education

*Johnny Kurt Alexander, Portland
Ronald August Paul Anderson, Salem
Carole Elaine Baker, Dallas
Dave English Bashaw, Salem
Bonnie Kurth Beach, Salem
Darrell Edwin Bradly, Monmouth
Bennett Lewis Breon, Siletz
Charles Lee Burns, Independence
John Holden: Cavender, Salem
Cliford Lee Cook, Salem
Lawrence Wilmer Creel, Jr., Eugene
William Vernon Crook, Pistol River
Douglas Lee Cusford, Lake Oswego
Thomas Otto Davis, Coquille
Howard Allan Devoe, Dallas
Kenneth Frank Ellis, Jr., Jefferson
Larry Arthur Enos, Salem
Jerry Allen Finigan, Goble
John Joe Martin Foss, Salem
Alice Ann Friesen, Dallas
Robert Reutter Gates, Salem
Gary Lee Graham, Seaside
Laura Lynn Rogers Graham, Independence
Ralph Leslie Gripton, Falls City
Donald Duane Guenther, Salem
Robert Glenn Guenther, Salem
Decker John Edward Halstead, Salem
Bryan Lee Hanson, Monmouth
Darlene Ware Helwig, Monmouth
Craig Mason Hermann, Portland
Nadine June Herrala, Portland
Ernest Thomas Hohman, Portland
Carl Hutzler, Salem
Robert Orville Johnson, Turner
James Allen Johnston, Salem
John Stephens King, Salem
David Allen Kromer, Lake Oswego
Majorie Ivace Lewis, Blythe
Allen Glenn Lester, Lake Oswego
Gary Lynn Linton, Beaverton
Jerry L. Maddox, Albany
John H. Mannis, Monmouth
Robert Eugene Marr, Monmouth
Patrick Martin McDermott, Salem
James Leonard Mechul, Albany
Gary Winfield Milton, Seattle, Washington
Wallace Masayoshi Mitsui, Kapaa, Kauai, Hawaii
Gary Albert Morton, Salem
Ronald Gary Munkres, Redmond
Dennis Boyd Newton, Eugene
Donald Jugo Nitta, Kekaha, Kauai, Hawaii
Thurston Ohman, Portland
Monte Ray Olsen, Salem
Verda Mae Panasenko, Salem
Edwin Lee Parks, Monmouth
James Grover Patterson, Monmouth
John Wesley Patterson, Canyonville
Robert Roland Pennel, Swisshome
William Henry Peyer, Crane
Michael N. Reilly, Lake Grove
Patrick Lloyd Reilly, Stayton
Roy Allen Reimer, Dallas
Richard Vernon Rex, Salem
Randall Eugene Sanders, Eugene
Roger Paul Shafer, Salem
Travis Alva Sharp, Salem
B. J. Snitker, Salem
Rudolph Henry Sonnen, Aurora
Judith Kay Spence, Hubbard
Robert Allen Staples, Salem
Ernest Kenneth Teal, Salem
Richard Cronin Turnbull, Salem
John William Walker, Amity
Thomas William Walker, Molalla
James Edward West, Rockaway
Joseph James Whittow, Yamhill
William Peter Wiers, Lake Oswego
Tobias Lawrence Wolf, Woodburn

* Graduate with honors
Degree of Bachelor of Science

Junior High School

Wesley W. Luckau, Silverton
Theodore Edward Marr, Salem
Rodney Dean Schultz, Eugene

Norma Stewart Sohn, Madras
Marjorie Young Wynia, Independence

Degree of Bachelor of Science

General Studies

James Patrick Anderson, Lebanon
Fredrick John Barnes, Salem
Arthur A. Crowe, Salem
Edgar Allan Edwards, Toledo
Kraig Arthur Gately, Salem
Karl Richard Hellberg, Astoria
Richard William Hoyt, Monmouth

Don Lee Jacobsen, Salem
Duane Lewis Kent, Salem
Michael Edward Peccia, Portland
Fred Dee Price, Independence
Gary Lee Tipton, Milwaukie
Andrew Howard Ulven, Silverton

Degree of Bachelor of Arts

Elementary Education

Marcia Ann Barbo, Salem
Mara Jane Dunbar, Monmouth
Bonnie Lee Grenz, Salem
Ena Winown Kirk, Sitkum
Warren O. Nowowiejski, Beaverton

Sharon Lee Robertson, Amity
Susan Elaine Sorick, Salem
Wanda Faye Spurgeon, Monmouth
Anne Katherine Trenholme, Portland
Alicia Kay Winfrey, Swisshome

Degree of Bachelor of Arts

Secondary Education

Dana Eugene Benson, Salem
James Ernest Ferguson III, Salem

Bruce Linden Thompson, Monmouth
*Jean Ardith Yoder, Independence

Degree of Bachelor of Arts

General Studies

Richard M. Bailey, Sherwood
Judith Lynn Branaugh, Monmouth

Dick Allen Unruh, Monmouth

* Graduate with honors
### Summary of Enrollment and Graduates, 1963-64

**Enrollment by Class, Regular Sessions, 1963-64**

<table>
<thead>
<tr>
<th>Class Type</th>
<th>Fall 1963</th>
<th>Winter 1964</th>
<th>Spring 1964</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>472</td>
<td>397</td>
<td>352</td>
</tr>
<tr>
<td>Sophomores</td>
<td>341</td>
<td>324</td>
<td>282</td>
</tr>
<tr>
<td>Juniors</td>
<td>235</td>
<td>227</td>
<td>228</td>
</tr>
<tr>
<td>Seniors</td>
<td>225</td>
<td>251</td>
<td>287</td>
</tr>
<tr>
<td>Graduate, part-time</td>
<td>60</td>
<td>31</td>
<td>54</td>
</tr>
<tr>
<td>Special</td>
<td>21</td>
<td>23</td>
<td>36</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1354</strong></td>
<td><strong>1253</strong></td>
<td><strong>1239</strong></td>
</tr>
</tbody>
</table>

### Cumulative Enrollment for Regular Sessions

**Distributed by Class, Sex, and Curriculum**

<table>
<thead>
<tr>
<th>Elementary</th>
<th>Jr H S</th>
<th>Secondary</th>
<th>Gen Studies</th>
<th>L. Division</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>W</td>
<td>M</td>
<td>W</td>
<td>M</td>
<td>W</td>
</tr>
<tr>
<td>Freshmen</td>
<td>25</td>
<td>164</td>
<td>4</td>
<td>7</td>
<td>111</td>
</tr>
<tr>
<td>Sophomores</td>
<td>30</td>
<td>137</td>
<td>14</td>
<td>5</td>
<td>94</td>
</tr>
<tr>
<td>Juniors</td>
<td>27</td>
<td>118</td>
<td>6</td>
<td>1</td>
<td>70</td>
</tr>
<tr>
<td>Seniors</td>
<td>23</td>
<td>105</td>
<td>5</td>
<td>2</td>
<td>79</td>
</tr>
<tr>
<td>Graduate,</td>
<td>39</td>
<td>35</td>
<td>0</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>part-time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special</td>
<td>8</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>152</strong></td>
<td><strong>576</strong></td>
<td><strong>29</strong></td>
<td><strong>15</strong></td>
<td><strong>397</strong></td>
</tr>
</tbody>
</table>

### Cumulative Enrollment for Summer, 1963

<table>
<thead>
<tr>
<th>Class Type</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate</td>
<td>139</td>
<td>121</td>
<td>260</td>
</tr>
<tr>
<td>Undergraduate Students</td>
<td>241</td>
<td>618</td>
<td>859</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>380</strong></td>
<td><strong>739</strong></td>
<td><strong>1119</strong></td>
</tr>
</tbody>
</table>

