



Oregon State System
of Higher Education
BULLETIN

**Vanport
Extension Center**

PORTLAND • OREGON

**CATALOG
I S S U E**

1949-50

**oregon state system
of higher education**

bulletin

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***vanport
extension
center***

**CATALOG
1949-50**

Telephone: UNiversity 1605

Portland 3, Oregon

offering courses of

University of Oregon

Oregon State College

Oregon College of Education

Southern Oregon College of Education

Eastern Oregon College of Education

General Extension Division

table of contents

ACADEMIC CALENDAR	6
DEAN'S MESSAGE	8
FACULTY	9
GENERAL INFORMATION	15
ACADEMIC REGULATIONS	22
GROUP COURSES	27
RECOMMENDED COURSES FOR MAJOR FIELDS	29
FEES AND REFUNDS	40
DESCRIPTION OF COURSES	42
Agriculture	42
Anthropology	42
Art and Architecture	42
Astronomy	43
Biology	43
Botany	43
Business Administration	43
Chemistry	44
Clothing and Textiles	45
Drama	45
Economics	45
Education	45
Engineering	46
Chemical Engineering	46
Civil Engineering	46
Electrical Engineering	47
Industrial Engineering	47
Mechanical Engineering	48
English	48
Literature	48
Written English	49
Library	49
Foods and Nutrition	49
Foreign Languages	50
French	50
German	50
Spanish	50
Forestry	50
Geography	50

Geology	51
History	51
Home Economics	52
Clothing, Textiles, and Related Arts	52
Foods and Nutrition	52
Household Administration	52
Industrial Arts	52
Prejournalism	52
Library	53
Mathematics	53
Medical and Dental Assistantship	54
Music	54
Nursing Education	55
Nutrition	55
Physical Education	55
Service Courses	55
Professional Courses	55
Physics	56
Political Science	56
Psychology	56
Public Speaking	57
Rhetoric	57
Science	57
Secretarial Science	57
Social Science	58
Sociology	58
Speech	58
Zoology	59
EXTENSION	61
OREGON STATE BOARD OF HIGHER EDUCATION	69
ADMINISTRATIVE OFFICERS	70
OREGON STATE SYSTEM OF HIGHER EDUCATION	73

vanport extension center

1949

September

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
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October

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30	31					

November

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27	28	29	30			

December

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25	26	27	28	29	30	31

January—1950

S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Academic Calendar

Fall Term 1949-50

September 19, *Monday*

Placement examinations for new students.

September 20, *Tuesday*

Advisement for new students.

September 21-24, *Wednesday to Saturday*

Freshman Week and registration.

September 26, *Monday*

Classes begin.

October 8, *Saturday*

Last day for new registrations, for addition of new courses, or for dropping of courses without being responsible for grades.

November 21, *Monday*

Last day for withdrawing from college without being responsible for grades.

November 24-27, *Thursday to Sunday*

Thanksgiving recess.

December 14, *Wednesday*

Classes end.

December 15-20, *Thursday to Tuesday*

Final examinations.

December 20, *Tuesday*

Fall Term ends.

Winter Term 1949-50

January 3-4, *Tuesday and Wednesday*

Registration.

January 5, *Thursday*

Classes begin.

January 14, *Saturday*

Last day for new registrations, for addition of new courses, or for dropping of courses without being responsible for grades.

February 20, *Monday*

Last day for withdrawing from college without being responsible for grades.

Vanport Extension Center

1950

March 13-18, *Monday to Saturday*

Final examinations.

March 18, *Saturday*

Winter Term ends.

March

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

Spring Term 1949-50

March 27-28, *Monday and Tuesday*

Registration.

March 29, *Wednesday*

Classes begin.

April

S	M	T	W	T	F	S
						1
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

April 8, *Saturday*

Last day for new registrations, for addition of new courses, or for dropping of courses without being responsible for grades.

May 15, *Monday*

Last day for withdrawing from college without being responsible for grades.

May

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

May 18, *Thursday*

Fourth Anniversary ceremonies.

May 30, *Tuesday*

Memorial Day, holiday.

June

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

June 5-10, *Monday to Saturday*

Final examinations.

June 10, *Saturday*

Spring Term ends.

July

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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Summer Session 1950

June 19, *Monday*

Registration.

August 11, *Friday*

Summer Session ends.

August

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

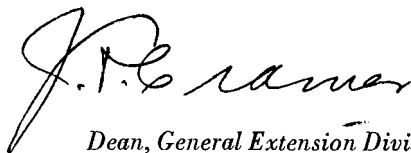
dean's message

The purpose of this book is to help those making decisions about which college to attend and what courses to take. For those who choose Vanport it is designed to aid them in beginning their college career, as well as to assist former students in continuing their work. Vanport offers two years of university and college level work. Now, more than ever, our state and nation need college-trained citizens. The Vanport Extension Center brings college opportunities to the largest metropolitan area in the state. Here high-school graduates may prepare themselves for better positions, to have a greater part in building the Northwest.

Vanport is a state-supported college program with low costs, where superior students, including many who otherwise could not afford a college education, may attend college and live at home. Studies have shown that a tax-supported college in a community greatly increases the number of capable high-school graduates in the area who may go on to college, not only from the lower economic groups but the higher income groups as well.

Excellent classrooms and laboratory equipment are provided, as well as library and recreational facilities. The Center's interest in the individual student reaches beyond the classroom to provide personal, educational, and vocational guidance.

The instructional program is integrated as much as possible with the cultural resources of the city of Portland to provide superior educational opportunities. The Center, through its educational program, strives to provide the students with the high-quality service which has long been the tradition of the institutions of the Oregon State System of Higher Education.

A handwritten signature in dark ink, appearing to read "J. P. Cramer". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Dean, General Extension Division

Vanport Extension Center

Oregon State System of Higher Education

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Chancellor, Oregon State System of Higher Education.

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* Died December 30, 1948.

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Bacheliere-es-Lettres (1914), Alencon.

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General Information

What Is the Vanport Extension Center?

The Center brings to Portland much of the first two years of college and university work offered by the State System through the University of Oregon, Oregon State College, and the colleges of education. Its purpose is to make available to those living in the Portland area the educational opportunities of the State System of Higher Education. The name Vanport is derived from Vancouver and Portland and was the name given to the wartime housing project located between these two cities on the Oregon side of the river. The campus was located in this housing project and remained there until May 1948, when the project and campus were destroyed by the Columbia River flood.

What are the Advantages of Attending Vanport?

The advantages vary for different students. To many students a center such as Vanport in their own community, where they can live at home, is the difference between attending and not attending college. The employment opportunities in a metropolitan area are an important factor to other students. The individual attention and the interest taken by the faculty in the students appeals to all students. Many parents like to have their children attend college and live at home until they reach greater maturity. Other students like living at home where they can continue being part of the same groups—church, club, and other organizations. The two-year feature appeals to those students who do not plan a four-year college course but desire courses useful for the profession they intend to follow. Other students like to test their college abilities and explore several fields of study before selecting a major for specialization in a four-year college or professional school.

Is Vanport a State School?

Yes, the school receives support from the state of Oregon and is under the supervision and control of the Oregon State Board of Higher Education. It is part of the General Extension Division which has the function of extending higher education throughout the state. The motto of the Division is "*The State is the Campus.*"

Is Vanport an Accredited School?

Yes, the courses taken at Vanport count as residence credit when transferred to the University of Oregon, Oregon State College, or the colleges of education. Students transferring to institutions of higher learning outside the state are eligible for the same credit had they attended any other state institution of higher learning in Oregon.

Is Vanport a Permanent or a Temporary Program?

The 1949 Oregon Legislature passed a law providing that the Center become a permanent lower-division extension center in Multnomah County. This was the result of the continuing need for the Center, which began in 1946 as a temporary program set up primarily to provide college and housing facilities for returning veterans. Each succeeding year the State Board authorized the continuance of the program for another year. The 1949 law makes such a center a permanent part of the Oregon State System of Higher Education.

What Fields and Courses are Offered at Vanport?

A wide range of fields is available to Vanport students. A student may take one year (in some cases two years) of work in many of the professional fields included in the Oregon State System offerings. The range of courses runs from algebra and art to typing and zoology. Professional fields include business administration, liberal arts, elementary education, pre-journalism, prelaw, science, social science, pre-engineering, preforestry, and prepharmacy. Students should refer to the explanation of specific courses in this book. Students who are not sure if work is offered in the field of their choice should write or call the Center office.

What Kind of a Campus Has Vanport?

The main building of the Center is the former administration building of the Oregon Shipbuilding Corporation, which has been remodeled to provide classrooms and laboratories. This modern building, erected in 1944, is an attractive, functional structure. Part of the physical education and athletics program is housed in near-by buildings. A parking lot on two sides of the building, built to accommodate tens of thousands of shipyard workers, is more than adequate. The facilities of metropolitan Portland have been drawn upon to complete the campus. Swimming classes use the Northeast Branch Y.M.C.A. pool, girls' physical education and varsity basketball have been held in the new modern gymnasium of the St. Johns

Community Center, and engineering shop classes have been held in Benson Polytechnic High School. Vanport concentrates on freshman and sophomore work, and its equipment is selected to fulfill this purpose. Since the flood, the generous cooperation of the Federal government through the Federal Works Agency has made it possible to secure a large part of the equipment needed by the institution.

When Will the Lincoln High School Building Be Used?

The 1949 Oregon Legislature passed a law appropriating money to purchase the Lincoln High School building at Broadway and Market streets. This building is now used by the Portland Extension Center for night classes but will not be used by the Vanport Extension Center until a new high school is built. It is hoped that the Vanport Center classes will begin in this building in the fall of 1951.

What About the Library?

The library is considered one of the most important parts of the Center, and the entire middle wing of the second floor is given over to it. The library regularly receives 170 periodicals. Its well-selected stock of books includes those most necessary to courses taught as well as the standard reference works. The student body is entitled to use the main Portland Public Library and its branches throughout Multnomah County and also has access to special collections such as that of the Oregon Historical Society. Books are secured as needed from other libraries of the State System and the State Library at Salem through interlibrary loans.

Is There an Athletics and Physical Education Program?

The Center athletics program includes the major sports, football, basketball, baseball, track, and wrestling, and minor sports such as golf, skiing, tennis, and swimming. Freshmen are permitted to play on varsity teams. After one or two years of participation, a student may transfer to a four-year college and be eligible to participate immediately. The varsity "V" is awarded to those who qualify in the major or minor sports, and lettermen's sweaters are awarded in major sports.

The intramural program includes baseball, tennis, gymnastics, golf, and other sports. Intramural sports and physical education are available for women as well as men.

Are There Club and Social Programs?

Cocurricular activities are recognized as an important part of the college program. Club activities and social programs are carried on by the students for the students with a minimum of faculty direction. Student affairs are under the direction of the Student Council elected by the students. The Interclub Council, made up of students, coordinates club activities. All school dances, parties, and other entertainments are part of the cocurricular program. All women students become members of the Associated Women Students, which sponsors a program suited to their interests.

Are There Any Student Publications at Vanport?

The students publish a weekly newspaper, the *Vanguard*, and a yearbook, the *Viking*. Students interested in writing and journalism may become members of the staffs of these two publications.

Is There a Student Cooperative?

The Student Cooperative Store provides texts, school supplies, and other articles needed by students. The store is run on a nonprofit basis and is open Monday through Friday from 9 A.M. to 5 P.M. Most of the employees of the store are students working on a part-time basis. The store is an example of the initiative and resourcefulness of the Vanport students. It was started in the fall of 1946 by a few students who formed a food-buying club to increase the purchasing power of their subsistence checks. Membership is restricted to students and employees of the Vanport Extension Center. The Cooperative also operates a cafeteria and soda fountain.

May Students Take Naval Training While Enrolled at Vanport?

Yes, the United States Naval Reserve maintains an excellent armory at Swan Island. Young men interested in this program, who can qualify, may join the Naval Reserve and drill for two hours, one night a week. Those in training receive pay and may advance to higher positions. Students are also eligible for the Reserve Officers Candidate program through which they may become officers in the Naval Reserve. This is open only to men attending college who are also members of the Naval Reserve. Those enrolled take two summer cruises of six weeks' duration and upon college graduation receive the commission as Ensign, U.S.N.R. Students are paid for their cruises as well as for the weekly drills. For further information write: U.S. Naval Reserve, Swan Island, Portland 11, Oregon.

What Is the Cost of Attending Vanport?

Registration and other fees total \$41 for the first term (three months) a student attends. This includes a \$5 matriculation fee which is paid only once. Cost for succeeding terms is \$36. Thus, the cost for the first school year is \$113, and for the second year, \$108. Students who are not residents of Oregon must pay an additional nonresident fee. The average student spends about \$50 per year for textbooks and classroom supplies. Living costs vary with the student. Most Vanport students live at home and save the cost of living in a dormitory or boarding house. Transportation costs may be reduced by riding the buses or forming ride clubs. For a complete list of fees and refunds see page 41.

What Scholarships Are Available?

The Oregon State System of Higher Education awards a limited number of scholarships annually. Students attending Vanport, as well as those in the other state colleges, are eligible for these scholarships, which cover course and laboratory fees. This amounts to \$81 per academic year for the recipient. At least 50 per cent of the scholarships are reserved for entering freshmen. To be eligible, a freshman must rank in the upper third of his graduating class; a student who has previously attended an institution of higher learning must have a grade-point average of 2.50. Scholarships are awarded only to students in need of financial assistance. Application should be made on an official blank, which may be secured from the Director, Vanport Extension Center.

Are Living Accommodations Available?

No dormitories are maintained by the Center. A housing bureau is available to assist single and married students in finding housing accommodations. In addition to helping find private housing and rooms in private homes, the Center works closely with the Portland Housing Authority which has furnished and unfurnished apartments and houses located near the campus.

The Center cannot assume responsibility for supervision of housing. Parents of minor students should supervise or arrange for proper supervision.

Who Is Eligible to Enter Vanport?

