General Extension Division

BULLETIN

Vanport Extension Center

Portland, Oregon

Oregon State System of Higher Education

1951-52

General Extension Division

Bulletin

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Vanport Extension Center

ANNOUNCEMENTS 1951-52

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

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-education 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.

The General Extension Division makes available on a state-wide basis many of the courses and services of the campus institutions and provides other educational services. The General Extension Division operates: the program services of the state-owned radio station KOAC located at Corvallis; the Portland Extension Center which offers more than four hundred evening courses; state-wide extension classes organized in many communities; community colleges in cooperation with local school districts; correspondence instruction in more than three hundred courses on both high-school and college levels; the Department of Visual Instruction which provides motion picture films, microscopic slides, and other visual material suitable for use by schools, community clubs, and other organizations; the Vanport Extension Center which provides lower-division work for full-time day students; and the Portland Summer Session which offers both graduate and undergraduate courses in an eight-week summer session.

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1951

September

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Academic Calendar

Fall Term, 1951-52

September 14 and 15, *Friday* and *Saturday*
Placement examinations for beginning freshmen.

September 17, *Monday*
Registration for former Vanport students.

September 18, *Tuesday*
Registration for freshmen and students entering Vanport for first time with last names beginning with M-Z.

September 19, *Wednesday*
Registration for freshmen and students entering Vanport for first time with last names beginning with A-L.

September 20, *Thursday*
Classes begin.

October 6, *Saturday*
Last day for new registrations, for addition of new courses, or for dropping courses without being responsible for grades.

October 27, *Saturday*
Last day for withdrawing from college without being responsible for grades.

November 2, 3, and 4, *Friday*, *Saturday*, and *Sunday*
Homecoming and Open House Activities.

November 22-25, *Thursday* to *Sunday*
Thanksgiving recess.

December 11-15, *Tuesday* to *Saturday*
Fall term examinations.

December 15, *Saturday*
Fall term ends.

Winter Term, 1951-52

January 2, *Wednesday*
Registration.

January 3, *Thursday*
Classes begin.

January 16, *Wednesday*
Last day for new registrations, for addition of new courses, or for dropping courses without being responsible for grades.

February 2, *Saturday*
Last day for withdrawing from college without being responsible for grades.

March 14, 15, 17, 18, *Friday*, *Saturday*, *Monday*, and *Tuesday*
Winter term examinations.

March 18, *Tuesday*
Winter term ends.

Spring Term, 1951-52

March 24, *Monday*
Registration.

March 25, *Tuesday*
Classes begin.

April 7, *Monday*
Last day for new registrations, for additions of new courses, or for dropping courses without being responsible for grades.

April 26, *Saturday*
Last day for withdrawing from college without being responsible for grades.

May 22, *Thursday*
Sixth Anniversary Observance.

May 30, *Friday*
Memorial Day, holiday.

June 3-7, *Tuesday* to *Saturday*
Spring term examinations.

June 7, *Saturday*
Spring term ends.

Portland Summer Session, 1952

June 16, *Monday*
Registration.

August 8, *Friday*
Summer session ends.

March

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April

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August

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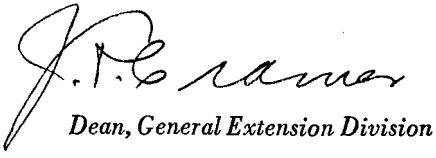
Dean's Message

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.



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Vanport Extension Center

Oregon State System of Higher Education

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General Information

Your College --
The Vanport Extension Center

Just what is the Vanport Extension Center?

Vanport brings to you and the other people of Portland the first two years of college and university work offered by our Oregon State System of Higher Education. Its purpose is to make available to those living in this area the opportunities of higher education on a par with the rest of the State System. It is called "Extension Center" because it is an extension of the other state schools; that is, two years at Vanport are the equivalent of two years at the University of Oregon, Oregon State College, or the Oregon colleges of education. The name Vanport, a combination of the names Vancouver and Portland, comes from its original campus in the wartime housing project.

Why should I go to Vanport?

The advantages of attending Vanport vary from student to student. To many Portland students, a local school such as Vanport, where they can live at home, means the difference between going and not going to college. Many students are able to find part-time jobs in this large metropolitan area and thus help themselves through college. Others like to remain in their home city where they can continue in their own circle of friends and family and belong to their familiar groups, church, clubs, and other organizations. The individual attention and interest taken in each student by the faculty and staff in our small school situation appeal to many dismayed by the impersonal atmosphere of a large educational machine. The two-year feature of Vanport attracts those students who do not plan a full four-year college program but who desire courses useful for the profession they intend to follow or for culture and citizenship in our democratic society. 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 permanent state school?