### Enrollment for Summer Session, 1963 and Regular Session, 1963-64

<table>
<thead>
<tr>
<th>Cumulative total</th>
<th>Men 1036</th>
<th>Women 1449</th>
<th>Total 2485</th>
</tr>
</thead>
</table>

### Summary of Degrees Conferred, 1963-64

<table>
<thead>
<tr>
<th>Degree Type</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.S. Degrees:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elementary Education</td>
<td>8</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>11</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Special Education</td>
<td>6</td>
<td>5</td>
<td>11</td>
</tr>
<tr>
<td>B.S. Degrees:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elementary Education</td>
<td>26</td>
<td>142</td>
<td>168</td>
</tr>
<tr>
<td>Junior High School</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>69</td>
<td>10</td>
<td>79</td>
</tr>
<tr>
<td>General Studies</td>
<td>13</td>
<td>0</td>
<td>13</td>
</tr>
<tr>
<td>B.A. Degrees:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elementary Education</td>
<td>1</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>General Studies</td>
<td>5</td>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td><strong>Total degrees conferred</strong></td>
<td><strong>140</strong></td>
<td><strong>176</strong></td>
<td><strong>316</strong></td>
</tr>
</tbody>
</table>
Oregon College of Education

Administrative Officers

CHARLES A. HOWARD, M.A., LL.D.----------------President Emeritus
LEONARD W. RICE, Ph.D.-----------------------------President
WALTER E. SNYDER, Ed.D.------------------------Dean of Instruction
ELLIS A. STEBBINS, B.A.--------------------------Dean of Administration
FLOYD B. ALBIN, Ed.D.-----------------------------Registrar
NEIL A. AMERMAN, B.S.-----------------------------Director of Dormitories
MARY I. CHAMPION, Ed.D.------------------------Associate Dean of Students
RONALD L. CHATHAM, Ph.D.-----------------------Director of Planning
ETTA MAE DETERING, B.S.----------------------Director of Administrative Services and Nursing, Health Service
JACK V. EDLING, Ph.D.-----------------------------Director, Teaching Research Division, OSSHE
RALPH A. FARROW, Ed.D.-------------------------Director, Ford Grant—Oregon Program
MARTHA H. HILL, B.S.-----------------------------Administrative Assistant to the President
DESSA D. HOFSTETTER, M.S.------------------------Librarian
WALLACE E. JOHNSON, M.S.-------------------------Director of Information
JACK D. MORTON, M.S.-----------------------------Dean of Students
CHARLES A. PAETH, JR., M.S.-----------------------Associate Dean of Students
THOMAS D. ROWLAND, Ed.D.------------------------Director, Division of Special Education and Rehabilitation
DONALD H. SEARING, M.D.-------------------------Director of Medical Services, Health Service
JOHN N. SPARKS, B.S.-----------------------------Director of Business Affairs
HENRY E. TETZ, M.S.-----------------------------Director of Student Teaching
A. KENNETH YOST, Ed.D.--------------------------Director of Educational Media

Faculty

HELEN BLODGETT ADDISON, M.S., Assistant Professor of Education; Supervisor of Teaching.

FLOYD BURNAP ALBIN, Ed.D., Professor of Education; Registrar; Director of Admissions.
B.A. (1932), Willamette University; M.A. (1940), University of Washington, Ed.D. (1951), University of Utah. At Oregon College of Education since 1948.

CHARLES ALLEN ALVA, Ed.D., Associate Professor of Humanities.
B.A. (1941), San Jose State College; M.A. (1948); Ed.D. (1960), Stanford University. At Oregon College of Education since 1964.

SYLVIA KAPLAN ALVA, M.A., Instructor in Physical Education.

NEIL ADRIAN AMERMAN, B.S., Instructor; Director of Dormitories.
B.S. (1937), University of Minnesota. At Oregon College of Education since 1962.
GERTRUDE JOANNE AMSPOKER, Ph.D., Assistant Professor of Social Science.  
B.A. (1942), Reed College; M.A. (1946), Radcliffe College; Ph.D. (1959), University of  
Minnesota. At Oregon College of Education since 1961.

SAMUEL KINGDON ANDERSON, Ph.D., Associate Professor of Social Science.  
B.A. (1947), M.A. (1953), University of Washington; Ph.D. (1960), Washington State  
University. At Oregon College of Education since 1959.

WILMA PEDEN ARENSMEIER, M.S., Assistant Professor of Education for the  
Deaf.  
B.S. (1958), M.S. (1964), Oregon College of Education. At Oregon College of Educa-  
tion since 1964.

FRANCES MATTINGLY ARMOUR, B.S., Assistant Professor; Assistant Librarian.  
B.A. (1931), Friends University, Wichita, Kansas; B.S. (1942), School of Library Serv-  
ices, Columbia University. At Oregon College of Education since 1953.

FORREST SANDUSKEY BAKER, Jr., B.A., Instructor in Economics.  

*ROBERT SAMUEL BAKER, M.A., Assistant Professor of Humanities.  
B.A. (1953), Pacific University; M.A. (1955), University of Chicago. At Oregon Col-  
lege of Education since 1957.

JAMES ALLAN BARNARD, B.S., Instructor in Mathematics.  

EUGENIA CERILLI BELDIN, M.A., Instructor in Social Science.  
B.A. (1952), University of Albany; M.A. (1954), Syracuse University. At Oregon Col-  
lege of Education since 1963.

HORACE OTIS BELDIN, Ph.D., Associate Professor of Education and Psychology.  
B.S. (1950), M.S. (1952), University of Oregon; Ph.D. (1960), Syracuse University.  
At Oregon College of Education since 1961.

JOHN EDWARD BELLAMY, Ph.D., Professor of Humanities.  
B.A. (1948), Indiana State Teachers College; M.A. (1951), Ph.D. (1954), University of  
Illinois. At Oregon College of Education since 1955.

MARTIN JULIAN BIRNBAUM, M.A., Instructor in Humanities.  
B.A. (1961), City College of New York; M.A. (1962), New York University. At Oregon  
College of Education since 1963.

RAY ARALYN BRODERSEN, Ph.D., Assistant Professor of Physical Sciences.  
B.A. (1953), Fresno State College; Ph.D. (1962), University of California, Berkeley. At  
Oregon College of Education since 1962.

DAVID SILIN BRODY, Ph.D., Professor of Psychology.  
B.S. (1952), M.A. (1956), Ph.D. (1952), University of Minnesota. At Oregon College  
of Education since 1955.

*ANNA BETH MILLER BROWN, M.A., Assistant Professor of Education.  
B.S. in Ed. (1957), Marylhurst College; M.A. (1958), Columbia University. At Oregon  
College of Education since 1960.

AUDREY GILL CALEF, M.A., Instructor in Science.  
B.A. (1935), Colorado College; M.A. (1937), Mills College. At Oregon College of Edu-  
cation Spring term 1947 and since 1956.

TERESA CONSTANCE CAMINITI, M.S., Instructor in Humanities.  
B.A. (1963), Manhattanville College, N. Y.; M.S. (1964), University of Arizona. At  
Oregon College of Education since 1964.

NANCY FERGUSON CANON, M.S., Instructor in Education; Supervisor of Teach-  
ing.  
B.S. (1961), M.S. (1964), Oregon College of Education. At Oregon College of Education  
since 1964.