The purpose of the Vanport Extension Center is to serve all who wish to take courses and are able to profit by them. There is no admission require-

ment for those who do not plan to work toward a degree. Students who are high-school graduates may enter as regular students.

May Part-Time Students Attend?

Part-time students are permitted to attend. However, the Center is primarily for full-time students. Most part-time students find it more advantageous to attend the Portland Extension Center night classes. A catalog of the Portland Extension Center will be sent on request.

What Provisions Are Made for Veterans?

Vanport is approved by the Veterans Administration for training of veterans under P.L. 346, commonly known as the G. I. Bill of Rights, and P.L. 16, which is especially for disabled veterans. The state of Oregon also has a plan for giving assistance to veterans in college. Veterans interested should ask for additional information from the Veterans Administration, 208 S. W. Fifth Avenue (telephone, ATwater 9131) or State Department of Veterans Affairs, 416 S. W. Eleventh Avenue (telephone, ATwater 6376).

How Is Application for Admission Made?

1. Send in application blank, which may be secured by writing to:

Director, Vanport Extension Center
Oregon State System of Higher Education
Portland 3, Oregon
(Telephone, UNiversity 1605)

2. Request the high school from which you graduated and any college which you have attended to send your official records to the Vanport Extension Center.

How Does One Reach the Campus?

Look at the map on the inside back cover. By bus, take the St. Johns or Killingsworth bus to Philadelphia Street near the base of the St. Johns Bridge. Transfer to a Fessenden bus or ride the college shuttle bus which runs a regular schedule when classes are in session. Those unfamiliar with the campus may find it simpler, although more time-consuming, to take a St. Johns Woods or Fessenden bus from down-town Portland to the campus. By car from the west side of Portland, take Highway 30 to the St. Johns Bridge, cross the bridge, turn left on Jersey and continue out

Burgard to the Center. From the east side of Portland, take Swift Boulevard to the Center or take Lombard to St. Johns, then continue via Jersey and Burgard Streets. Numerous street signs help the motorist to find the way.

When Is Registration?

Students register during the first few days of each term. Students are urged to register before classes begin in order that no work may be missed. Those who register early have greater choice of courses and sections. However, permission may be granted to register any time during the first two weeks of a quarter. Students should see the Calendar in this book for registration dates.

Are Entrance Examinations Given?

Examinations are not given to determine eligibility for entrance. However, placement and other examinations are required which enable faculty counselors to plan for students courses suited to their needs and desires. Each student who has not completed a college English composition course of at least one term must take a placement examination to ascertain whether or not he needs a review course. Each student entering mathematics is given an examination for the purpose of determining with which course in mathematics it is best for him to start. Other tests are given which indicate the student's aptitudes and abilities.

What Guidance Is Given New Students?

Faculty counselors give advice on academic matters such as selection of courses and requirements for a student's chosen field. The Men's Adviser or Women's Adviser helps students with both academic and personal problems. The Men's Adviser also has charge of the student employment service which assists students in finding part-time jobs.

When Are the Fees Due?

All fees are payable in advance at the beginning of the term. Students pay their fees as part of their regular registration procedure.

When Does One Select a Major Field?

Many students select their major field before entering college. Others complete a year or more of college work and take a variety of courses to

find out where their interests lie. Students may change their majors as their college experience reveals new horizons. Most students not sure of their interests sign up as liberal arts majors, since subjects in this field are helpful in general development, and many of the courses are required for entrance into professional schools.

How Does One Become a Member of Groups and Organizations?

Vanport students find many clubs and organizations from which to choose. Organizations with charter restrictions against race, creed, or color are not permitted. Vanport takes pride in the democratic spirit of its students and organizations. Students interested in any club or organization should consult the faculty sponsor or a club member to learn how to join. Each year students form new organizations. The Student Council may grant a charter to a new group.

Academic Regulations

What Is Required for Freshman Standing?

ADMISSION: In order to be admitted to Vanport Extension Center, a student must be of good moral character, and if he plans to work for a degree he must present evidence of acceptable preparation for work at the college level.

A person applying for admission to freshman standing must submit a record of his high-school work on an official application form. Copies of this form may be obtained from high-school principals or from the Director of Vanport Extension Center. This record must be certified by the principal or superintendent of the applicant's school. A person applying for admission with advanced standing must submit a certified transcript of previous college work (and a record of high-school work if this is not included on the college transcript).

ADMISSION TO FRESHMAN STANDING: The requirements for admission to first-year, or freshman, standing conform to the following uniform entrance requirements adopted by all the state institutions of higher education in Oregon. The requirements are:

Graduation from a standard high school, which in Oregon requires the completion of 16 units, 8 of which are required as follows: 3 units in English; 2 units in social science, comprising the state-adopted courses

in United States history-civics and socio-economic problems; 1 unit in health and physical education; and 2 units selected from the fields of natural science and mathematics or the field of foreign language. Two units in either natural science or mathematics or 1 unit in each of these subjects will be acceptable, but a minimum of 2 units in a single language will be required if a foreign language is selected. In order to be admitted to any of the four-year curricula in engineering, except industrial arts, a student must present 1 unit in elementary algebra, $\frac{1}{2}$ unit in higher algebra, and 1 unit in plane geometry. A student deficient in mathematics may be admitted but must make up his deficiency before carrying the standard engineering program.

Graduates from standard out-of-state high schools are required to present substantially the same distribution of subject-matter units. Applicants who are not residents of Oregon may be held for additional requirements demonstrating superior ability.

REGULATIONS REGARDING NONRESIDENT FEE: The Oregon State Board of Higher Education has defined a nonresident student as a person who comes into Oregon from another state for the purpose of attending one of the institutions under the control of the Board.

In order to draw a clear line between resident and nonresident students, the Board has ordered that all students in the institutions under its control who have not lived in Oregon for more than one year immediately preceding the day of their first enrollment in the institution shall be termed nonresident students, with the following exceptions:

- (1) Students whose father (or mother, if the father is not living) is domiciled in the state of Oregon.
- (2) Children of regular employees of the Federal government stationed in the state of Oregon.

How Is the Academic Year Divided?

The academic year is divided into three terms of approximately twelve weeks each. The summer session supplements the work of the regular year. Students may enter at the beginning of any term.

What Is Meant by "Term," "Grade Point," Etc.?

A **TERM** is a division of the academic year and is approximately three months in length.

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

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

A CURRICULUM is an organized program of study arranged to provide integrated cultural or professional education, i.e., preidental curriculum.

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, or other periods per week for any course may be found in the course descriptions in this catalog, or in the separately published SCHEDULE.

A GRADE is a mark used to measure the quality of a student's work in an academic course (the four passing grades are: A, B, C, D).

A GRADE POINT is a numerical system of computing the quality of a student's work. High grades give more points than low grades. A 4.00 grade-point average denotes a straight A record. A 2.00 grade-point average is a C average.

A GROUP REQUIREMENT refers to the basic courses listed under three classifications: language and literature, social science, and science. Any year sequence listed under one of these groups may be taken to satisfy that group requirement.

How Are the Courses Numbered?

Courses are numbered as follows:

1-99. Courses in the first two years of foreign language, or other courses of similar grade.

100-110, 200-210. Survey or foundation courses that satisfy the lower-division group requirements in the language and literature, science, and social-science groups.

111-199, 211-299. Other courses offered at first-year and second-year levels.

300-399. Upper-division courses.

What Is the Grading System?

The grading system consists of: four passing grades, A, B, C, D; failure, F; incomplete, I; withdrawal, W. The grade of A denotes exceptional accomplishment; B, superior; C, average; D, inferior. Students ordinarily receive one of the four passing grades or F, failure. When the quality of

the work is satisfactory, and some minor but essential requirement of the course has not been completed, for reasons acceptable to the instructor, a report of I may be made and additional time granted. Students may withdraw from a course by filing the proper blanks at the office in accordance with Vanport Extension Center regulations. A student who discontinues attendance in a course without official withdrawal receives a grade of F in the course.

How Is the Grade-Point Average Computed?

Grade points are computed on the basis of 4 points for each term hour of A grade, 3 points for each term hour of B, 2 points for each term hour of C, 1 point for each term hour of D, and 0 points for each term hour of F. Marks of I 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 A, B, C, D, and F are received. Thus, if a student earned 6 hours of A, 3 hours of B, 3 hours of C, and 2 hours of D, his grade-point average is computed as follows:

<i>Grade</i>	<i>Hours</i>	<i>Weight</i>	<i>Grade Points</i>
A	6	4	24
B	3	3	9
C	3	2	6
D	2	1	2
	14		41

$41 \div 14 = 2.93$. The grade-point average is 2.93.

The grade-point average that is used as a standard of acceptable scholarship and as a requirement for graduation is computed on all work for which the student receives credit, including work for which credit is transferred, correspondence study, and work validated by special examination.

What Happens to Students Who Make Poor Grades?

The regulations governing scholarship requirements are made by a faculty committee. This committee has discretionary authority in the enforcement of rules governing probation, and also has authority to drop a student from Vanport Extension Center when it appears that his work is such that he cannot continue with profit to himself and with credit to the institution. In general, profitable and creditable work means substantial progress toward meeting graduation requirements.

A freshman student is automatically placed on probation if his grade-point average for any term is below 1.50. He is not released from proba-

tion until his grade-point average for a subsequent term is at least 1.75.

A sophomore student is automatically placed on probation if his grade-point average for any term is below 1.75. He is not released from probation until his grade-point average for a subsequent term is at least 2.00.

What Are the Two-Year Certificates?

The JUNIOR CERTIFICATE admits to upper-division standing in other institutions of the Oregon State System of Higher Education and the opportunity to pursue a major curriculum leading to a degree. A student may fulfill the requirements for the Junior Certificate during his two years at Vanport Extension Center. The requirements are as follows:

- (1) Term Hours: Minimum, 93.
- (2) Grade-Point Average: Minimum, 2.00.
- (3) English:
 - (a) Freshmen who do not obtain a satisfactory rating in the English placement examination required upon entrance must take and pass the course designated Rhetoric K.
 - (b) English Composition: 9 term hours unless excused. A student whose work meets the standards aimed at may, at the end of any term, with the consent of the head of the Department of English, be excused from further required written English.
- (4) Physical Education: 5 terms in activity courses unless excused (veterans are excused).
- (5) Health Education: PE 250 will satisfy the requirement for men or women (veterans are excused).
- (6) Group Requirements: A prescribed amount of work selected from three "groups" representing comprehensive fields of knowledge. The three groups are: language and literature, science, social science. Courses that satisfy group requirements are numbered from 100 to 110 and from 200 to 210. The group requirements are as follows:
 - (a) For students in liberal arts and sciences—at least 9 approved term hours in each of the three groups and at least 9 additional approved term hours in courses numbered 200-210 in any one of the three groups.
 - (b) For students in the professional and technical schools—at least 9 hours in each of two of the following: English literature or upper-division foreign languages; science; social science.

Students should study the catalog of the institution to which they plan to transfer to be sure that all of its lower-division requirements are met.

The LOWER-DIVISION CERTIFICATE recognizes the successful completion of two years of lower-division work. This certificate is issued upon request to students whose desire has been to round out their general education. It does not require the scholastic average specified for the Junior Certificate and does not admit to upper-division standing.

Group Courses

Year sequences applicable in meeting group requirements are listed below. These courses may also be taken as electives. Descriptions of the courses are given in this catalog.

Language and Literature Group

Eng 101, 102, 103. (U) **Survey of English Literature.** 3 hours each term.

Eng 104, 105, 106. (U) **Appreciation of Literature.** 3 hours each term.

Eng 201, 202, 203. (U) **Shakespeare.** 3 hours each term.

Eng 204, 205, 206. (C) **American Literature.** 3 hours each term.

Science Group

Botany

Bi 204, 205, 206. (U) **General Botany.** 4 hours each term.

Chemistry

Ch 104, 105, 106. (S) **General Chemistry.** 4 hours each term.

Ch 204, 205, 206. (S) **General Chemistry.** 5 hours each term.

Geology

G 201, 202, 203. (S) **Geology.** 3 hours each term.

Mathematics*

Mth 100. (S) **Intermediate Algebra.** 4 hours.

Mth 101, 102, 103. (S) **Elementary Analysis.** 4 hours each term.

Mth 105. (U) **College Algebra.** 4 hours.

Mth 108. (U) **Mathematics of Finance.** 4 hours.

Mth 109. (U) **Elements of Statistics.** 4 hours.

Mth 201, 202, 203. (S) **Differential and Integral Calculus.** 4 hours each term.

Physics

Ph 101, 102, 103. (S) **Engineering Physics.** 3 hours each term.

Ph 201, 202, 203. (S) **General Physics.** 4 hours each term.

* Any three of the following meet the science requirement: Mth 100, Mth 105, Mth 108, Mth 109.

Psychology†

Psy 201, 202. (U) General Psychology. 3 hours each term.

Psy 204. (U) Psychology of Adjustment. 3 hours.

Psy 205. (U) Applied Psychology. 3 hours.

Psy 208, 209, 210. (U) General Psychology Laboratory. 1 hour each term.

Science

GS 101, 102, 103. (S) Biological Science Survey. 4 hours each term.

GS 104, 105, 106. (S) Physical Science Survey. 4 hours each term.

Zoology

Z 101, 102, 103. (S) Human Biology. 3 hours each term.

Z 201, 202, 203. (U) General Zoology. 4 hours each term.

Social Science Group**Anthropology**

Anth 207, 208, 209. (U) Introduction to Cultural Anthropology. 3 hours each term.

Economics

Ec 201, 202, 203. (U) Principles of Economics. 3 hours each term.

General Social Science

SSc 101, 102, 103. (U) Backgrounds of Social Science. 3 hours each term.

History

Hst 101, 102, 103. (U) History of Western Civilization. 3 hours each term.

Hst 201, 202, 203. (U) History of the United States. 3 hours each term.

Hst 204. (S) History of the Far East. 3 hours.

Hst 206. (S) Modern Russia. 3 hours.

Hst 207, 208, 209. (U) English History. 3 hours each term.

Hst 209. (S) The World Since 1914. 3 hours.

Hst 224, 225, 226. (S) History of American Civilization. 3 hours each term.

Human Geography

HG 101, 102, 103. (S) Geography. 3 hours each term.

HG 201, 202, 203. (S) Regional Geography. 3 hours each term.

Political Science

PS 201, 202, 203. (U) American Government. 3 hours each term.

Psychology

Psy 201, 202. (U) General Psychology. 3 hours each term.

Psy 204. (U) Psychology of Adjustment. 3 hours.

Psy 205. (U) Applied Psychology. 3 hours.

† Psy 208, 209, 210 must be taken with Psy 201, 202, 204 or Psy 201, 202, 205 to satisfy the science group requirement.

Sociology

Soc 204, 205, 206. (U) **General Sociology.** 3 hours each term.

Recommended Courses for Major Fields

The following courses are recommended to students interested in the major fields listed. More complete information on the requirements of the basic fields may be obtained by consulting the catalogs of the University of Oregon, Oregon State College, and colleges of education. Titles of these courses and their descriptions may be found in another section of this catalog. For further information on their major fields, students should secure a copy of the catalog directly from the college to which they plan to transfer.

Preagriculture*Freshman Year*

	Term Hours		
	F	W	S
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
General Botany—Bi 204, 205, 206 (U)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Extempore Speaking—Sp 111 (S)	-	-	3
American Government—PS 201 (U)	-	3	-
Elementary Journalism—J 111 (U)	3	-	-
Physical Education—PE 180 or 190 (U)	1	1	1
	18	18	18

Preagricultural Engineering*Freshman Year*

General Botany—Bi 204, 205, 206 (U)	4	4	-
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Extempore Speaking—Sp 111 (S)	-	-	3
Forging and Welding—IE 250 (S)	-	-	2
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	17

Sophomore Year

Constructive Accounting—BA 111 (U)	3	-	-
Plane Surveying—CE 226 (S)	-	-	3
Engineering Drawing—GE 121, 122 (S)	3	3	-
Machine Shop Practices—IE 260 (S)	-	3	-
General Physics—Ph 201, 202 (S)	4	4	-
Background of Social Science—SSc 101, 102, 103 (U)	3	3	3
Outlines of Economics—Ec 212 (S)	-	3	-
Elementary Journalism—J 211 (U)	3	-	-
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	7

Biology—Botany*Freshman Year*

	Term Hours		
	F	W	S
General Zoology—Bi 201, 202, 203 (U)	4	4	4
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
English Composition—Eng 111, 112, 113 (S)	3	3	3
Literature or social science group requirement	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Sophomore Year

General Botany—Bi 204, 205, 206 (U)	4	4	4
Mathematics—Mth 101, 102, 103 or Mth 109 (S)	4	4	4
Literature or social science group requirement	3	3	3
Comparative Vertebrate Anatomy—Z 324, 325 (S), and Comparative Vertebrate Embryology—Z 326 (S)	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Business Administration*Freshman Year*

Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Mathematics—Mth 100 S, 105 U, 108 (U)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Electives in social science, speech, music, literature, foreign languages	5	5	5
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Sophomore Year

Elements of Finance and Marketing—BA 222, 223 (U)	4	4	—
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Business English—Eng 217 (S)	—	—	3
Physical Education—PE 180 or 190 (U)	1	1	1
Electives in social science, science, or literature	6	6	6
Either BA 211 (U), BA 212 (U), BA 213 (U), or J 211, 212, 213 (U)	3	3	3
	17	17	16

Business and Technology*Freshman Year*

Introduction to Business and Industry—BA 111, 112 (S)	3	3	—
Survey of Modern Industry—BA 113 (S)	—	—	3
Mathematics—Mth 100 (S), Mth 105 (U), Mth 108 (U)	4	4	4
Geography—HG 101, 102, 103 (S)	3	3	3
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
Literature, speech, or foreign languages	3	3	3
	17	17	17

Sophomore Year

	Term Hours		
	F	W	S
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Psychology—Psy 201, 202, 205 (U)	3	3	3
American Government—PS 201 (U)	3	—	—
History of the U. S.—Hst 203 (U)	—	—	3
General Sociology or Anthropology	—	3	—
Technical minors	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Chemistry*Freshman Year*

General Chemistry—Ch 204, 205, 206 (S)	5	5	5
English Composition—Eng 111, 112, 113 (S)	3	3	3
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
Literature or social science group requirement	3	3	3
	16	16	16

Sophomore Year

Advanced Qualitative Analysis—Ch 231 (S), Quantitative Analysis—Ch 232, 233 (S)	5	5	5
General Physics—Ph 201, 202, 203 (S)	4	4	4
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
Literature or social science group requirement	3	3	3
	17	17	17

Chemical, Metallurgical, and Mining Engineering*Common Freshman Year*

Chemical and Mineral Industry—ChE 111, 112, 113 (S)	1	1	1
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Engineering Drawing—GE 121, 122 (S)	3	3	—
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	14

Civil, Electrical, Industrial, and Mechanical Engineering*Common Freshman Year*

Engineering Problems—GE 101, 102, 103 (S)	2	2	2
Engineering Drawing—GE 121, 122 (S)	3	3	—
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Engineering Physics—Ph 101, 102, 103 (S)	3	3	3
English Composition—Eng 111, 112, 113 (S)	3	3	3
*Descriptive Geometry—GE 123 (S)	—	—	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

* Mechanical Engineering students only or election.

Civil Engineering*Sophomore Year*

	Term Hours		
	F	W	S
Introduction to Civil Engineering—CE 201, 202, 203 (S)	2	2	2
Plane Surveying—CE 221, 222, 223 (S)	3	3	3
Mechanics—ME 212, 213 (S)	—	3	3
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	3	—	—
	17	17	17

Electrical Engineering*Sophomore Year*

Introduction to Electrical Engineering—EE 201, 202, 203 (S)	4	4	4
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Plane Surveying—CE 226 (S)	—	—	3
American National Government—PS 201 (U)	3	—	—
Social science elective	—	—	3
Machine Shop—IE 260 (S)	—	2	—
Extempore Speaking—Sp 111 (S)	—	3	—
Principles of Accounting—BA 111 (S)	3	—	—
Physical Education—PE 180 or 190 (U)	1	1	1
	19	18	19

Industrial Engineering*Sophomore Year*

Introduction to Scientific Management—IE 290 (S)	—	—	3
Pattern Making—IE 111 (S)	3	—	—
Foundry Practices—IE 240 (S)	2	—	—
Forging and Welding—IE 250 (S)	—	—	2
Machine Shop Practices—IE 260 (S)	—	2	—
Descriptive Geometry—GE 123 (S)	3	—	—
Mechanics (Statics)—ME 212 (S)	—	3	—
Mechanics (Dynamics)—ME 213 (S)	—	—	3
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
American National Government—PS 201 (U)	—	3	—
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	17

Mechanical Engineering*Sophomore Year*

Descriptive Geometry—GE 123 (S)	3	—	—
Mechanics (Statics)—ME 212 (S) and			
Mechanics (Dynamics)—ME 213 (S)	—	3	3
Materials of Engineering—ME 216 (S)	—	—	3
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
Foundry Practices—IE 240 (S)	2	—	—
Machine Shop Practices—IE 260 (S)	—	2	—
Forging and Welding—IE 250 (S)	—	—	2
Plane Surveying—CE 226 (S)	3	—	—
Principles of Accounting—BA 111 (S)	—	3	—
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Introduction to Aeronautics—ME 241 (S) (Elective)	—	—	—
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	17

Industrial Administration*Freshman Year*

	Term Hours		
	F	W	S
Norm			
Pattern Making—IE 111 (S)	3	--	--
Foundry Practices—IE 240 (S)	2	--	--
Machine Shop Practices—IE 260 (S)	--	2	--
Forging and Welding—IE 250 (S)	--	2	--
Engineering Drawing—GE 121, 122 (S)	3	3	--
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	--	--	6
	12	11	10
Metal Industries Option			
Freshman-year norm	12	11	10
Mathematics—Mth 100, 101, 109 (S)	4	4	4
Extempore Speaking—Sp 111 (S)	--	--	3
	16	15	17
Tool Design Option			
Freshman-year norm	12	11	10
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Extempore Speaking—Sp 111 (S)	--	--	3
	16	15	17
Wood Industries Option			
Freshman-year norm	12	11	10
Mathematics—Mth 100, 101, 109 (S)	4	4	4
	16	15	14

Industrial Administration*Sophomore Year*

Norm			
General Physics—Ph 201, 202, 203 (S)	4	4	4
Lower-Division Drawing (Construction)—AA 291 (S)	--	3	--
Business English—Eng 217 (S)	--	--	3
American National Government—PS 201 (U)	3	--	--
Physical Education—PE 180 or 190 (U)	1	1	1
	8	8	8
Tool Design Option			
Sophomore-year option	8	8	8
Introduction to Business and Industry—BA 111, 112 (S)	3	3	--
Mechanics (Statics)—ME 212 (S)	--	3	--
Mechanics (Dynamics)—ME 213 (S)	--	--	3
Differential and Integral Calculus—Mth 201, 202 (S)	4	4	--
Economic Development of the United States—Ec 215 (S)	--	--	4
Physical Education—PE 180 or 190 (U)	1	1	1
	16	19	16
Wood Industries Option			
Sophomore-year option	8	8	8
Introduction to Business and Industry—BA 111, 112 (S)	3	3	--
House Planning and Architectural Drawing—AA 178, 179, 180 (S)	3	3	3
Extempore Speaking—Sp 111 (S)	--	3	--
Materials of Engineering—ME 216 (S)	--	--	3
Physical Education—PE 180 or 190 (U)	1	1	1
	15	18	15

Industrial-Arts Education*Freshman Year*

	Term Hours		
	F	W	S
Pattern Making—IE 111 (S)	3	-	-
Foundry Practices—IE 240 (S)	2	-	-
Forging and Welding—IE 250 (S)	-	-	2
Machine Shop Practices—IE 260 (S)	-	2	-
Engineering Drawing—GE 121, 122 (S)	-	3	3
Group requirement in science group	8	8	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Descriptive Geometry—GE 123 (S)	-	-	3
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	16

Sophomore Year

House Planning and Architectural Drawing—AA 178, 179 (S)	3	3	-
House Planning and Architectural Drawing—AA 180 (S), or Descriptive Geometry—GE 123 (S)	-	-	3
Social science	3	3	3
General Psychology—Psy 201, 202 (U)	3	3	-
Educational Psychology—Ed 312 (C)	-	-	3
Business English—Eng 217 (S), or Elementary Journalism—J 211 (U)	3	-	-
Extempore Speaking—Sp 111 (S)	-	3	-
Technical electives	3	2	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	15	16

Elementary Education*Freshman Year*

English Composition—Eng 111, 112, 113 (S)	3	3	3
Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Geography—HG 101, 102, 103 (S)	3	3	3
Personal Health—HE 250 (U)	3	-	-
Extempore Speaking—Sp 111 (S)	-	3	-
Background of Social Science—SSc 101, 102, 103 (U)	3	3	3
Foundations of Mathematics—Mth 211 (C)	-	-	3
	16	17	17

Sophomore Year

Physical Science Survey—GS 104, 105, 106 (S)	4	4	4
World Literature—Eng 107, 108, 109 (C)	3	3	3
General Psychology—Psy 201, 202 (U)	3	3	-
Educational Psychology—Ed 312 (C)	-	-	3
Introduction to Education—Ed 354 (C)	3	-	-
Music I: Introductory Course in Music—Mus 281 (C), and Music II: Music Reading & Ear Training—Mus 282 (C)	3	3	-
Art Structure I, II—A 211, 212 (C)	-	3	3
Physical Educ. in the Elementary Grades—Ed 344, 345, 346 (C)	-	-	3
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	17

Prejournalism*Freshman Year*

	Term Hours		
	F	W	S
Elementary Journalism—J 211, 212, 213 (U)	3	3	3
Survey of English Literature—Eng 101, 102, 103 (U), or Physical Science Survey—GS 104, 105, 106 (S)	3-4	3-4	3-4
Social science, foreign language, or mathematics	3-4	3-4	3-4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	13-15	13-15	13-15

Sophomore Year

Backgrounds of Publishing—J 311, 312, 313 (U)	3	3	3
Foreign language, social science, or science	3-4	3-4	3-4
Physical Education—PE 180 or 190 (U)	1	1	1
Electives including PS 201, 202, 203 or Psy 201, 202, 204	10	10	10
	17	17	17

Preforestry*Freshman Year*

General Forestry—F 111 (S)	2	--	--
Wood Utilization—FP 210 (S)	--	3	--
Forest Land Use—F 311 (S)	--	--	3
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Biological Science Survey—GS 101 (S)	4	--	--
Physical Science Survey—GS 105, 106 (S)	--	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Engineering Drawing—GE 121 (S)	3	--	--
Extempore Speaking—Sp 111 (S)	--	3	--
Physical Education—PE 180 or 190 (U)	1	1	1
	17	18	15

Home Economics*Freshman Year*

Color Composition—AA 160, 161 (S)	3	3	--
General Chemistry—Ch 104, 105, 106 (S), or Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Appreciation of Music—Mus 127 (U)	2	--	--
Nutrition—FN 225 (S)	--	--	3
Foods—FN 211 (S)	3	--	--
Textiles—CT 250 (S)	--	3	--
Clothing (Selection)—CT 211 (S)	--	--	3
Elementary Clothing—CT 111 (S)	--	--	3
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	3	3	3
	16	14	17

Mathematics*Freshman Year*

Group requirement in literature	3	3	3
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
Elective	4-5	4-5	4-5
	15-16	15-16	15-16

Liberal Arts*Freshman Year*

	Term Hours		
	F	W	S
Survey of English Literature—Eng 101, 102, 103 (U), or Appreciation of Literature—Eng 104, 105, 106 (U)	3	3	3
Social science group requirement	3	3	3
Science or mathematics group requirement	4	4	4
French, German, Spanish, or elective	3	3	3
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	17