*MARY JOSEPHINE CARR, M.A., Assistant Professor of Education for the Deaf.
B.A. (1938), Oklahoma College for Women; Diploma (1942), Teacher Education Department of Clarke School for Deaf, Northampton; M.A. (1951), State University of Iowa, Iowa City. At Oregon College of Education since 1962.

HAL DICK CHAMBERS, M.A., and M.F.A., Assistant Professor of Art Education.

JOAN ARBUTHNOT CHAMBERS, B.A. in Ed., Instructor in Education; Supervisor of Teaching.

MARY ISABEL CHAMPION, Ed.D., Associate Professor; Associate Dean of Students.

MILTON ROSS CHARLES, Jr., Ph.D., Professor of Social Science.
B.A. (1939), University of California at Los Angeles; B.D. (1943), Garrett Biblical Institute, Northwestern University; M.A. (1946), Ph.D. (1953), Stanford University. At Oregon College of Education since 1955.

RONALD LEWIS CHATHAM, Ph.D., Associate Professor of Social Science; Director of Planning.

HARLAN DON CONKEY, Ed.D., Associate Professor of Audiology.

*DAVID COOPER, Ed.D., Assistant Professor of Humanities and Education.
B.S. in S.S. (1942), City College of New York; M.S. in Ed. (1949), School of Education, City College of New York; Ed.D. (1963), Stanford University. At Oregon College of Education since 1960.

CLIFFORD LEE CORLEY, Ed.D., Professor of Education.

HELEN BARNES CRAIG, M.A., Instructor in Humanities.

WILLIAM NEWTON CRAIG, Ph.D., Assistant Professor of Education for the Deaf.

WILLIAM KENNETH CROZIER, Jr., M.F.A., Assistant Professor of Art Education.

RUTH PEARSON CULBERTSON, M.A., Assistant Professor of Art.

ERNIE LEE CUMMINS, Ed.D., Associate Professor of Physical Sciences and Science Education.

JOSEPH KENNETH CUMMISKEY, Ph.D., Associate Professor of Physical Education.
B.S. (1952), Springfield College, Massachusetts; M.Ed. (1953), Oregon State University; Ph.D. (1962), Stanford. At Oregon College of Education since 1953.

JANE CATHERINE DALE, Ph.D., Professor of Humanities.
B.A. (1938), M.A. (1939), University of Wisconsin; Ph.D. (1954), University of Colorado. At Oregon College of Education since 1939.

JOHN HARVARD DAVIS, B.S., Instructor in Humanities.
B.S. (1956), University of Oregon. At Oregon College of Education since 1964.

*LEONA TODD DAVIS, M.S., Assistant Professor of Biology.

RICHARD ANTHONY DAVIS, M.A., Instructor in Humanities.

ETTA MAE WELLS DETERING, B.S., Instructor; Director of Administrative Services and Nursing, Health Service.
R.N. (1931), Salem General Hospital School of Nursing; Ph.N. (1939), University of Oregon School of Nursing; B.S. (1957), Oregon State College. At Oregon College of Education since 1963.

BEVERLY KAY DICK, B.A., Instructor in Education; Supervisor of Teaching.
B.A. (1953), Humboldt State College, Arcata, California. At Oregon College of Education since 1962.

MABEL EWALT DOBBS, M.M., Instructor in Music.

ERHARD KARL DORTMUND, M.A., Assistant Professor of Social Science.

EDNA RACHEL DOUGHTY, M.M.Ed., Instructor in Education; Supervisor of Teaching.
B.A. (1939), Tarkio College, Missouri; M.M.Ed. (1947), University of Colorado. At Oregon College of Education since 1964.

EILEEN JOAN ENSTAD, M.S., Instructor in Education; Supervisor of Teaching.

†HENRY KENT FARLEY, Ed.D., Professor of Education.
B.S. (1927), M.A. (1932), University of Missouri; Ed.D. (1949), University of Southern California. At Oregon College of Education since 1947.

RALPH ARTHUR FARROW, Ed.D., Associate Professor of Education.

ROSS LAVERNE FLOYD, M.S., Assistant Professor of Physics and Mathematics.

CAROLINE MARGARET STEWART FULLERTON, M.S., Assistant Professor of Education and Psychology.

ALLEN LEE FULLMER, M.S., Assistant Professor of Physics and Mathematics.

JESSE HOWARD GARRISON, Ed.D., Professor of Education.

† Sabatical Leave Fall Quarter 1964.
MELVIN HENRY GEIST, M.M., Associate Professor of Music.
B.M. (1929), University of Kansas, Lawrence; M.M. (1938), University of Michigan. At Oregon College of Education since 1964.

DONALD EDWARD GILES, M.A., Assistant Professor of Biology.

ALICE EBBERT GLASGOW, B.A., Instructor in Music.

ROBERT BYRON GLASGOW, Ed.D., Assistant Professor of Music.

ARTHUR HUGH GLOGAU, Ph.D., Associate Professor of Education and Psychology.

BERYL MANSFIELD GREEN, M.S., Assistant Professor of Mathematics.

PAUL FRANCIS GRIFFIN, Ph.D., Professor of Geography.

*ALFRED PHILIP HALLSTROM, M.S., Instructor in Mathematics.

*LLOYD THEODORE HANSON, M.A., Assistant Professor of Humanities.

GEORGE JASPER HARDING, M.A., Assistant Professor of Speech and Drama.

DONALD ARLO HELWIG, B.S., Instructor in Education; Supervisor of Teaching.

LELAND ELMER HESS, M.A., Assistant Professor of Social Science.
B.A. (1938), Ripon College; M.A. (1940), University of Chicago. At Oregon College of Education since 1956.

MARGARET LOUISE HIATT, Ed.D., Professor of Education.

*VERN DONALD HIEBERT, M.S., Assistant Professor of Mathematics.
B.A. (1952), Willamette University; M.S. (1959), University of Illinois. At Oregon College of Education since 1959.

HOWARD CLINTON HILL, M.A., Instructor; Catalog Librarian.

MARTHA HELEN HILL, B.S., Assistant Professor; Administrative Assistant to the President.
Diploma (1929), Oregon College of Education; B.S. (1932), Oregon State College. At Oregon College of Education since 1945.

DESSA DEVIN HOFSTETTER, M.S., Associate Professor of Humanities; Librarian.
B.A. (1934), University of Oregon; Certificate of Librarianship (1935), University of California; M.S. (1957), School of Library Service, Columbia University. At Oregon College of Education since 1941.

JOHN MORTON HOWARD, Ed.D., Associate Professor of Education.

GARY LIDDLE HUXFORD, Ph.D., Assistant Professor of Social Science.

PAULA RAFF HYATT, B.S., Instructor in Physical Education.
B.S. (1946), State University of Iowa. At Oregon College of Education since 1963.

MAJDUDDIN MOHAMMED JAFFER, M.S.E., Assistant Professor of Physical Sciences.
B.S. (1943), Osmania University, India; B.S.Ch.E. (1950), University of Michigan; M.S.E. (1951), University of North Dakota. At Oregon College of Education since 1958.

CHARLES WILFORD JOHNSON, M.S., Assistant Professor of Social Science.
B.Ed. (1938), Illinois State Normal University; M.S. (1948), University of Wisconsin. At Oregon College of Education since 1961.

WALLACE EARLE JOHNSON, M.S., Assistant Professor of Humanities; Director of Information.

ARLEY DUANE JONISH, M.A., Instructor; Reference Librarian.