Sophomore Year

Second-year major field	3	3	3
Second-year foreign language or elective	4	4	4
Social science or science electives	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
Elective	4	4	4
	16	16	16

Predental*Freshman Year*

General Zoology—Bi 201, 202, 203 (U)	4	4	4
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	17

Sophomore Year

Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
Group requirement in social science	3	3	3
Physical or Biological Science Survey—CS 104, 105, 106 (S) or CS 101, 102, 103 (S)	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	3-4	3-4	3-4
	15-16	15-16	15-16

Prelaw*Freshman Year*

Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
History of the United States—Hst 201, 202, 203 (U)	3	3	3
American Government—PS 201, 202, 203 (U)	3	3	3
Survey of English Literature—Eng 101, 102, 103 (U)	3	3	3
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Sophomore Year

English History—Hst 207, 208, 209 (U)	3	3	3
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Science, mathematics, or literature	3-4	3-4	3-4
General Psychology—Psy 201, 202 (U) ; and Psychology of Adjustment—Psy 204 (U), or Applied Psychology—Psy 205 (U)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	3	3	3
	16-17	16-17	16-17

Sophomore Year

	Term Hours		
	F	W	S
Organic Chemistry—Ch 226, 227 (S), and Quantitative Analysis—Ch 234 (S)	5	5	5
General Physics—Ph 201, 202, 203 (S)	4	4	4
Literature or social science group requirement	3	3	3
Zoology elective—Z 324 (S)	4	—	—
Physical Education—PE 180 or 190 (U)	1	1	1
Elective	—	4	4
	17	17	17

Premedical*Freshman Year*

General Zoology—Bi 201, 202, 203 (U)	4	4	4
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	17	17	17

Sophomore Year

Comparative Vertebrate Anatomy—Z 324, 325 (S), and Comparative Vertebrate Embryology—Z 326 (S)	4	4	4
Organic Chemistry—Ch 226, 227 (S)	5	5	5
Chemistry—Ch 231, 232, 233 (S) (junior year) or Ch 234 (S)	—	—	5
Literature group requirement	3	3	3
Social science group requirement	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Medical and Dental Assistants

(This is a terminal course completed in two years.)

Freshman Year

English Composition—Eng 111 (S)	3	—	—
First Aid—PE 252 (U)	—	—	3
Biological Science Survey—CS 101, 102, 103 (S)	4	4	4
Personal Health—PE 250 (U)	—	3	—
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Typing—SS 121, 122, 123 (S)	2	2	2
Stenography—SS 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Sophomore Year

General Psychology—Psy 201, 202 (U)	3	3	—
Applied Stenography—SS 211, 212, 213 (S)	3	3	3
Business English—Eng 217 (S)	3	—	—
Salesmanship—Mer 238 (C)	—	3	—
Business Law—SS 254 (C)	—	—	3
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Office Apprenticeship—MD 290 (C)	—	—	4
Office Practice—SS 241 (C)	3	—	—
Extempore Speaking—Sp 111 (S)	—	3	—
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	—	—	2
	17	17	17

Merchandising

(This is a terminal course completed in two years.)

Freshman Year

	Term Hours		
	F	W	S
English Composition—Eng 111, 113 (S)	3	—	3
Extempore Speaking—Sp 111 (S)	—	3	—
Personal Health—PE 250 (U)	3	—	—
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
General Psychology—Psy 201, 202 (U)	3	3	—
Applied Psychology—Psy 205 (U)	—	—	3
Elements of Marketing—BA 223 (U)	—	—	4
Salesmanship—Mer 238 (C)	—	3	—
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	4	4	3
	17	17	17

Sophomore Year

Elementary Principles of Retailing—Mer 236 (C)	3	—	—
Merchandise-apprenticeship—Mer 290 (C)	—	—	6
Office Practice—SS 241 (C)	—	3	—
Business Law—SS 254 (C)	—	3	—
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
History of the United States—Hst 202, 203 (U)	—	3	3
Advertising—Mer 239 (C)	3	—	—
Regional Human Geography—HG 101 (S), or General Forestry—F 111 (S)	3	—	—
Commercial Design—A 313 (C)	—	2	—
Lettering—A 217 (C)	—	—	1
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	4	2	3
	17	17	17

Prenursing*Freshman Year*

General Chemistry—Ch 104, 105, 106 (S)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
English literature group requirement	3	3	3
Backgrounds of Nursing—Nur 111 (U)	3	—	—
Home Nursing—Nur 230 (U)	—	2	—
Physical Education—PE 180 (U)	1	1	1
Electives	3	2	6
	17	16	17

Sophomore Year

General Zoology—Bi 201, 202 (U)	4	4	—
General Psychology—Psy 201, 202 (U)	3	3	—
Psychology of Adjustment—Psy 204 (U)	—	—	3
General Sociology—Soc 204, 205 (U)	3	3	—
Nutrition—FN 225 (S)	3	—	—
Physical Education—PE 180 (U)	1	1	1
Electives	2	5	—
	16	16	4

Prepharmacy*Freshman Year*

	Term Hours		
	F	W	S
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
General Zoology—Bi 201, 202, 203 (U)	4	4	4
General Sociology—Soc 204, 205, 206 (U) ; or General Psychology— Psy 201, 202 (U), and Psychology of Adjustment—Psy 204 (U) ; or Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	16	16	16

Physics*Freshman Year*

Engineering Physics—Ph 101, 102, 103 (S), or General Physics—Ph 201, 202, 203 (S)	3-4	3-4	3-4
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Eng 111, 112, 113 (S)	3	3	3
Social science or literature group requirement	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
	14-15	14 15	14-15

Sophomore Year

Photography—Ph 361, 362, 363 (S)	3	3	3
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
General Chemistry—Ch 104, 105, 106 (S), or Ch 204, 205, 206 (S)	4-5	4-5	4-5
Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Physical Education—PE 180 or 190 (U)	1	1	1
	16-17	16-17	16-17

Prephysical Education*Freshman Year*

General Zoology—Bi 201, 202, 203 (U), or Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Intermediate Algebra—Mth 10 (S)	4	—	—
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 127, 128, 129 (U)	2	2	2
Electives	3	6	6
	16	15	15

Sophomore Year

General Physics—Ph 201, 202, 203 (S)	4	4	4
General Chemistry—Ch 104, 105 (S)	4	4	—
General Psychology—Psy 201, 202 (U)	3	3	—
Nutrition—FN 225 (S)	—	—	3
Physical Education—PE 227, 228, 229 (U)	2	2	2
Electives	3	3	6
	16	16	15

Secretarial Science

(This is a terminal course completed in two years.)

Freshman Year

	Term Hours		
	F	W	S
Typing—SS 121, 122, 123 (S)	2	2	2
Stenography—SS 111, 112, 113 (S)	3	3	3
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
English Composition—Eng 111, 112, 113 (S)	3	3	3
Extempore Speaking—Sp 111 (S)	—	3	—
Physical Education—PE 180 or 190 (U)	1	1	1
Personal Health—HE 250 (U)	3	—	—
Elective	—	—	3
	15	15	15

Sophomore Year

Applied Stenography—SS 211, 212, 213 (S)	3	3	3
Office Practice—SS 241, 242, 243 (C)	3	3	3
Business English—Eng 217 (S)	3	—	—
Business Law—SS 255 (C)	—	3	—
Salesmanship—Merc 238 (C)	—	—	3
General Psychology—Psy 201 (U)	3	—	—
History of the United States Hst 201, 202 (U)	—	3	3
Principles of Economics—Ec 201, 202 (U)	3	3	—
Physical Education—PE 180 or 190 (U)	1	1	1
Elective	—	—	3
	16	16	16

One-Year Curriculum in Secretarial Science

(For students with high-school work in typing and shorthand.)

Applied Stenography—SS 211, 212, 213 (S)	3	3	3
Office Practice—SS 241, 242, 243 (C)	3	3	3
Constructive Accounting—BA 111, 112 (U)	3	3	—
English Composition—Eng 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 or 190 (U)	1	1	1
Electives	3	3	6
	16	16	16

Fees and Refunds

Fees are payable at the time of registration. The Oregon State System of Higher Education reserves the right to change the schedule of fees and refunds without notice. Registration is not complete until all fees are paid. Checks should be drawn to the order of the Vanport Extension Center. Students are held responsible for knowledge of fees and dates of payment.

FEES AND REFUNDS

41

Resident Students	<i>Per Term</i>	<i>Per Academic Year</i>
Tuition.....	None	None
Incidental and Laboratory Fee (includes \$5 per term for educational and athletic-activities fee and \$4 per term for health service).....	\$ 36.00	\$108.00
TOTAL Resident Fee	\$ 36.00	\$108.00

Nonresident Students	<i>Per Term</i>	<i>Per Academic Year</i>
Tuition.....	None	None
Incidental and Laboratory Fee (includes \$5 per term for educational and athletic-activities fee and \$4 per term for health service).....	\$ 36.00	\$108.00
Nonresident Fee (in addition to fees for resident student).....	70.00	210.00
TOTAL Nonresident Fee	\$106.00	\$318.00

Part-Time Students (registering for 3 credit hours or less)

<i>No. of Hours</i>	<i>Per-Term Fees (no tuition charged)</i>			
	<i>Total Fee</i>	<i>Incidental & Laboratory Fee</i>	<i>Health Service</i>	<i>Educational & Athl.-Act. Fee</i>
1	\$17.00	\$ 8.00	\$ 4.00	\$ 5.00
2	25.00	16.00	4.00	5.00
3	33.00	24.00	4.00	5.00

Special Fees and Fines

Late-Registration Fee.....	\$1.00 to \$5.00
Change-of-Program Fee (assessable after last day to add courses).....	1.00
Reinstatement Fee.....	2.00
Transcript Fee (one furnished without cost).....	1.00
Matriculation Fee (not refundable).....	5.00

Fee Refunds

Students who withdraw from the Vanport Extension Center and who have complied with the regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the time of withdrawal. The refund schedule has been established by the State Board of Higher Education and is on file in the Center 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 ceases attending classes, except in unusual cases when withdrawal has been delayed through causes largely beyond the control of the student.

Description of Courses

The course descriptions which follow are offered to give the student an idea of the purpose and scope of the courses. Students should note that some courses cannot be taken until a more elementary course has been completed. The elementary course which is the prerequisite for such a course is usually given as part of the course description. For an example of the course-numbering system see page 24. The hours indicated following the course title represent the term hours of credit which may be earned. The Vanport Extension Center reserves the right to discontinue any listed course because of insufficient enrollment or other reasons. The courses offered by the Vanport Extension Center are approved by the State Board of Higher Education for one or more of the institutions of the State System; (S) following the course number indicates that it is an Oregon State College course, (U) a University of Oregon course, (C) a college of education course, (E) a General Extension Division course.

Agriculture

AEc 221. (S) **Agricultural Resources.** 3 hours.

Agricultural resources of the world, the United States, and Oregon; a broad survey of agriculture, including soil, climate, topography, institutions, and population and their relation to present-day problems.

Anthropology

Anth 207, 208, 209. (U) **Introduction to Cultural Anthropology.**
3 hours each term.

The meaning of culture; its significance for human beings; its diverse forms and degrees of elaboration among different groups of men; its processes of growth and expansion.

Art and Architecture

AA 111, 112, 113. (S) **Graphics I.** 2 hours each term.

First year. The principles of orthographic projection or descriptive geometry; application to the construction of plans and elevations; projections of points, lines, and planes; location of shades and shadows for design problems.

AA 114, 115, 116. (S) **Survey of Visual Arts (History and Appreciation).**
3 hours each term.

Creative fundamentals and functions of architecture, painting, sculpture, and the other arts. Historical and contemporary works of the best of man's creations are studied to develop an individual taste and increased appreciation.

AA 160, 161. (S) **Color and Composition.** 3 hours each term.

Studio and lecture classes in the everyday use of the principles of composing or creating with lines, colors, and textures. The course fulfills the art requirements of the School of Home Economics.

AA 178. (S) **House Planning and Architectural Drawing.** 3 hours.

Aim is to stimulate appreciation and criticism of domestic architecture. Small-house planning and drawing with particular reference to the needs of students in agriculture, engineering, forestry, and home economics.

AA 179, 180. (S) **House Planning and Architectural Drawing.**

3 hours each term.

Small-house construction; detail drawing; development of working drawings begun in AA 178; presentation plans, advanced planning, and design. Prerequisite for either course: AA 178.

AA 195. (S) **Basic Design.** 2 hours each term, three terms.

Instruction through individual projects, leading to creative mastery of basic design in the major visual arts and an understanding of the design factors involved in the various professional art fields. Three terms required of all students who expect to major in art, architecture, interior design, or landscape architecture at the University of Oregon. The work is correlated with that of AA 114, 115, 116.

A 211. (C) **Art Structure I.** 3 hours.

The elements of design, color, and representation as they are related to the needs of the student. Creative work is stressed, the student receiving actual experience in different media.

A 212. (C) **Art Structure II.** 2 hours.

Problems of construction, decorative design, lettering, and modeling, in many media. Approaches to design are discussed, with the emphasis on creative work. Prerequisite: A 211.

A 217. (C) **Lettering.** 1 hour.

Lettering, including a study of historic styles such as Roman, Gothic, Old English, as well as the modern decorative, manuscript, and poster types.

A 313. (C) **Commercial Design.** 2 hours.

Effective use of design and color in the various fields of production. Lectures and supplementary reading with class problems in designing poster, package jackets, and textiles. Consent of instructor is required to take this course.

Astronomy

(See PHYSICS)

Biology

(See BOTANY and ZOOLOGY)

Botany

Bi 204, 205, 206. (U) **General Botany.** 4 hours each term.

A study of the fundamental principles of plant biology.

Business Administration

BA 111, 112. (S) **Introduction to Business and Industry.** 3 hours each term.

Survey of business organization, operation, and management intended to orient the student in the field of business and industry and to help him determine a field of major emphasis.