THELMAL OFSTEAD JONISH, B.S., Instructor; CES Librarian.

STANLEY JAY KENYON, M.S., Instructor; Assistant Registrar; Admissions Officer.

DOROTHY MARIE KIRBY, M.A., Assistant Professor of Humanities.

LEO JAMES KIRK, M.A., Assistant Professor of Art Education.

JONATHON ELMER KNAUFP, M.A., Instructor in Science and Mathematics.

MATTHEW JAMES KRAUS, Jr., Ph.D., Assistant Professor of Education and Psychology.

LOUISE HENDERSON KREY, M.A., Assistant Professor of Physical Education.
B.A. (1935), Louisiana State University; B.S. in L.S. (1936), Louisiana State University. School of Library Science; M.A. (1952), University of Oregon. At Oregon College of Education 1952-53 and since 1953.

DELRAY JACOB KRER, B.S., Instructor in Education.
B.S. (1957), Oregon College of Education. At Oregon College of Education since 1963.

RUTH ELIZABETH LAUTENBACH, Ed.D., Professor of Physical Education.
B.S. (1930), M.A. (1931), University of Iowa; Ed.D. (1957), University of Colorado. At Oregon College of Education since 1940.

MARVIN HERMAN LIESKE, M.S., Assistant Professor of Social Science.
ROBERT CLARENCE LIVINGSTON, Ed.D., Professor of Physical Education.  

BOYDE LONG, M.S., Instructor in Physical Education.  

DUANE RUBEN LOPPNOW, M.S., Instructor in Art.  

REGINALD IVAN LOVELL, Ph.D., Associate Professor of History.  
B.A. (1923), University of London; A.M. (1925), University of Michigan; Ph.D. (1932), Harvard University. At Oregon College of Education since 1964.

MAY FOLSOM LUCAS, M.S., Assistant Professor of Education.  

*JAMES ELTON MARBLE, M.A., Instructor in Humanities.  

WILLIAM DEAN McARTHUR, Ed.D., Professor of Physical Education.  
B.A. (1941), Santa Barbara College; M.S. (1942), University of Oregon; Ed.D. (1956), Oregon State University. At Oregon College of Education since 1947.

DAVID VERNON MCCORKLE, M.S., Instructor in Biology.  

ROBERT PATRICK MCLoughL, M.A., Assistant Professor of Physical Education.  

WARD TINKER MELENDY, M.A., Assistant Professor of Education; Principal, Campus Elementary School.  

FRANK G. MILES, M.Ed., Assistant Professor of Education.  
A.B. (1954), Brigham Young University, Provo, Utah; M.Ed. (1963), University of Oregon. At Oregon College of Education since 1963.

MARIAN MARGARET MILLER, B.S., Assistant Professor of Physical Education.  

LUCILLE NAVARE MILLSAP, Ed.D., Associate Professor of Education.  

Ewan Harbrecht Mitton, Instructor in Music.  
Private study with Ruth Miller; Chamber, Los Angeles; Grace Leslie, New York; Lina Pagliughi, Milan; Mme. Gall, Paris; Maggie Tyte, London; Opera under Carl Elbert, Roberto Moranzoni; Tanglewood Festival; Professional experience includes Los Angeles Opera, New England Opera, featured soloist with Salt Lake Tabernacle Choir, national tours under Columbia Artist management. At Oregon College of Education since 1962.

JACK DONALD MORTON, M.S., Assistant Professor; Dean of Students.  
B.S. (1948), University of Oregon; M.S. (1957), Oregon College of Education. At Oregon College of Education since 1955.

HELEN KIEFT MULDER, B.S., Instructor in Education; Supervisor of Teaching.  
B.S. (1943), Western Michigan University, Kalamazoo. At Oregon College of Education since 1963.

ROBERT LEONARD MULDER, Ph.D., Professor of Speech Pathology; Director, Western Oregon Cooperative Speech and Hearing Center.  

FREDERICK JOHN NORMAN, M.A., Instructor in Humanities.  

CHARLES JAY NOXON, Ed.D., Associate Professor of Social Science.  
B.S. (1937), New York State College for Teachers; M.S. (1941), Syracuse University; Ed.D. (1963), University of Virginia, Charlottesville. At Oregon College of Education since 1946.

ROBERT G. OGAN, M.S., Instructor in Education; Supervisor of Teaching.  
B.A. (1955), Nebraska State College, Wayne; M.S. (1956), University of Omaha. At Oregon College of Education since 1964.

THOMAS NEILL OLMSTEAD, M.A., Assistant Professor of Humanities.  

ANNE WILLING OVERMAN, M.Ed., Instructor; Field Coordinator for Sophomore Block.  

CHARLES AUGUST PAETH, Jr., M.S., Assistant Professor; Associate Dean of Students.  

BETTY LOU PHILLIPS, M.A., Assistant Professor of Education for the Deaf.  

CHARLES JAMES PHILLIPS, M.A., Instructor in Mathematics.  

ANTON POSTL, Ph.D., Professor of Physical Sciences.  
B.S. (1940), M.S. (1942), University of Hawaii; Ph.D. (1955), Oregon State University. At Oregon College of Education since 1947.

JEAN W. POTTs, B.A., Instructor in Humanities.  
B.A. (1929), Willamette University. At Oregon College of Education since 1964.

DONALD LEROY PRATTON, M.A., Assistant Professor of Social Science.  

HELEN MARIE REDBIRD, Ed.D., Associate Professor of Education; Supervisor of Teaching.  

DENISE MURRAY REDDEN, M.A., Associate Professor of Music.  

LEONARD WILLIAM RICE, Ph.D., Professor; President.  
B.A. (1941), Brigham Young University; M.A. (1943), Ph.D. (1950), University of Washington. At Oregon College of Education since August 1962.

MONTANA HOPKINS RICKARDS, M.Ed., Assistant Professor of Humanities and Education.  

*ALAN RUSSELL ROBB, M.A., Assistant Professor of Humanities.  
A.A. (1938), Pasadena Junior College; Diploma (1943), Central School of Speech, London; B.A. (1948), Santa Barbara College; Diploma (1948), University of Florence, Italy; M.A. (1951), University of Minnesota. At Oregon College of Education since 1965.

DONALD BRUCE ROBERTSON, M.A., Instructor in Social Science.

THOMAS DAVID ROWLAND, Ed.D., Associate Professor of Education; Director, Division of Special Education and Rehabilitation.

STANLEY VAN RUCKMAN, M.A., Assistant Professor of Education; Supervisor of Teaching.
B.A. (1939), West Liberty State College, West Virginia; M.A. (1945), Western Reserve University. At Oregon College of Education since 1948.

SANDRA RITTER SCHULZE, M.S., Instructor in Education; Supervisor of Teaching.

JEANNETTE MARY SCOTT, M.M., in Mus. Ed., Assistant Professor of Music Education.
B.A. (1957), Willamette University; B.M. (1956), Wisconsin Conservatory, Milwaukee; M.M. in Mus. Ed. (1943), University of Southern California at Los Angeles. At Oregon College of Education since 1960.

LOREN LEWIS SCOTT, M.S., Instructor in Education; Coordinator of Field Services.

DONALD HOWARD SEARING, M.D., Assistant Professor; Director of Medical Services, Health Services.
B.S. (1929), College of Puget Sound; M.D. (1934), University of Oregon Medical School. At Oregon College of Education since 1936.

CLAUDE EDWARD SMITH, M.S., Assistant Professor of Education; Director of Audio-Visual Services.