BA 113. (S) Survey of Modern Industry. 3 hours.

Principal industries of the United States and Pacific Northwest; dynamic nature and social problems of American industry. Student is helped to choose the technical and scientific fields in which he desires to concentrate.

BA 111, 112, 113. (U) Constructive Accounting. 3 hours each term.

Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors; prerequisite to advanced work in business.

BA 212. (U) Principles of Cost Accounting. 3 hours.

Basic principles of cost accounting; departmentalization; expense allocation; designed primarily for students interested in general accounting. Prerequisite: BA 111, 112, 113.

BA 213. (U) Analysis of Financial Statements. 3 hours.

Managerial accounting for effective management and control of industrial and trading concerns. Preparation, analysis, and interpretation of balance sheets and operating reports. Prerequisite: BA 111, 112, 113.

BA 222. (U) Elements of Finance. 4 hours.

The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113.

BA 223. (U) Elements of Marketing. 4 hours.

Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution. Required of business administration majors.

Mer 236. (C) Elementary Principles of Retailing. 3 hours.

Store location and layout; buying, receiving, marking, and pricing of merchandise; stock control; sales promotion; personnel problems in merchandising.

Mer 238. (C) Salesmanship. 3 hours.

Salesmanship as a factor in distribution and service; analysis of the customer and his wants; methods of obtaining and holding customers; wholesale and retail sales processes, services, and principles of selling.

Mer 239. (C) Advertising. 3 hours.

Advertising as a factor in the distribution process; advertising agencies; evaluation and selection of advertising media for various types of business establishments; preparation of copy.

Mer 290. (C) Merchandise Apprenticeship. 6 hours.

Actual selling experience under appropriate supervision with directed corollary readings. Conducted through the cooperation of local merchants.

Chemistry

Ch 104, 105, 106. (S) General Chemistry. 4 hours each term.

Required for nursing-education and medical-technician students. One lecture; 2 recitations; 1 three-hour laboratory period.

Ch 204, 205, 206. (S) General Chemistry. 5 hours each term.

A year sequence. Ch 204 and 205 are devoted primarily to the basic principles of general chemistry, Ch 206 includes a study of semi-micro qualitative analysis, chemistry of selected metallic elements, and other subjects not covered in the more elementary courses. The course constitutes beginning chemistry for students majoring in chemistry, chemical engineering, premedics, and others requiring extensive

knowledge of the subject. Two lectures; 1 recitation; 2 three-hour laboratory periods.

Ch 226. (S) Organic Chemistry. 5 hours.

Carbon compounds of the aliphatic series. Prerequisite: Ch 106 or Ch 206. Two lectures; 1 recitation; 2 three-hour laboratory periods.

Ch 227. (S) Organic Chemistry. 5 hours.

An intensive study of the chemistry of the aromatic series. Prerequisite: Ch 226.

Ch 231. (S) Advanced Qualitative Analysis. 5 hours.

Advanced theory of qualitative analysis and examination of commercial products. Prerequisite: Ch 206. Two lectures; 3 three-hour laboratory periods.

Ch 232, 233. (S) Quantitative Analysis. 5 hours each term.

Fundamental principles and laboratory practice. Prerequisite: Ch 206. Two lectures; 3 three-hour laboratory periods.

Ch 234. (S) Quantitative Analysis. 5 or 6 hours.

Principles of gravimetric analysis, volumetric analysis, and H-ion concentration. Designed for pharmacy and premedical students and medical technicians. Prerequisite: Ch 103. For 5 hours credit: 2 lectures; 3 three-hour laboratory periods. For 6 hours credit: 2 lectures; 1 recitation; 3 three-hour laboratory periods.

Ch 241. (S) Chemical Theory. 4 hours.

Theory and calculations in inorganic chemistry as a foundation for industrial chemistry. Prerequisite: Ch 206. Three lectures; 1 two-hour computation period.

Clothing and Textiles

(See HOME ECONOMICS)

Drama

(See SPEECH)

Economics

Ec 201, 202, 203. (U) Principles of Economics. 3 hours each term.

The study of practical problems, including money, taxation, trade, labor, regulation of railways and public utilities, and monopolies. Prerequisite: sophomore standing.

Ec 212. (S) Outlines of Economics. 3 hours.

A rapid survey of the principles of economics and economic institutions. Restricted to science and upper-division professional-school students.

Ec 215. (S) Economic Development of the United States. 4 hours.

Origin and development of economic institutions including industry, agriculture, commerce, transportation, labor, and finance. Analyzes the economic progress of the United States.

Education

***Ed 101. (S) Methods of Study. 3 hours.**

Specific methods of study as applied to various subject-matter fields; the general principles of note-taking; study schedule; fixing study habits; evaluation of the various broad fields of human learning.

Ed 312. (C) Educational Psychology. 3 hours.

Latest contributions to educational psychology from experimental education and

* This is a service course, not a professional course, and will not count toward fulfillment of requirements for certification or for a major in education.

psychology with special attention to the psychology of learning. Emphasis is placed on the results of scientific research and experimentation. Prerequisite: Psy 201, 202.

Ed 344, 345, 346. (C) Physical Education in the Elementary Grades.

1 hour each term.

Theory and practice in rhythm; singing games, group and folk dancing. Second quarter emphasis is on stunts, games, self-testing activities, tumbling, and materials. Third quarter is devoted to planning and evaluating program with reference to basic principles of physical education and state testing programs.

Ed 354. (C) Introduction to Education. 3 hours.

Introduction to the field of education, including an historical survey of the American public-school system; the importance of public education to the life of the republic; the relation of the school to other social agencies; the relationship of education to other professions; the opportunities for service in the principal fields of educational work; current issues in American education; and the desirability of having a working philosophy of education.

Engineering

GE 101, 102, 103. (S) Engineering Problems. 2 hours each term.

Lectures and elementary problems dealing with the general fields of civil, electrical, industrial, and mechanical engineering; to train the student in engineering habits of work. One lecture; 2 two-hour computation periods.

GE 121, 122. (S) Engineering Drawing. 3 hours each term.

Fundamentals of graphic composition with particular emphasis on reading and interpretation of line drawings, charts, and diagrams. Two-term course for students in business and technology. One lecture; 3 two-hour periods.

GE 123. (S) Descriptive Geometry. 3 hours.

Theory and problems on the projection of points, lines, surfaces, and solids; applications of graphical solution of engineering problems. Prerequisite: GE 121, 122. One lecture; 3 two-hour periods.

Chemical Engineering

ChE 111, 112, 113. (S) Chemical and Mineral Industry. 1 hour each term.

The professions of chemical, mining, and metallurgical engineering; engineering procedures and methods. One lecture; 1 two-hour computation period.

ChE 211. (S) Chemical Technology. 2 hours.

Fundamentals of chemical engineering; graphical analysis; instrumentation; control of process variables; applications in the solution of typical problems. Two lectures; 1 recitation.

ChE 212, 213. (S) Industrial Stoichiometry. 2 hours each term.

Quantitative interpretation and application of physical and chemical data to various industrial chemical processes. Two lectures; 1 recitation.

Civil Engineering

CE 201, 202, 203. (S) Introduction to Civil Engineering. 2 hours each term.

Fundamentals of graphic analysis, descriptive geometry, structural and topographic drafting, including field curves, in relation to the practice of structural, hydraulic, highway, and sanitary engineering. Three two-hour laboratory periods for CE 201, 202; 2 three-hour laboratory periods for CE 203.

CE 212. (S) Mechanics (Statics). 3 hours.

Applied mechanics for engineering students. Prerequisite: differential calculus. One recitation; 2 two-hour computing periods.

CE 213. (S) Mechanics (Dynamics). 3 hours.

Continuation of CE 212. Principles and problems in kinetics; force as a factor causing motion; work, energy, friction, and impact. Prerequisite: CE 212. One recitation; 2 two-hour computing periods.

CE 221. (S) Plane Surveying. 3 hours.

Theory and use of engineer's transit, tape, and level; evaluation of effect of errors on observation; application of surveying methods to problems in construction and area surveys. Prerequisite: GE 111; Mth 101. One recitation; 2 three-hour periods field work.

CE 222. (S) Plane Surveying. 3 hours.

Surveying problems relating to construction and land surveying; special computation problems in map projections; control surveys; and earthwork; tests and adjustment of engineer's transit and level. Prerequisite: CE 221. One recitation; 2 three-hour periods field and computation.

CE 223. (S) Plane Surveying. 3 hours.

Control surveys; computation of state-wide coordinates; topographic mapping; theory and use of stadia and plane table; field astronomy. Prerequisite: CE 222. One recitation; 1 six-hour field period.

CE 226. (S) Plane Surveying. 3 hours.

Theory and use of engineer's transit, tape, and level; application of surveying methods to problems in construction and area survey. Prerequisite: Mth 101. One recitation; 2 three-hour periods field work.

Electrical Engineering

EE 201, 202, 203. (S) Introduction to Electrical Engineering. 4 hours each term.

Fundamentals of magnetic and electrical fields and associated circuits and electric circuit theory. Prerequisite: Mth 103, Ph 103, GE 103, or instructor's approval. Two lectures; 2 two-hour recitations; 1 three-hour laboratory period.

Industrial Engineering

***IE 111. (S) Pattern Making. 3 hours.**

Fundamentals of pattern making; relation of pattern making to drafting, design, foundry and machine-shop operation. One lecture; 6 laboratory hour-periods.

***IE 240. (S) Foundry Practices. 2 hours.**

Introductory course covering constitution, properties, and design limitations of castings in iron and steel; foundry methods. Not open to students majoring in industrial arts. One lecture; 1 four-hour laboratory period.

IE 250. (S) Forging and Welding. 2 hours.

Forging, forming, and heat-treating of steel, followed by gas and electric-arc welding, flame cutting, brazing, and resistance-welding operations. Attention is given throughout the course to practical applications of these processes in engineering construction and industrial fabrication. One lecture; 1 four-hour laboratory period.

***IE 260. (S) Machine Shop Practices. 2 hours.**

Manipulation of basic machine tools, with prescribed projects; correlation of

*In addition to the regularly scheduled meetings in this course, the student attends three general lectures to be arranged during the term.

engineering, managerial, and manufacturing problems. Not open to students majoring in industrial arts. One lecture; 1 four-hour laboratory period.

IE 290. (S) Introduction to Scientific Management. 3 hours.

History, development, and scope of scientific management. Laws of scientific management as applied to manufacturing.

Mechanical Engineering

ME 212. (S) Mechanics (Statics). 3 hours.

Forces and force systems with reference to the equilibrium of rigid bodies; numerous problems. Prerequisite: differential calculus. Two recitations; 1 two-hour period.

ME 213. (S) Mechanics (Dynamics). 3 hours.

Continuation of ME 212. Principles and problems in kinetics; numerous problems. Prerequisite; ME 212. Two recitations; 1 two-hour period.

ME 216. (S) Materials of Engineering. 3 hours.

Production, mechanical properties, and shop processes applying to materials of machine and building construction. Corrosion resistance and other service requirements; fuels, lubricants, and water for industrial use. Two recitations; 1 laboratory demonstration period.

ME 241. (S) Introduction to Aeronautics. 2 hours.

Brief descriptive survey of principles of flight, engine and propellor operations; navigation and meteorology; government aeronautical aids and regulations. Prerequisite: consent of instructor.

English

Literature

†Eng 101, 102, 103. (U) **Survey of English Literature.** 3 hours each term.

From *Beowulf* to the present. Fall: *Beowulf* to Milton; winter: Milton to Byron; spring: Byron to the present.

†Eng 104, 105, 106. (U) **Appreciation of Literature.** 3 hours each term.

The aim is to stimulate enjoyment of literature by providing the student with a technique of appreciation. Readings over the whole range of English literature. Emphasis on appreciation rather than literary history.

Eng 107, 108, 109. (C) **World Literature.** 3 hours each term.

A sequence to acquaint the student with outstanding works of ancient, medieval, and modern literature that have had a permanent and wide appeal outside their own country. Masterpieces from the Oriental, Greek, Roman, Italian, French, Spanish, German, Scandinavian, and Russian literatures are studied, with the major emphasis on the British and American.

Eng 201, 202, 203. (U) **Shakespeare.** 3 hours each term.

The important historical plays, comedies, and tragedies. The three terms constitute a sequence but may be taken separately. Prescribed for majors.

Eng 204, 205, 206. (C) **American Literature.** 3 hours each term.

Representative American literature from its beginning to the present. The three terms constitute a sequence but may be taken separately.

†A student may register for only one of the two sequences: Eng 101, 102, 103; Eng 104, 105, 106.

Eng 271. (C) Contemporary Literature. 3 hours.

Postwar poetry, prose, and drama, with the emphasis on the development of new literary forms, new concepts, attitudes, and movements. Recent European influences. Lectures and class discussion are supplemented with reading assignments illustrating the points of emphasis.

Eng 274. (S) The Short Story. 3 hours.

The development of the American short story; analysis of recognized masterpieces and the best present-day magazine stories, with the idea of developing critical taste in reading.

Eng 276. (S) The Novel. 3 hours.

Aim is to enrich the student's background of knowledge in the field of the novel and prepare him for critical appreciation of fiction.

Written English**English K. (S)** 1 hours.

A one-term refresher course in English fundamentals. The student must pass the English placement examination or English K before he is permitted to register for any other written English course.

Eng 111, 112, 113. (S) English Composition. 3 hours each term.

Composition and rhetoric; frequent written themes in the various forms of discourse; special attention to fundamentals and to organization of papers. Prerequisite: English K or passing grade in English placement examination.

Rht 114, 115, 116. (E) Vocabulary Building. 2 hours each term.

Designed to expand the student's vocabulary and otherwise improve the use of English. A study of words: new words, the right word; diction; pronunciation; an effective program for acquiring and using the forms of writing.

Rht 117. (E) Good Usage in Writing. 3 hours.