EDGAR HERBERT SMITH, Ph.D., Professor of Music.
B.A. (1935), State University of New York; M.Ed. (1943), Temple University, Pennsylvania; Ph.D. (1952), New York University. At Oregon College of Education since 1954.

JEAN COUNTRYMAN SMITH, B.S., Instructor in Biology.
B.S. (1943), Oregon State University. At Oregon College of Education since 1958.

VICTOR CLYDE SMITH, Ph.D., Instructor in Photography.

WALTER EDWARD SNYDER, Ed.D., Professor of Education; Dean of Instruction.
B.S. (1925), Oregon State University; M.S. (1938), Ed.D. (1951), University of Oregon. At Oregon College of Education since 1956.

JOHN NATHAN SPARKS, B.S., Assistant Professor of Accounting; Director of Business Affairs.
B.S. (1947), University of Oregon. At Oregon College of Education since 1960.

ELLIS ARNOLD STEBBINS, B.A., Professor; Dean of Administration.
B.A. (1924), Pacific University. At Oregon College of Education since 1928.

MARGARET LILLIAN STEINER, B.S., Assistant Professor; Associate Librarian.
B.A. (1931), Willamette University; B.S. in Library Science (1938), University of Illinois, Library School. At Oregon College of Education since 1947.

RUTH GRIFFITH STUMP, B.A., Instructor in Humanities.
B.A. (1928), University of Oregon. At Oregon College of Education since 1955.
LEONARD ELVA TABOR, M.S., Assistant Professor of Education; Supervisor of Teaching.

HENRY EVERETT TETZ, M.S., Assistant Professor of Education; Director of Student Teaching.
B.S. (1925), M.S. (1937), University of Oregon. At Oregon College of Education since 1957.

BERNICE LUTHRO THAYER, B.S., Instructor in Education; Supervisor of Teaching.
B.S. (1951), University of Alaska, College. At Oregon College of Education since 1963.

MATTHEW ROY THOMPSON, Ed.D., Professor of Mathematics.

JAY BEVERLY VANDERFORD, Jr., B.A., Instructor in Social Science and Institutional Research.

SALLY ANN WAGNER, M.S., Instructor in Biology.

VIRGINIA SWASEY WALES, M.S. in Ed., Assistant Professor of Education and Psychology.
B.A. (1941), Lewis and Clark College; M.S. in Ed. (1961), Wheelock College, Boston. At Oregon College of Education since 1964.

KENNETH MERRIAM WALKER, Ph.D., Associate Professor of Biology.

DAVID EDWARD WALLACE, Ph.D., Associate Professor of Music Education.

MAXINE AMMER WARNATH, M.A., Assistant Professor of Education and Psychology.

ARTHUR KENNETH YOST, Ed.D., Professor of Education; Director of Educational Media.

MINNIE HUBBARD ANDREWS, Placement and Alumni Secretary.
At Oregon College of Education since 1946.

FAY JOHNSON GIRARD, Assistant Registrar.
At Oregon College of Education since 1927.

N. ERNEST GRESHAM, Superintendent of Buildings and Grounds.
At Oregon College of Education since 1961.

MARIE LINEHAN MILLER, Administrative Assistant, Business Office.
At Oregon College of Education since 1927.

NOTE: Since the general catalog is published before the faculty assignments have all been made for the 1965-66 school year, the official faculty list for the Fall quarter of the 1964-65 school year is shown in this catalog. Where possible, however, recently awarded degrees are shown. Included in this list are both full-time and part-time faculty.
Emeritus Faculty

OSCAR CARL CHRISTENSEN, M.S., Associate Professor Emeritus of Social Science.
At Oregon College of Education from 1925 to 1964.

MARY AGNES DONALDSON, M.A., Associate Professor Emeritus of Education.
At Oregon College of Education from 1921 to 1962.

FRANCIS D. HAINES, Ph.D., Professor Emeritus of Social Science.
At Oregon College of Education from 1951 to 1964.

PEARL BIRCH HEATH, M.S., Professor Emeritus of Art.
At Oregon College of Education from 1927 to 1963.

EMMA FRANCIS HENKLE, M.A., Associate Professor Emeritus of Education.
At Oregon College of Education 1922-29 and 1932-57.

CHARLES ABNER HOWARD, M.A., LL.D., President Emeritus.
At Oregon College of Education from 1939 to 1947.

FLORENCE WHITE HUTCHINSON, M.S., Associate Professor Emeritus of Music.
At Oregon College of Education from 1929 to 1961.

OMABELLE EMMONS McBEE, M.S., Associate Professor Emeritus of Education.
At Oregon College of Education from 1922 to 1959.

CHARLES RAYMOND MCCURRY, Ph.D., Professor Emeritus of Humanities.
At Oregon College of Education from 1952 to 1964.

EDNA MINGUS, M.A., Associate Professor Emeritus of English.
At Oregon College of Education from 1919 to 1948.

EDITH LORETTA OLSON, B.S., Assistant Professor Emeritus of Health.
At Oregon College of Education from 1952 to 1963.

IDA MAE SMITH, M.A., Assistant Professor Emeritus of Education.
At Oregon College of Education 1918-24 and 1927-47.

CLARA VAUGHN THOMPSON, B.S., Assistant Professor Emeritus.
At Oregon College of Education 1930-34 and 1953-61.

HENRIETTA B. WOLFFER, M.S., Associate Professor Emeritus of Education.
At Oregon College of Education from 1925 to 1961.

LOUISE WOODRUFF, M.A., Assistant Professor Emeritus of Music.
At Oregon College of Education from 1946 to 1947.

Teaching Research Division Faculty

JAMES H. BEARD, Associate Research Professor.

LESTER F. BECK, Research Professor.
Ph.D. Brown University, 1933. OSSHE since 1956.

JACK H. BOND, Research Assistant.

PAUL DAWSON, Research Assistant.

WAYNE R. DRALLE, Assistant Research Professor.

JACK V. EDLING, Research Professor.
Ph.D. University of Nebraska, 1955. OSSHE since 1955.
ASSOCIATE FACULTY

WILLIAM H. FRYBACK, Assistant Research Professor.
M.A. University of Kansas City, 1950. OSSHE since 1962.

DALE D. HAMREUS, Assistant Research Professor.

KEITH JACKSON, Business Manager.

BERT Y. KERSH, Research Professor, Associate Director of Teaching Research Division.
Ph.D. University of California, 1955. OSSHE since 1960.

JOHN W. LOUGHABY, Associate Research Professor.

VICTOR E. LUND, Assistant Research Professor.

CASPER F. PAULSON, JR., Assistant Professor of Research.

JAMES PAULSON, Research Assistant.

BENJAMIN P. PURVIS, Research Assistant.

RICHARD S. SCOTT, Assistant Research Professor.

PAUL A. TWEJKER, Assistant Research Professor.

Associate Faculty

(Off-Campus Supervisors of Secondary Student Teachers and Interns)

LOIS ALSOP, Walker Junior High School, Salem
VICTOR BACKLUND, North Salem High School, Salem
BRUCE BARKER, North Salem High School, Salem
CARMELITA BARQUIST, South Salem High School, Salem
MILLARD BATES, Parrish Junior High School, Salem
JOE BENNINGHOFF, South Salem High School, Salem
BRUCE BOATMAN, Parrish Junior High School, Salem
JAMES BOESBERRY, North Salem High School, Salem
MARVIN BRENNEMAN, Dallas Junior High School, Dallas
KENNETH BROPHY, North Salem High School, Salem
EUGENE BROWN, Henry Hill Junior High School, Independence-Monmouth
NEIL BROWN, Vice Principal, South Salem High School, Salem
GARY BURCH, South Salem High School, Salem
MARGARET BURROUGHS, South Salem High School, Salem
TED BUSSELL, Principal, Dallas Junior High School, Dallas
CHARLES CAMPBELL, Principal, Junior High School, Woodburn
BOB CANTONWINE, Dallas High School, Dallas
E. A. CARLETON, Principal, North Salem High School, Salem
ESTHER CARLSON, Judson Junior High School, Salem
ART CHRISTIANSEN, South Salem High School, Salem
THELMA CLEMENT, Waldo Junior High School, Salem
GLEN COLLINS, Parrish Junior High School, Salem
ROBERT COLLINS, Walker Junior High School, Salem
WRIGHT COWGER, Principal, Stayton Union High School, Stayton
ROGER DANIELSON, Stayton Union High School, Stayton
LILLIAN DAVIS, South Salem High School, Salem
LOUIS DELORETTO, South Salem High School, Salem
W. R. DICKSON, North Salem High School, Salem
FRANCES DIX, Leslie Junior High School, Salem
GRACE DIXON, Dallas Junior High School, Dallas
ED DOUGHERTY, Waldo Junior High School, Salem
ROBERT DOW, Principal, Waldo Junior High School, Salem
KAY ELLING, Leslie Junior High School, Salem
ALICE ETSEL, Cascade High School, Turner
DON FINERAN, Leslie Junior High School, Salem
BRUCE FLAMING, Dallas Junior High School, Dallas
HALLIE GALE, Parrish Junior High School, Salem
NORMAN GARDNER, North Salem High School, Salem
CHARLES GELBAKER, Senior High School, Lake Oswego
LEWELL P. GILHAM, Parrish Junior High School, Salem
CHESTER GILLHAM, Vice Principal, Senior High School, Lake Oswego
IRA GODDARD, Waldo Junior High School, Salem
ISABEL GOODNOUGH, North Salem High School, Salem
FRED GRAHAM, Superintendent, Stayton Union High School, Stayton
LYDIA GRAHAM, Waldo Junior High School, Salem
ROBERT HALSTEAD, Principal, Dallas High School, Dallas
LIDA HALVORSEN, South Salem High School, Salem
BRUCE HAMILTON, Principal, Henry Hill Junior High School, Independence-Monmouth
EARL HAMPTON, Principal, Jjudson Junior High School, Salem
FRED HARGARD, Waldo Junior High School, Salem
JOHN HEPLER, Leslie Junior High School, Salem
GENEVIEVE HERRINGTON, Central High School, Independence-Monmouth
ELDON HILLSTROM, North Salem High School, Salem
LEAH HOGUE, South Salem High School, Salem
BELVA HOISINGTON, Dallas Junior High School, Dallas
THOMAS HOLMAN, Principal, Memorial Junior High, Albany
ARLIE HOLT, Dallas High School, Dallas
CAROLYN JONES HOWELLS, Dallas High School, Dallas
LYDIA ISOM, Parrish Junior High School, Salem
HERBERT JOHNSRUD, North Salem High School, Salem
BARBARA KAHN, Henry Hill Junior High School, Independence-Monmouth
STANLEY KERZEL, Waldo Junior High School, Salem
FRANCIS KETTERSON, Dallas Junior High School, Dallas
RAY KLAPPENBACH, Superintendent of Schools, Dallas
MILDRED KLINEVER, DALLAS HIGH SCHOOL, Dallas
GLENN KNIGHT, Dallas High School, Dallas
FLORENCE KRON, Parrish Junior High School, Salem
GOLDWYN KULBEE, South Salem High School, Salem
JOHN LAFOUNTAINE, Dallas Junior High School, Dallas
HENRY LANDIS, Waldo Junior High School, Salem
JAMES LEHAN, Leslie Junior High School, Salem
ALBERT LEOPOLD, South Salem High School, Salem
MARGARET LEWIS, Parrish Junior High School, Salem
IONE MACNAMARA, Jjudson Junior High School, Salem
LYLE MASON, South Salem High School, Salem
JAMES MCANALLY, Dallas High School, Dallas
ASSOCIATE FACULTY

EDNA MCCLEARY, Dallas Junior High School, Dallas
MARY McCONNEL, Parrish Junior High School, Salem
MAX McKINNEY, Principal, Highland View Junior High School, Corvallis
DAVID MCWILLIAMS, Memorial Junior High School, Albany
CLARENCE MELBYE, Principal, Central High School, Independence-Monmouth
ROBERT METZGER, South Salem High School, Salem
LORAAINE MEUSEY, North Salem High School, Salem
BYRON MEURLOTT, Vice Principal, Junior High School, Lake Oswego
DARWIN MICHAELS, Dallas High School, Dallas
ADRIAN MILLER, Walker Junior High School, Salem
COLIN MORESE, North Salem High School, Salem
KEVIN MORSE, South Salem High School, Salem
CHARLES MORT, Principal, Leslie Junior High School, Salem
RAY MORT, North Salem High School, Salem
PETER MURRAY, North Salem High School, Salem
TERRY MURRAY, Dallas High School, Dallas
SCHOLASTICA MURTY, Senior High School, Lake Oswego
CARL NEBEL, South Salem High School, Salem
MARY B. NOLAND, Judson Junior High School, Salem
DOROTHY PATCH, North Salem High School, Salem
MARGARET PIERCE, Leslie Junior High School, Salem
MARIAN PUTNAM, North Salem High School, Salem
FRANK RICHARDS, Dallas High School, Dallas
LORENE RIERSON, Junior High School, Lake Oswego
BILL RITCHIE, South Salem High School, Salem
GARY RITCHIE, South Salem High School, Salem
ELEANOR ROBERTS, Judson Junior High School, Salem
DON ROBERTSON, Senior High School, Lake Oswego
D WIGHT RUNNER, North Salem High School, Salem
ELTON SALISBURY, Dallas High School, Dallas
ALF SATHER, Leslie Junior High School, Salem
DON SCHAEFFER, North Salem High School, Salem
RUBEN SCHELENBERG, Dallas Junior High School, Dallas
MARYLN SEA, North Salem High School, Salem
WILLIAM SEELEY, Principal, Parrish Junior High School, Salem
PAUL SHAFFER, Walker Junior High School, Salem
WILLIAM SHAW, North Salem High School, Salem
JEROME SHEPARD, Waldo Junior High School, Salem
JAN SHIDLER, Parrish Junior High School, Salem
BERT SIMMONS, Stayton Union High School, Stayton
MARGARET SIMMS, North Salem High School, Salem
DORIS SIX, South Salem High School, Salem
EDWARD SNYDER, North Salem High School, Salem
PERRY SPEILRINK, South Salem High School, Salem
DENNIS SPENCER, Dallas High School, Dallas
FRED STAAB, Dallas High School, Dallas
DON STENSLAND, Central High School, Independence-Monmouth
BRUCE STEWART, North Salem High School, Salem
GLEN SWEER, Dallas Junior High School, Dallas
KARL THELEN, Waldo Junior High School, Salem
GEORGE THOMPSON, Dallas Junior High School, Dallas
EVA VAN DEN BOSCH, Dallas Junior High School, Dallas
EMIL VEE, Waldo Junior High School, Salem
(Off-Campus Supervisors of Elementary Student Teachers and Interns)