A course in mechanics and grammar, the basic principles governing the use of language for written and spoken discourse. Course includes: (1) a brief review of grammatical forms and terms, (2) practice in recognizing and eliminating the more common faults, and (3) study of the requirements for effective communication by means of language. Recommended as preparation for Rht 111 and other writing courses, for students who have not recently had formal study of rhetoric or practice in writing.

Eng 217. (S) Business English. 3 hours.

Modern practices in business correspondence; analysis and writing of all types of correspondence. Prerequisite: Eng. 111, 112, 113.

Eng 218. (S) Creative Writing. 3 hours.

Creative expression in prose forms. For students in professional schools who desire training and practice in such writing as may be called for in their vocational or cultural pursuits. Prerequisite: Eng 111, 112, 113.

Library**Lib 117. (U) Use of the Library.** 3 hours.

Training in the use of the card catalog, periodical indexes, and reference books; experience in the preparation of bibliographies. As far as possible, problems are coordinated with the individual student's study program.

Foods and Nutrition

(See HOME ECONOMICS)

Foreign Languages

French

RL 1, 2, 3. (U) **First-Year French.** 4 hours each term.

Grammar, pronunciation, composition, conversation. Translation of prose and poetry.

RL 4, 5, 6. (U) **Second-Year French.** 4 hours each term.

Review of grammar, composition, conversation; translation of modern French authors.

German

GL 1, 2, 3. (U) **First-Year German.** 4 hours each term.

Designed to provide a thorough grammatical foundation and an elementary reading knowledge of idiomatic German.

GL 4, 5, 6. (U) **Second-Year German.** 4 hours each term.

Review of grammar, composition, conversation. Reading of modern German authors.

Spanish

RL 11, 12, 13. (U) **First-Year Spanish.** 4 hours each term.

Translation of common prose, conversation, composition, and grammar. A full course in elementary Spanish grammar, emphasizing practical conversation and simple reading.

RL 14, 15, 16. (U) **Second-Year Spanish.** 4 hours each term.

Review of Spanish grammar, composition, conversation; translation of modern Spanish authors. Practise in Spanish conversation and reading. Open to students who have had two years of high-school Spanish or who have completed one year of college Spanish.

Forestry

F 111. (S) **General Forestry.** 3 hours.

Preliminary survey of the entire field of forestry including the development of forestry in the United States and the origin and distribution of our public domain. May be elected by students in other schools.

FP 210. (S) **Wood Utilization.** 3 hours.

Adaptation to commercial uses; chief wood-using industries; relative amounts of commercial species used annually; substitutes; by-products.

F 311. (S) **Forest Land Use.** 3 hours.

Application of principles and techniques of economic planning to the problem of co-ordinating forest land uses with one another and with other forms of land use.

Geography

HG 101. (S) **Human Geography.** 3 hours.

World survey of geographic fundamentals emphasizing human adjustments to climatic conditions and physical environments; geographical regions of the world in respect to environmental conditions and human activities.

HG 102. (S) **Economic Geography.** 3 hours.

Interrelationship between the physical environment and man's productive occupations; occupational analysis of world resources; geography of international trade. Prerequisite: HG 101 or permission of instructor.

HG 103. (S) Geography of North America. 3 hours.

Regional analysis of North America, including Canada and Alaska but not Mexico. Prerequisite: HG 101 or permission of instructor.

HG 201. (S) Regional Geography of Latin America. 3 hours.

Regional analysis of Latin America, including Mexico and Caribbean America; emphasis on trade relationships and development in Latin American nations. Prerequisite: HG 101 or permission of instructor.

HG 202. (S) Regional Geography of Europe. 3 hours.

Study of Europe, including Mediterranean regions of North Africa but not U. S. S. R. For each region emphasis is on human and economic adjustments to environment that have been or may be achieved in future. Prerequisite: HG 101 or permission of instructor.

HG 203. (S) Regional Geography of Asia. 3 hours.

Regional study of Asiatic continent including all of the U. S. S. R. and Japan; geographic regions with emphasis on human and economic conditions and implications of geography for present and future. Prerequisite: HG 101 or permission of instructor.

HG 211. (S) Regional Geography of Pacific Northwest. 3 hours.

Analysis of human and economic geography of Pacific Northwest with special attention to Oregon. Includes field study. Prerequisite: HG 101.

Geology**G 201, 202, 203. (S) Geology. 3 hours each term.**

Processes of nature by which earth's surface has been built up, deformed, and torn down; natural history and occurrence of common rocks and useful minerals; outline of history of earth and life.

History**Hst 101, 102, 103. (U) History of Western Civilization. 3 hours each term.**

Origins and development of Western civilization from ancient times to the present.

Hst 201, 202, 203. (U) History of the United States. 3 hours each term.

From colonial times to the present day.

Hst 204. (S) History of the Far East. 3 hours.

Aim is to introduce students to the history, civilization, and political, economic, cultural, and social problems of China, Japan, India, and the Pacific Islands. Applies toward group requirement in Social Science.

Hst 206. (S) Modern Russia. 3 hours.

Aims to enrich student's knowledge of political, diplomatic, economic, and social development of Russia from the revolution of 1905 to the present. Prerequisite: Hst 201, 202, 203 or special consent of instructor.

Hst 207, 208, 209. (U) English History. 3 hours each term.

A general survey, covering political, economic, social, intellectual, and religious developments.

Hst 209. (S) The World Since 1914. 3 hours.

Origin and background of the Second World War; course of the war; problems of American war mobilization; war aims and post-war planning. With Hst 207, 208 satisfies group requirement in Social Science. Prerequisite: Hst 201, 202, 203 or special consent of instructor.

Hst 224, 225, 226. (S) History of American Civilization. 3 hours each term.

The rise and development of American civilization from the beginning to the present; special attention to economic, social, and cultural life, political changes, and international relations.

Hst 230, 231, 232. (S) Great Americans in Thought and Action.

2 hours each term.

A study in personality and leadership of men and women who have been outstanding in various fields of endeavor, great movements, and critical periods.

Hst 377. (S) History of Oregon. 3 hours.

Aims to present a fairly detailed survey of the political, economic, social, and cultural development of Oregon and the Pacific Northwest from the beginning to the present.

Home Economics***Clothing, Textiles, and Related Arts******CT 111. (S) Elementary Clothing.** 3 hours.

Fundamental processes of hand and machine sewing; selection and construction of simple garments and household articles. Six periods laboratory work.

CT 211. (S) Clothing (Selection). 3 hours.

Artistic and economic factors in the selection of adult clothing; wardrobe needs of the college girl. Prerequisite: AA 160. Two lectures; 1 two-hour laboratory period.

CT 231. (S) Home Furnishing. 3 hours.

Elective for students other than home economics majors. Aims to develop appreciation of beauty and suitability in home furnishings; materials and processes involved. Three two-hour laboratory periods.

CT 250. (S) Textiles. 3 hours.

Properties, uses, selection, and care of textile fibers and fabrics. No prerequisite, but chemistry is desirable. Two lectures; 1 two-hour laboratory period.

Foods and Nutrition**FN 225. (S) Nutrition.** 3 hours.

Nutritive value of foods from the standpoint of newer scientific investigations; selection of an optimal diet for health; present-day problems in nutrition; recent trends in American dietary habits.

Household Administration**HAd 101. (S) Introduction to Home Economics.** 1 hour.

Aims to orient beginning students in the field of home economics and to assist them in adjusting themselves to college life.

HAd 222. (S) Family Relationships. 3 hours.

To give a better understanding of the problems of present-day family life. Open to both men and women. Prerequisite: sophomore standing. Two recitations.

HAd 225. (S) Child Care. 3 hours.

Growth, development, and care of the young child; observations in the nursery school. For students not in home economics degree curricula.

*A home project in clothing construction is required of all students who have completed CT 111 before enrolling for CT 212.

Industrial Arts

(See ENGINEERING)

Prejournalism

J 211, 212, 213. (U) **Elementary Journalism.** 3 hours each term.

The American newspaper; its place in the social order; its methods and techniques. Fundamentals of reporting, interviewing, news analysis, note taking, news gathering, news writing.

J 211. (S) **Copyediting.** 3 hours.

Copy reading, head writing, proof reading, and make-up; actual experience in editing copy.

J 223. (S) **Editorial Writing.** 3 hours.

Materials, style, and arrangement of periodical editorials; training in writing editorials; policy and ethics; make-up of editorial page of farm and trade journals.

J 311. (U) **Backgrounds of Publishing.** 3 hours.

Printing, history, traditions, techniques. Graphic-art processes, art media, etching, halftones, lithography, offset, gravure. Laboratory.

J 312. (U) **Backgrounds of Publishing.** 3 hours.

Newspaper advertising; local, general, classified, legal. Techniques of space selling. Elementary retail advertising; layout, copy, use of mat services, rates, contracts. Laboratory.

J 313. (U) **Backgrounds of Publishing.** 3 hours.

Weekly newspaper management; income sources, newspaper-business law, official newspapers, postal regulations, newspaper merchandising, commercial printing, cost accounting, and bookkeeping. Laboratory.

Library

(See ENGLISH)

Mathematics

Mth 5. (S) **Elementary Mathematics.** 2 hours winter term only.

A short course in numerical calculations, elements of algebra and trigonometry, designed to aid students in elementary science courses.

Mth 10. (S) **Elementary Algebra.** 4 hours.

For students entering with less than one year of elementary Algebra. Open to others only on recommendation of the department. May not be taken for credit after completion of other courses in college mathematics.

Mth 20. (S) **Elementary Geometry.** 4 hours.

For students entering with less than one year of high-school geometry.

Mth 100. (S) **Intermediate Algebra.** 4 hours.

Prerequisite: one year of high-school algebra.

Mth 101, 102, 103. (S) **Elementary Analysis.** 4 hours each term.

Trigonometry, graphs, algebra, elements of calculus, and analytical geometry.

Mth 105. (U) **College Algebra.** 4 hours.

Prerequisite: one and one-half years of high-school algebra or Mth 100.

Mth 108. (U) **Mathematics of Finance.** 4 hours.

Simple and compound interest and discount, annuities, periodic-payment plans,

bonds, depreciation, and other topics related to business. Prerequisite: Mth 101 or Mth 105.

Mth 109. (S) Elements of Statistics. 4 hours.

Mth 201, 202, 203. (S) Differential and Integral Calculus. 4 hours each term.

First term: basic differentiation; introductory work in integration with applications to mechanics. Second term: some further applications of differentiation: methods of integration, applications. Third term: series, Taylor's theorem; partial differentiation; multiple integrals with applications. Prerequisite: Elementary Analysis or equivalent.

Mth 211. (C) Foundations of Mathematics. 3 hours.

Treatment of historical aspects of mathematics, social uses and relationships, mathematical principles and relationships, grade placement of content materials, appraisal of texts, workbooks, and tests, development of problem solving ability, and proficiency in the fundamental skills of mathematical processes.

Mth 230. (S) Spherical Trigonometry and Rudiments of Navigation. 2 hours.

The solution of the basic spherical triangles with applications to problems in navigation. Prerequisite: Mth 101 or equivalent.

Medical and Dental Assistantship

MD 290. (C) Office Apprenticeship. 4 hours.

Practical work experience under appropriate supervision, with directed corollary readings. Conducted through cooperation of local physicians and dentists.

Music

Mus 111, 112, 113 (S) Theory. 3 hours each term.

Music fundamentals, scales, key relationships, intervals, triads; harmonizations of various triad and seventh chords in all positions, nonchord tones, free harmonization and simple modulation; keyboard work, chord recognition, sight-singing, and analysis correlated with written work. Five periods.

Mus 127, 128, 129. (E) Appreciation of Music. 2 hours each term.

A nontechnical study of the development of music, stressing the elements of musical understanding; study of representative compositions, with emphasis on their musical and historical significance.

Mus 281. (C) Music I. Introductory Course in Music. 3 hours.

A musical background for the elementary-grade teacher; singing varied types of song literature; 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.

Mus 282. (C) Music II. Music Reading and Ear Training. 3 hours.

Acquiring more skill in reading song material; more advanced rhythmic patterns; major and minor modes; two-, three-, and four-part music; chording, ear training.

Mus 290. (S) The College Chorus. 1 hour each term.

Membership is open to all students in the Center, subject to tryout. Public programs are presented.

Mus 232. (C) History of Music. 3 hours.

Evolution of music from primitive man; development of church music; development of instruments; a study of the masters of music including twentieth-century music and musicians.

Nursing Education

Nur 111. (U) **Backgrounds of Nursing.** 3 hours.

The historical background of modern social and health movements; the relation of these to the evolution of nursing as a profession.

Nur 230. (U) **Home Nursing.** 2 hours.

Home care of the sick; demonstration of ordinary nursing techniques under home conditions; improving equipment. Designed primarily for students who are not preparing for professional nursing. 1 lecture; 3 hours laboratory.

Nutrition

(See HOME ECONOMICS)

Physical Education**Service Courses**

PE 180. (U) **Elementary and Advanced Physical Education.**

1 hour each term, six terms.

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms required during the freshman and sophomore years for all women. 3 periods.

PE 190. (U) **Elementary and Advanced Education.** 1 hour each term, six terms.

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms required of all men during the freshman and sophomore years. 3 periods.

HE 250. (U) **Personal Health.** 2 or 3 hours.

Exercise, nutrition, infection and resistance, special senses, mouth hygiene, sex hygiene, rest and sleep, fresh air and sunshine. Satisfies the health-education requirement.

HE 251. (U) **Community Health.** 3 hours.

Water supply, food and milk sanitation, ventilation, sewage disposal, lighting, housing, health agencies, health laws, insect and rodent control.

HE 252. (U) **First Aid.** 3 hours.

American Red Cross first aid; lectures, demonstrations, and practice leading to standard and advanced first-aid certificates.

Professional Courses

PE 127. (U) **Fundamentals of Body Movement and Conditioning (Men).**

2 hours. For majors.

PE 128. (U) **Elementary Tumbling and Apparatus (Men).** 2 hours.

For majors.