JEAN ALLEGRE, North Gresham Elementary School, Gresham

IVA ANDERSON, Edwards School, Newberg

DAVID BARKER, Principal, Independence Elementary School, Independence

ROSIE BARNES, Washington School, Woodburn

WALTER BECK, Principal, Morningside School, Salem

FRANCES BELL, Waverly School, Albany

RITA BENEDICT, North Gresham Elementary School, Gresham

LUCILLE BERNDT, Morningside School, Salem

CAROLINE BLAKE, Principal, West Salem Elementary School, Salem

GENE BRADFORD, Brush College School, Salem

ART BRADLEY, Principal, Hayesville School, Salem

VERNE BUHLER, Edwards School, Newberg

PHYLLIS CARR, Forest Hills School, Lake Oswego

MAYNARD CHRISTENSEN, Principal, Forest Hills School, Lake Oswego

LORENA CLINE, Morningside School, Salem

MAURICE FLEISHMAN, Forest Hills School, Lake Oswego

ROSE FLORY, Candalaria Elementary School, Salem

GLADE FOLLIS, Principal, Washington School, Salem

LAJUANA GIBSON, Lyle School, Dallas

MATHILDA GILLIS, Principal, Richmond School, Salem

OPAL GRAHAM, Whitworth School, Dallas

RUD GROSHONG, Principal, Uplands School, Lake Oswego

MARGARET HARDING, Waverly School, Albany

AL HERAUF, Principal, Bush School, Salem

WILLA JOHNSTON, Morningside School, Salem

DICK KEMPER, Hayesville School, Salem

JAMES LOCKELL, Principal, Memorial School, McMinnville

MAURICE MACY, Whitworth School, Dallas

VINCENT MATT, Faye Wright School, Salem

DOYLE McAULIFFE, Principal, Mabel Rush School, Newberg

Dexter McCarthy, Principal, North Gresham Elementary School, Gresham

MELVIN McCUTCHEON, Principal, Whitworth School, Dallas

GLENN MICK, Principal, Salem Heights School, Salem

MARY MIDDLETON, Cummings School, Salem

DOROTHY MILLER, C. J. Tigard School, Tigard

DOROTHY MOHR, Keizer Elementary School, Salem

HARRY MOHR, JR., Principal, Faye Wright School, Salem

NAT MOORE, Assistant Superintendent, Lake Oswego

ARTHUR MYERS, Assistant Superintendent, Salem

CLIFFORD NEUFFELD, West Salem Elementary School, Salem

MEL PETERSON, Principal, Lyle School, Dallas

DALE PEYTON, West Salem Elementary School, Salem
— Donni Ramsbell, Bush School, Salem
Gordon Rand, Principal, Candalaria School, Salem
Lois Rand, Hoover Schools, Salem
Eileen Rollins, Forest Hills School, Lake Oswego
Vivian Strout, Principal, Cook School, McMinnville
Mabel Sumpter, Principal, Hoover School, Salem
Marilyn Swanson, Lake Grove School, Lake Oswego
Theima Tallent, Independence Elementary School, Independence
Mildred Thompson, Morningside School, Salem
Dorothy Thurlow, Uplands School, Lake Oswego
Francis Tresler, Monmouth Elementary School, Monmouth
Arnold Turnbull, Principal, Waverly School, Albany
Lucille Wardle, Washington School, Salem
Ladele Watt, Lake Grove School, Lake Oswego
Carmalite Weddle, Principal, John Kennedy School, Salem
Marilyn Wickert, Morningside School, Salem
Susan Wilson, Morningside School, Salem
Emma Wolfard, Keizer Elementary School, Salem
Marie Wood, McKinley School, Salem
James Wright, Principal, C. J. Tigard School, Tigard
Ione Yeo, Lyle School, Dallas
Alyce Yoshikai, Principal, Baker School, Salem
Dick Zahler, C. J. Tigard School, Tigard
INDEX

Academic Calendar ................................ 6-7
Academic Procedures and Regulations .......... 33
Accreditation ........................................ 9
Activities, Student ................................... 26
Administrative Officers of O.C.E. ............... 140
Admission Requirements ........................... 12
Advanced Standing .................................. 15
Agriculture .......................................... 64
Alumni Association .................................. 26
Architecture ........................................... 70
Art ...................................................... 55, 65, 93-95
Assemblies ............................................. 30
Athletics ................................................. 29
Awards .................................................. 30

Bachelor's Degree, Requirements for .......... 31
Biological Sciences .................................. 122
Biology ............................................... 65
Botany ................................................. 65, 123
Business Administration ........................... 65, 118
Business Administration and Technology ....... 66
Certificate, Requirements for ....................... 31
Certificate, Teaching ................................ 31
Chemistry ............................................. 66, 124
Concerts ................................................. 30
Cooperative Evening Program ...................... 81
Counseling ............................................ 105
Course Descriptions ................................ 93-135
Course Numbering System .......................... 34
Curricula, Graduate .................................. 85-91
Curricula, Undergraduate ........................... 37-74
General Studies .................................... 61
Honors Program ....................................... 37
Medical Technology .................................. 73
Preprofessional ....................................... 64
Teacher Education .................................... 37

Dads Club ............................................. 26
Deaf, Teaching the ................................... 88, 109
Degrees, Advanced .................................. 77
Degrees and Certificate ............................. 12, 31
Degrees Awarded, 1963-64 ......................... 135-138
Degrees, Awarding of ................................ 35
Degrees, Requirements for .......................... 31
Dentistry ................................................. 70
Dramatics ............................................. 30
Dropping a Course ................................... 34

English ............................................... 113
Education and Psychology ........................ 96-109
Counseling ............................................ 105

Education ............................................. 96-103
Educational Administration ...................... 106
Educational Media Specialist ..................... 106
Mental Retardation .................................. 108
Psychology ............................................ 104-105
Special Education ................................... 107
Speech Correction .................................... 108
Teaching the Deaf ................................... 109
Education ............................................. 96-103
Educational Administration ...................... 89, 106
Educational Media Specialist ..................... 91, 106
Elementary School Curriculum .................... 42
Employment .......................................... 23
Engineering .......................................... 66
English ............................................... 113
Enrollment and Graduates, Summary of 1963-64 .139
Expenses, Graduation ................................ 17
Expenses, Student .................................... 19
Extreme Learning Problems ....................... 87, 107
Facilities .............................................. 9
Faculty ............................................... 140-155
Associate .............................................. 151
Emeritus ............................................... 150
Teaching Research Div. ............................. 150
Fees and Deposits .................................... 15
Fee Refund ............................................. 17
Fees, Special ......................................... 16
Financial Aids ........................................ 19-23
Employment .......................................... 23
Loan Funds ............................................ 21
Scholarships ......................................... 19
Follow Up Services .................................. 26
Foreign Students ..................................... 15
Forestry ................................................. 66
Freshman Standing ................................... 14
General Information ................................ 9

General Science ..................................... 121
General Social Sciences ............................ 129
General Studies ..................................... 61
Geography ............................................. 131
Geology ................................................ 67, 125
Graduate Degree Programs ....................... 81-91
Graduate Study ...................................... 77-91
Curricula .............................................. 85-91
General Regulations ............................... 77-84
Objectives .......................................... 77

Health and Physical Education .................... 109
Health Requirements ................................ 13
Health Services, Student ............................ 25
History .................................................. 132
History and Location of O.C.E. ................. 9
Home Economics .................................... 67, 112
Honors Program .................................. 37
Humanities ...................................... 112-118
Business Administration ....................... 118
English ......................................... 113
Humanities, Philosophy and Religion ............ 114
Journalism ........................................ 115
Library Science .................................. 118
Modern Languages ................................ 115
Speech ............................................ 115
Writing ........................................... 112
Humanities, Philosophy and Religion .......... 114
Industrial-Arts Education ......................... 67
Internship ........................................ 41
Insurance, Accident and Sickness ............. 25
Intersession 1965 ................................ 75
Journalism ...................................... 67, 115
Junior High School Curricula ..................... 47
Kindergarten Curriculum .......................... 42
Law ................................................... 70
Liberal Arts and Sciences, Lower-Division ....... 63
Library Science .................................. 118
Living Accommodations ........................... 17
Loan Funds ........................................ 21
Master of Arts in Teaching ......................... 91
Master of Science in Education ................. 84-87
Master's Degree Programs ......................... 78, 84
Mathematics .................................... 68, 127
Medical Technology ................................ 73
Medicine .......................................... 71
Mental Retardation ............................... 88, 108
Microbiology .................................... 68
Modern Languages ................................ 115
Mothers Club ...................................... 26
Music .............................................. 54, 68, 119
New Student Week ................................ 25
Nursing ............................................ 72
Organizations, Student ............................ 27-30
Personnel, Student Program ....................... 24
Pharmacy .......................................... 72
Physical Education .............................. 68, 109
Home Economics .................................. 112
Physics ............................................ 69, 126
Placement ......................................... 25
Placement, Advanced Programs ................. 14
Placement Examinations ........................... 13
Political Science .................................. 134
Preprofessional Curricula ......................... 64-73
Provisionary Student .............................. 35
Psychology ......................................... 104-105
Publications ..................................... 29
Recreation ......................................... 29
Research, Teaching Div. .......................... 12
Scholarships ...................................... 19, 34
Science and Mathematics ......................... 121-129
Biological Sciences ................................ 122
Botany .............................................. 123
Chemistry ......................................... 124
General Science .................................. 121
Geology ............................................ 125
Mathematics ...................................... 127
Physics ............................................ 126
Zoology ............................................. 124
Senior High School Curricula .................... 49
Social Activities .................................. 27
Social Science ................................... 129-135
Economics ........................................ 130
General Social Science ......................... 129
Geography ....................................... 131
History ............................................ 132
Political Science .................................. 134
Sociology ......................................... 134
Special Education Programs ....................... 107-109
Teaching the Deaf ................................ 109
Extreme Learning Problems ....................... 107
Mental Retardation ................................ 108
Speech Correction ................................ 108
Specialized Programs ............................. 54-55
Music Education .................................. 54
Art Education ..................................... 55
Speech ............................................. 115
Speech Correction ................................ 88, 108
Sports .............................................. 29
State System of Higher Education ................ 3, 160
Student, New Week ................................ 25
Student Teaching and Internship, Admission to .... 40
Student Welfare .................................. 24
Summary of Enrollment and Graduates, 1963-64 ...... 139
Summer Session, 1965 ............................ 74
Teacher Education, Admission to ................ 40
Teacher Education, Levels of Preparation .......... 37-39
Art Education .................................... 39
Educational Specialist ............................ 39
General Elementary ................................ 38
Junior High School ............................... 38
Kindergarten ..................................... 38
Music Education .................................. 39
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education Program</td>
<td>39</td>
</tr>
<tr>
<td>Senior High School</td>
<td>39</td>
</tr>
<tr>
<td>Teacher Education Programs</td>
<td>42-49</td>
</tr>
<tr>
<td>Elementary School Curricula</td>
<td>42</td>
</tr>
<tr>
<td>Junior High School Curricula</td>
<td>47</td>
</tr>
<tr>
<td>Kindergarten Curricula</td>
<td>42</td>
</tr>
<tr>
<td>Senior High School Curricula</td>
<td>49</td>
</tr>
<tr>
<td>Teaching Minors</td>
<td>57-61</td>
</tr>
<tr>
<td>Advanced Mathematics</td>
<td>59</td>
</tr>
<tr>
<td>Art</td>
<td>57</td>
</tr>
<tr>
<td>Biology</td>
<td>60</td>
</tr>
<tr>
<td>Chemistry</td>
<td>60</td>
</tr>
<tr>
<td>Combined Language Arts,</td>
<td>58</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
</tr>
<tr>
<td>Elementary Algebra and Geometry</td>
<td>59</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>58</td>
</tr>
<tr>
<td>Library</td>
<td>61</td>
</tr>
<tr>
<td>Literature, Writing and Language</td>
<td>58</td>
</tr>
<tr>
<td>Music</td>
<td>60</td>
</tr>
<tr>
<td>Physical Education</td>
<td>57</td>
</tr>
<tr>
<td>Physical Science-General</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>60</td>
</tr>
<tr>
<td>Pre-Algebra and General</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>59</td>
</tr>
<tr>
<td>Social Science</td>
<td>61</td>
</tr>
<tr>
<td>Speech and Drama</td>
<td>59</td>
</tr>
<tr>
<td>Transfer Students</td>
<td>41</td>
</tr>
<tr>
<td>Unaccredited Institutions,</td>
<td></td>
</tr>
<tr>
<td>Credit from</td>
<td>15</td>
</tr>
<tr>
<td>Veterinary</td>
<td>73</td>
</tr>
<tr>
<td>Welfare, Student</td>
<td>24</td>
</tr>
<tr>
<td>Withdrawal from School</td>
<td>34</td>
</tr>
<tr>
<td>Workshops</td>
<td>75</td>
</tr>
<tr>
<td>Writing</td>
<td>112</td>
</tr>
<tr>
<td>Zoology</td>
<td>69, 124</td>
</tr>
</tbody>
</table>
Oregon State System of Higher Education

ROY E. LIEUALLY, Ed.D., L.H.D., Chancellor

ARTHUR S. FLEMMING, A.M., LL.D.
President, University of Oregon

JAMES H. JENSEN, Ph.D.
President, Oregon State University

DAVID W. E. BAIRD, M.D., LL.D.
Dean, Medical School

LEONARD W. RICE, Ph.D.
President, Oregon College of Education

HAROLD J. NOYES, D.D.S., M.D.
Dean, Dental School

ELMO N. STEVENSON, Ed.D.
President, Southern Oregon College

BRANFORD P. MILLAR, Ph.D.
President, Portland State College

AVERNO M. REMPEL, Ph.D.
President, Eastern Oregon College

WINSTON D. PURVINE, A.B., LL.D.
President, Oregon Technical Institute

RICHARD L. COLLINS, M.A., C.P.A.
Secretary, Board of Higher Education; Budget Director

HERBERT A. BORK, M.S., C.P.A.
Vice Chancellor for Business Affairs

MILES C. ROMNEY, Ph.D.
Vice Chancellor for Academic Affairs

JAMES W. SHERBURNE, Ph.D.
Vice Chancellor for Continuing Education

DONALD R. LARSON, B.A.
Assistant Chancellor; Director of Public Services

WILLIAM H. CARLSON, M.A.
Director of Libraries

JACK V. EDLING, Ph.D.
Director of Teaching Research

Former Chancellors

Oregon State System of Higher Education

WILLIAM J. KERR, D.Sc., LL.D.
1932-1935

FREDERICK M. HUNTER, Ed.D., LL.D.
1935-1946

PAUL C. PACKER, Ph.D., LL.D.
1946-1950

CHARLES D. BYRNE, Ed.D.
1950-1955

JOHN R. RICHARDS, Ph.D.
1955-1961