PE 129. (U) **Track and Field (Men).** 2 hours.

For majors. Basic principles of conditioning; skills of track and field events.

PE 227. (U) **Elementary Aquatics (Men).** 2 hours.

For majors. Elementary swimming, diving.

PE 228. (U) **Elementary Combatives (Men).** 2 hours.

For majors. Wrestling, boxing, judo.

PE 229. (U) **Team Sports (Men).** 2 hours.

For majors. Soccer, speedball, softball.

Physics

Ph 101, 102, 103. (S) **Engineering Physics**. 3 hours each term.

Studies in general physics adapted to students in engineering. This sequence is offered each term if demand is sufficient. One lecture; 2 recitations; 2 one-hour laboratory periods.

Ph 201, 202, 203. (S) **General Physics**. 4 hours each term.

Mechanics, sound, heat, light, electricity, and magnetism. Two lectures; 2 recitations; 1 two-hour laboratory period.

Ph 204, 205, 206. (S) **Astronomy**. 3 hours each term.

Descriptive treatment. Coordinate system; astronomical instruments; the solar system; star types and groupings. Two lectures; 1 two-hour laboratory period.

Ph 330. (S) **Fundamentals of Radio**. 3 hours.

Underlying principles; vacuum tubes; circuits; antennas and wave propagation; construction and use of transmitting and receiving equipment. Prerequisite: one year of college physics. One lecture; 2 two-hour laboratory periods.

Ph 361. (S) **Photography**. 3 hours.

The hand camera, developing, printing, toning, enlarging, slides. Prerequisite: college chemistry or physics or previous photographic experience, with consent of instructor. One lecture; 2 two-hour laboratory periods.

Ph 362. (S) **Photography**. 3 hours.

Commercial phases of photography; view cameras, copying, flashlights, indoor lighting, color correction, distant views, etc. Prerequisite: Ph 361. One lecture; 2 two-hour laboratory periods.

Ph 363. (S) **Photography**. 3 hours.

The making of pleasing pictures; composition, carbon and carbonyl printing, paper negatives, diffusion, enlarging negatives, etc. Prerequisite: Ph 361. One lecture; 2 two-hour laboratory periods.

Political Science

PS 201, 202, 203. (U) **American Governments**. 3 hours each term.

Fall and winter: national government. Spring: state and local governments.

PS 204. (U) **European Governments**. 3 hours.

A survey of the constitutions and governmental operations of selected democratic and nondemocratic governments in Europe, including the governments of Britain, France, and the Soviet Union.

PS 205. (U) **International Relations**. 3 hours.

Analysis of the nature of relations among states, with particular reference to contemporary international issues; a study of motivating factors, including nationalism, imperialism, economic rivalries, quest for security, etc.; study of the problem of national sovereignty and its relation to international cooperation.

PS 231, 232, 233. (S) **Current Affairs**. 2 hours each term.

Designed to acquaint student with current political, economic, and sociological problems and developments that arise on both domestic and international levels, and to encourage objective analysis and discussion of these events in order to mold responsible citizens. Open to freshmen and sophomores.

Psychology

Psy 111. (S) **Mental Hygiene**. 3 hours.

Conditions of healthy mental development and of effective reactions to life and

college environment; habits, attitudes, and reactions of the efficient mind. No credit is given to students who have taken Ed 102.

Psy 201, 202. (U) General Psychology. 3 hours each term.

Introductory study of behavior and conscious processes. Survey of experimental studies with reference to motivation, learning, thinking, perceiving, and individual differences.

Psy 204. (U) Psychology of Adjustment. 3 hours.

The nature and origins of differences in personality; means of making desired changes. Prerequisite: Psy 201, 202.

Psy 205. (U) Applied Psychology. 3 hours.

A survey of the ways in which psychology is applied in advertising, salesmanship, market research, measurement of opinion, occupational placement, development of personal efficiency. Prerequisite: Psy 201, 202.

Psy 208, 209, 210. (U) General Psychology Laboratory. 1 hour each term.

Introduction to experimental methods. Laboratory work coordinated with Psy 201, 202, Psy 204, Psy 205. 1 laboratory period each week.

Psy 215. (S) Industrial Psychology. 3 hours.

Application of psychology to business and industrial problems; measurement, prediction, and influence of individual and group behavior; industrial psychology research. Intended primarily for students in agriculture, engineering, etc.

Public Speaking

(See DRAMA, SPEECH)

Rhetoric

(See ENGLISH)

Science

(See also BOTANY, CHEMISTRY, PHYSICS, ZOOLOGY)

GS 101, 102, 103. (S) Biological Science Survey. 4 hours each term.

The fundamental principles of biology as they apply to both plants and animals. For general students and those majoring in fields other than biology. Three lectures 1 one-hour laboratory period.

GS 104, 105, 106. (S) Physical Science Survey. 4 hours each term.

Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. Three lectures; 1 one-hour laboratory-recitation period.

Secretarial Science

SS 111, 112, 113. (S) Stenography. 3 hours each term.

Theory of shorthand; practical applications in sentence dictation. SS 121, 122, 123 must be taken concurrently unless the student has had the equivalent. Students with one year of shorthand are not permitted to take course SS 111 for credit. Four recitations.

SS 121, 122, 123. (S) Typing. 2 hours each term.

Theory and practice of touch typing; rhythmical drills, dictation exercises; writing paragraphs; punctuation and mechanical arrangement of business correspondence, legal forms, tabulating, manifold, speed practice. Students with at least one

year of typing are not permitted to take SS 121 for credit. Five periods laboratory work.

SS 131. (S) Business Forms and Reports. 2 hours.

Planning and typing business papers, manuscripts, statistical tables, and reports. Speed typing is emphasized.

SS 211, 212, 213. (S) Applied Stenography. 3 hours each term.

Advanced principles and phases; dictation and transcripts covering vocabularies of representative businesses; legal forms; newspaper and magazine articles. Prerequisite: SS 113, 123 or equivalent. Three recitations; 3 one-hour laboratory periods.

SS 241, 242, 243. (C) Office Practice. 3 hours each term.

Actual office experience on the job in dictation, transcription, typing, and filing, making routine and statistical reports, use of office equipment and machines, and practice in meeting the public.

SS 254, 255. (C) Business Law. 3 hours each term.

Application of fundamental legal principles to typical business situations illustrated by selected cases. Formation, interpretation, and discharge of contracts. The law of bankruptcy, insurance, and suretyship. The law of agency, the law of Negotiable instruments, consideration, delivery, rights and liabilities of parties, the law of real property mortgages, landlord and tenants, and chattel mortgages.

Social Science

(See also ANTHROPOLOGY, ECONOMICS, EDUCATION, HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, AND SOCIOLOGY)

SSc 101, 102, 103. (U) Background of Social Science. 3 hours each term.

Orientation in each of the social sciences; study of the method of science and its application to the social studies; attempts to create in the student the urge to independent thought through wide reading.

Sociology

Soc 204, 205, 206. (U) General Sociology. 3 hours each term.

Fall and winter: the basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Spring: analysis of major social problems in terms of the basic concepts developed during the first two terms. Prerequisite: sophomore standing or consent of instructor.

Soc 212. (S) General Sociology. 3 hours.

An abridgment of Soc 201, 202, 203. Not open to students who have taken Soc 201, 202, 203.

Speech

Sp 111, 112, 113. (S) Extempore Speaking. 3 hours each term.

Development and presentation of original speeches; vocabulary building; pronunciation; voice, gesture, bearing; organization; delivery.

Sp 114 (U) Voice and Diction. 3 hours.

Study and practice of the principles of tone production. Phonetic analysis of English sounds as a basis for correct and effortless diction. Intended for students who have slight deviations in voice and diction.

- Sp 121. (S) **Interpretation I.** 3 hours.
Fundamental training in analysis and presentation of printed materials; emotional reactions that give color and interest; expressive voice and body; correction of erroneous habits.
- Sp 122. (S) **Interpretation II.** 3 hours.
Continuation of Sp 121. Interpretation of more advanced literary materials; intensive work in characterization. Prerequisite: Sp 121.
- Sp 123. (S) **Interpretation III.** 3 hours.
Advanced work in expressive body and voice; choral reading, interpretation of dramatic literature. Prerequisite: Sp 121, 122.
- Sp 211. (S) **Oratory Squad.** 3 hours.
Original manuscript speeches; preparation for intercollegiate competition. Prerequisite: Sp 111, 121; consent of instructor.
- Sp 214. (S) **Extempore Speaking Squad.** 3 hours.
Preparation for intercollegiate competition. Prerequisite: Sp 111, 112; consent of instructor.
- Sp 217. (S) **Debating.** 3 hours.
Argumentation principles; analysis and brief-drawing; debate participation. Prerequisite: consent of instructor.
- Sp 221. (U) **Public Discussion.** 2 hours.
Preparation of speeches for delivery before public audiences.
- Sp 231. (S) **Parliamentary Procedure.** 3 hours.
Parliamentary usage applied in deliberative assembly, conferences, symposium, and panel discussion. Students serve as chairman and secretary of meetings. Practice discussions and procedure.
- Sp 241. (U) **Survey of Broadcasting.** 2 hours.
General survey of broadcasting; technical equipment used for broadcasting, types of programs, radio laws and policies affecting the industry, analysis of audience characteristics, radio terminology.
- Sp 244. (S) **Stagecraft and Lighting.** 3 hours.
Construction of scenery and stage properties; lighting and lighting equipment; practical experience in lighting, stage management, construction of settings, including realistic and suggestive.
- Sp 247, 248, 249. (S) **Community Drama.** 3 hours each term.
Training for participation and leadership in community dramatics; the community-drama idea; play selection; stage technique and acting; costume and make-up; short cuts in craftsmanship; directing and play production. Prerequisite: Sp 121.
- Sp 251. (S) **Workshop Theater.** 1 to 3 hours.
For participation in campus plays, credit totaling not more than 6 hours is given on recommendation of the instructor. Prerequisite: consent of instructor.
- Sp 264, 265, 266. (U) **Appreciation of Drama.** 2 hours each term.
Study of design, acting, playwriting, criticism. Appreciation of drama, motion picture, and radio plays as art forms.

Zoology

- Z 101, 102, 103. (S) **Human Biology.** 3 hours each term.

Man's place in animal kingdom; human anatomy and physiology; development,

heredity, evolution; relations to diseases and parasites; human ecology. Two lectures; 1 two-hour laboratory period.

Bi 201, 202, 203. (U) **General Zoology**. 4 hours each term.

A study of the fundamental principles of animal biology. 2 lectures; 2 two-hour laboratory periods.

Z 233. (S) **Elementary Physiology**. 5 hours.

For students in medical technicians' curriculum and others desiring a general course in human physiology. Three lectures; 2 laboratory periods.

Z 324, 325. (S) **Comparative Vertebrate Anatomy**. 4 hours each term.

Gross dissection and comparison of organ systems in representative vertebrate forms. Prerequisite: Z 201, 202, 203. Two lectures; 2 three-hour laboratory periods.

Z 236. (S) **Comparative Vertebrate Embryology**. 4 hours.

Comparative study of the development of several representative vertebrate forms. Prerequisite: Z 201, 202, 203. Two lectures; 2 three-hour laboratory periods.

Extension

Through extension services the benefits of all the Oregon State institutions of higher education are brought to the people of the state in their own communities. All divisions of the Oregon State System of Higher Education seek through every means possible, so far as resources and facilities permit, to serve the entire state. All extension activities of the several institutions are administered through two coordinated extension services: the General Extension Division and the Federal Cooperative Extension Service.

General Extension Division

Administration

JOHN FRANCIS CRAMER, D.Ed.

Dean and Director of General Extension; Professor of Education.

HENRY EUGENE STEVENS, D.Ed.

Assistant Director of General Extension; Associate Professor of Education.

DOROTHY DOERING SMITH, B.A.

Eugene Office Manager; Instructor in Extension Teaching.

Correspondence Study

MOZELLE HAIR, B.A.

Head of Correspondence Study; Assistant Professor of Sociology.

ARLETTA PENNY,

Secretary.

State-Wide Extension Classes

VIRON A. MOORE, M.A.

Head of State-Wide Classes; Assistant Professor of Education.

HOWARD JOHN AKERS, M.A.

Field Representative; Instructor in Education.

JAMES CARL CAUGHLAN, Ph.D.

Assistant Professor of Education.

ROBERTA JONES, B.A.

Instructor in Art Education.

JENNELLE MOORHEAD, M.A.

Associate Professor of Health Education.

VICTOR N. PHELPS, M.A.

Field Representative; Assistant Professor of Education.

MYRTLE S. SPANDE, M.S.

Assistant Professor of Physical Education.

RUTH HOPSON, Ph.D.

Instructor in General Science.

HELEN BROWN.

Secretary; Instructor in Extension Teaching.

Portland Extension Center**MARGARET MORRISON SHARP.**

Director; Assistant Professor of Extension Teaching.

HELEN WILDERMAN, A.B.

Secretary; Instructor in Extension Teaching.

ALFRED POWERS, B.A.

Professor of Journalism.

PERCY M. COLLIER, B.A., LL.B.

Associate Professor of English.

HOYT C. FRANCHERE, M.A.

Associate Professor of English.

WESLEY L. HUNNER, M.A.

Assistant Professor of English.

PHILIP WOOD JANNEY, B.A., C.P.A.

Associate Professor of Business Administration.

LOUIS F. JUDKINS, B.J.

Manager of Information Services; Instructor in Journalism.

JACK R. PARSONS, M.S.

Assistant Professor of Sociology and Social Work.

CLARK P. SPURLOCK, M.A.

Veterans' Counselor.

Radio Station KOAC**JAMES M. MORRIS, B.S.**

Program Manager; Associate Professor of Radio Speech.

LEONA M. STRINGFELLOW, M.S.

Director of Women's Programs; Assistant Professor of Home Economics Extension.

JAMES S. NELSON.

Production Manager; Instructor in Radio Speech.

ARNOLD EBERT, B.S.

Director of Agricultural Programs; Assistant Professor of Agricultural Extension.

LANA LU HULL, A.B.

Director of KOAC School of the Air.

CLINTON A. GRUBER, B.S.

Chief Announcer; Instructor in Radio Speech.

JAMES M. JACKSON.

Director of Music; Instructor in Radio Speech.

DORICE STEWART.

Secretary.

Visual Instruction

WILLIAM CURTIS REID, Ph.D.

Head of Department; Associate Professor of Visual Instruction.

RUSSELL M. ADAMS, M.S.

Specialist in Visual Aids; Assistant Professor of Visual Instruction.

EVELYN DEMPSEY.

Secretary.

Vanport Extension Center

STEPHEN E. EPLER, Ph.D.

Director; Assistant Professor of Education.

PHIL S. PUTNAM, Ed.D.

Assistant Director; Instructor in Economics.

RICHARD B. HALLEY, M.A.

Men's Adviser.

JOSEPH V. HOLLAND, M.A.

Athletic Director.

LESLIE B. NEWHOUSE, B.S.

Business Manager; Instructor in Business Administration.

The General Extension Division of the Oregon State System of Higher Education serves the people of the state through adult education by means of extension classes, correspondence study, visual instruction, and radio, and administers advertising and promotion for the summer sessions for the institutions of the State System. Its work is organized into the follow-

ing departments: At Corvallis—Visual Instruction; Radio Station KOAC. At Eugene—Correspondence Study; State-Wide Extension Classes. At Portland—Portland Extension Center; Vanport Extension Center; Summer Sessions.

A State-Wide Campus

Through the General Extension Division the curricula, personnel, and facilities of all the state institutions of higher education are made available in some degree to every citizen, group, and community in Oregon. The activities of the General Extension Division are closely coordinated with those of the Federal Cooperative Extension Service and all other organized service agencies in the state.

Portland Extension Center

General Extension in Portland is carried on through the Portland Extension Center. More than four hundred evening courses in thirty-two different departments and professional schools were offered during the academic year 1948-49. The work of these classes is of standard college or university grade. Resident credit at the State College, the University, or the state colleges of education may be earned through these courses. Courses may be taken at the Portland Extension Center for graduate credit toward a master's degree at the State College or the University. Detailed information is published in the Portland Extension Center Announcements.

State-Wide Extension Classes

Through its program of state-wide extension classes the General Extension Division provides the people of the state of Oregon with opportunities for college instruction and educational growth in their home communities. Courses will be organized in any community which can furnish a suitable meeting place for a class and can give assurance of an enrollment large enough to pay, through course fees, the cost of providing an instructor. The state-wide extension program includes both college-credit and non-credit courses.

Correspondence Study

Study at home under competent supervision is possible for any adult through carefully organized courses of instruction prepared by members of the faculties of the Oregon State System of Higher Education. These lesson outlines take the place of lectures and class exercises given to students in residence. More than two hundred courses in a wide variety of

subjects are offered. Courses may be taken without credit by persons who enjoy the intellectual stimulus of organized, directed study, or they may be taken for credit toward a college degree. There are no special entrance requirements for correspondence courses; any adult who has sufficient preparation to profit from them may enroll. Complete information is published in a special Correspondence Study Catalog.

Visual Instruction

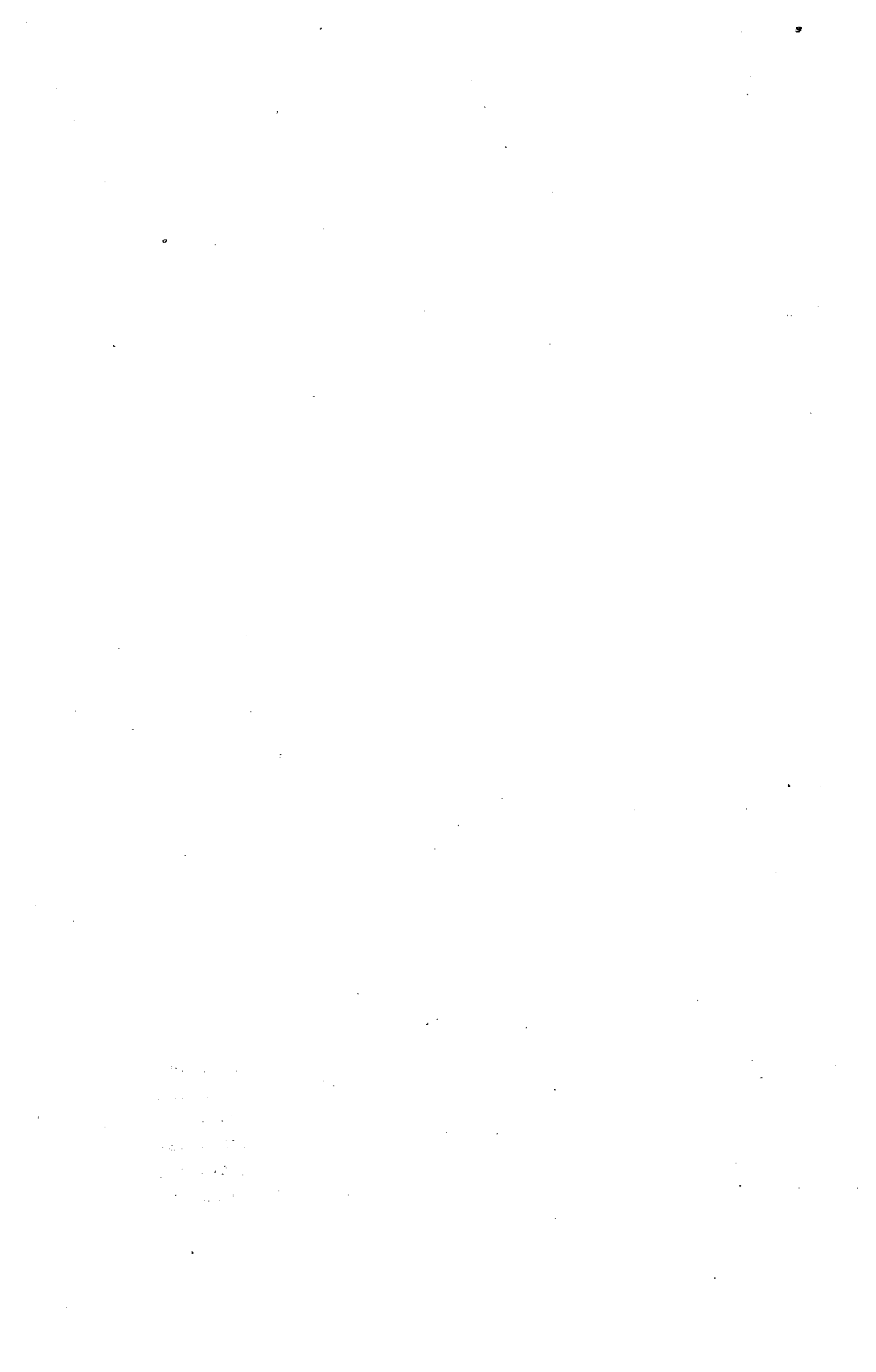
The Department of Visual Instruction of the General Extension Division provides glass and film slides, microscopic slides, and motion picture films suitable for educational use by schools, community clubs, and other organizations. A special catalog is published listing the materials available. This department is maintained jointly by the General Extension Division and the Federal Cooperative Extension Service.

Radio Station KOAC

Radio Station KOAC is Oregon's public-owned station of which the State Board of Higher Education is the managing agency. The station is located at Corvallis, on the campus of Oregon State College, the licensee and operator of the physical plant. The General Extension Division of the State System of Higher Education directs the program service. Program talent is drawn from Oregon State College, the University of Oregon, the Oregon colleges of education, and from various departments of the state government. In addition, many other public agencies, organizations, and individuals contribute frequently to broadcasts from the station. The station, established in 1925, is operated in the interest of the Oregon public. The programs are free from commercialism. KOAC operates with 5,000 watts power daytime, 1,000 watts power evening, on a frequency of 550 kilocycles by authority of the Federal Communications Commission. Announcements of radio programs are issued periodically and will be furnished on request. Studios are located at Corvallis and Eugene.

Summer Sessions

Publicity for the summer sessions of the several institutions is administered by the General Extension Division. The State College, the University, the three colleges of education, the Vanport Extension Center, and the Portland Extension Center each offer a summer session of eight weeks. The summer session of the Institute of Marine Biology is also eight weeks in length. Both undergraduate and graduate courses are offered at the University, State College, and Portland sessions. Information concerning the summer sessions is issued in separate bulletins.



enrollment in general extension division

JULY 1, 1947—JUNE 30, 1948

	<i>Under- graduate</i>	<i>Graduate</i>	<i>Total</i>
Portland Extension Center	4,353	484	4,837
Vanport Extension Center	1,961	---	1,961
State-Wide Classes:			
Albany	85	18	103
Astoria	45	---	45
Baker	44	---	44
Bend	55	2	57
Clatskanie	19	---	19
Colton	18	---	18
Coos Bay	118	---	118
Coquille	125	---	125
Corvallis	164	5	169
Cottage Grove	37	---	37
Creswell	21	---	21
Dallas	32	---	32
Drain	20	---	20
Enterprise	19	---	19
Eugene	884	53	937
Florence	38	---	38
Forest Grove	49	---	49
Grants Pass	69	1	70
Hermiston	43	---	43
Hillsboro	74	12	86
Hood River	90	---	90
John Day	26	---	26
Junction City	23	---	23
Klamath Falls	293	18	311
La Grande	14	12	26
Lakeview	19	---	19
Lebanon	74	7	81
McMinnville	59	---	59
Malin	13	---	13
Medford	95	19	114
Milton	34	---	34
Myrtle Creek	19	---	19
Myrtle Point	27	---	27
Newberg	30	26	56
Newport	43	---	43
Nyssa	25	---	25

	<i>Under- graduate</i>	<i>Graduate</i>	<i>Total</i>
Ontario	102	---	102
Oregon City	35	6	41
Pendleton	62	---	62
Portland	11	7	18
Prineville	55	---	55
Redmond	22	---	22
Roseburg	131	22	153
Salem	281	43	324
Seaside	27	---	27
Springfield	104	---	104
Stayton	34	---	34
St. Helens	74	4	78
Sweet Home	16	---	16
Taft	18	---	18
The Dalles	37	---	37
Tillamook	53	---	53
Toledo	24	---	24
Vernonia	22	---	22
Woodburn	20	---	20
Out-of-State:			
Boise, Idaho	40	---	40
Total, State-Wide Classes	4,011	255	*4,266
Correspondence Study	4,547	---	*4,547
Grand Total, General Extension Division	14,872	739	*15,611

* Includes 289 who took combination class and correspondence-study courses.

state board of higher education

R. E. KLEINSORGE, Silverton • 1950 (*Term Expires*)

GEORGE F. CHAMBERS, Salem • 1951

LEIF S. FINSETH, Dallas • 1952

PHIL METSCHAN, Portland • 1953

HENRY F. CABELL, Portland • 1954

EDGAR W. SMITH, Portland • 1955

A. S. GRANT, Baker • 1956

CHERYL S. MACNAUGHTON, Portland • 1957

HERMAN OLIVER, John Day • 1958

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EDGAR W. SMITH, *President*

R. E. KLEINSORGE, *Vice-President*

Executive Committee

EDGAR W. SMITH

R. E. KLEINSORGE

LEIF S. FINSETH

Chancellor

PAUL C. PACKER

Secretary

CHARLES D. BYRNE

Offices

Eugene, Oregon

officers of administration

PAUL C. PACKER, Ph.D., LL.D., Chancellor

FREDERICK MAURICE HUNTER, Ed.D., LL.D., Honorary Chancellor

HARRY K. NEWBURN, Ph.D., President, University of Oregon

AUGUST LEROY STRAND, Ph.D., President, Oregon State College

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ELMO NALL STEVENSON, Ed.D.,

President, Southern Oregon College of Education

ROBEN JOHN MAASKE, Ph.D., President, Eastern Oregon College of Education

Office of the Chancellor

CHARLES DAVID BYRNE, Ed.D., Assistant to the Chancellor

RICHARD LYLE COLLINS, M.A., C.P.A., Budget Director

L. MELVIN LESTER, B.A., Editorial Assistant, Division of Information

ISABEL DAVIS, B.A., Administrative Assistant

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JOHN L. WATSON, B.B.A., C.P.A., Assistant Comptroller

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THOMAS FRANCIS ADAMS, B.S., Cost Accountant and Property Custodian

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PAUL B. JACOBSON, Ph.D., Director of High-School Teacher Training

HENRY M. GUNN, Ed.D., Director of Elementary Teacher Training

General Extension Division

JOHN FRANCIS CRAMER, D.Ed., Dean and Director of General Extension

HENRY EUGENE STEVENS, D.Ed., Assistant Director of General Extension

Libraries

WILLIAM HUGH CARLSON, M.A., Director of Libraries

ELZIE VANCE HERBERT, Head of Orders Department

MARIE HULL JACKSON, B.A., B.S. in L.S., Cataloger for Union Catalog

High-School Relations

E. DEAN ANDERSON, M.A., Executive Secretary

**oregon
state
system
of
higher
education**

Organized in 1932 by the State Board of Higher Education following a Federal survey of higher education in Oregon, the System includes all the state-supported institutions of higher learning. The several institutions are now elements in 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 the University of Oregon at Eugene, Oregon State College at Corvallis, the Oregon College of Education at Monmouth, the Southern Oregon College of Education at Ashland, and the Eastern Oregon College of Education at La Grande. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland.

Each of the five institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education general and professional studies are combined in the teacher-training curriculum; students who do not plan to become elementary-school teachers may devote their time exclusively to lower-division studies in the liberal arts and sciences or (at Southern Oregon and Eastern Oregon colleges of education) to approved lower-division programs in semiprofessional fields.

At the University and the State College two years of unspecialized work in liberal arts and sciences are provided on a parallel basis in the lower division. 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.