Vanport, like the University of Oregon, Oregon State College, and the colleges of education, is under the supervision and control of the Oregon

State Board of Higher Education. Like them, it receives tax support from the state of Oregon. The people of Oregon, through their state Legislature, have made Vanport a permanent and integral part of the State System. In 1949, a law was passed providing that Vanport become a permanent lower-division extension center in Multnomah County. This law responded to the demonstrated need for higher education in the Portland area, and it reflected the change of Vanport from a temporary program designed to provide college and housing facilities for returning veterans to an institution serving the whole body of young people who desired state-sponsored education. The increasing enrollment of nonveteran students shows that Vanport has indeed taken root as the permanent, integral part of the Oregon State System of Higher Education for which the law provided.

Your Studies and Social Activities

What courses are offered at Vanport?

A wide range of fields is available to you at Vanport. The law passed in 1949 provides that Vanport may offer "lower-division work which is the practical equivalent of the courses and studies now made available during the first two years of academic training at the University of Oregon, Oregon State College, and the Oregon colleges of education and such other courses and curricula as are deemed advisable by the State Board of Higher Education." Thus, a student may take two years of work in many of the professional fields included in the Oregon State System. The range of courses runs from *a* to *z*—from algebra to zoology. Professional fields include business administration, business and technology, liberal arts, elementary education, prelaw, science, social science, pre-engineering, preforestry, prenursing, and prepharmacy. Fields of a terminal nature include secretarial science, courses for dental and medical assistants, and police training. You will find the explanation of specific courses in the latter part of this book. If you are not sure whether the course you want is offered at Vanport, write or phone the Center office.

Will my Vanport credits be good at other colleges?

Courses at Vanport count as resident credit when transferred to the University of Oregon, Oregon State College, or any of the Oregon colleges of education. If you desire to transfer later to a college outside of Oregon, your Vanport courses are eligible for the same credit you would have received had you attended any of the other schools of the State System.

Suppose I only want two years of college?

Many students desire, for a wide variety of reasons, just a year or two of college work. Terminal courses—that is, courses designed to be completed in the two-year span—are offered that will prepare you for work or give you some general college cultural background. Thus, a two-year course in general engineering is given to prepare students for such positions as engineering aides and draftsmen. Other terminal courses, for both men and women, are offered in the business and secretarial-science fields, and so on. For more information, read the section of the catalog which gives recommended courses for major fields.

Do I have to take a foreign language?

The answer to this depends on whether or not you intend to graduate from a four-year institution; it also depends on what degree you take and what school grants that degree. In the Oregon State System, a foreign language is required for the Bachelor of Arts degree but not for the Bachelor of Science. Many graduate degrees require a reading knowledge of one or more foreign languages. You should check with your adviser on this point.

Are there any social activities and clubs?

Cocurricular activities are a definite and essential part of the Vanport program. There are club activities for all tastes and personalities; thus, there is a Forestry Club, an Engineering Club, a Speech Club, and a great number of social and service clubs. The Drama Department features quarterly plays, and there is opportunity for those with musical skill in the Vanport band or chorus. College dances, parties, and other entertainments—and there are many—are part of the general cocurricular program. Club activities and social programs are carried on by the students with a minimum of faculty supervision. All student affairs and activities are under the direction of the Student Council, which is elected twice a year by the students themselves. The Inter-Club Council, made up of student representatives from each chartered club on campus, coordinates all club activities. All women students are members of the Associated Women Students, which sponsors a variety of suitable programs.

Are these social activities exclusive?

We take pride in the friendly and democratic spirit of our school. Everyone is urged to participate in the cocurricular activities at Vanport. Organizations with charter restrictions against race, creed, or color are not

permitted on the Vanport campus. A school is more than academic training—it is growth through social living.

How about athletics?

Vanport athletics include the major sports of football, basketball, baseball, track, and wrestling, and a wide variety of minor sports such as golf, skiing, tennis, and swimming. Entering freshmen may qualify for varsity play. After one or two years of participation, you may transfer to a four-year college and be eligible to play immediately. The varsity "V" is awarded to those who earn letters in the major or minor sports. There is an intramural sports program for all students, which includes football, basketball, baseball, tennis, gymnastics, golf, and other sports. Intramural sports and physical education are available for women, as well as for men, at Vanport.

How do I know what's going on around Vanport?

The students publish a weekly newspaper, the *Vanguard,* and a yearbook, the *Viking.* Those interested in writing and journalism may become members of the staffs of these two publications. School activities and programs are recorded in these widely read publications.

Your Campus

Where is Vanport?

Right now the main unit of the Center is the former administration building of the Oregon Shipbuilding Corporation in northeast Portland. This attractive, functional structure has been remodeled to provide classrooms, laboratories, a cafeteria, and assembly hall. Another large near-by building provides space for individual club offices and classrooms. Part of the physical-education and athletic program is housed in an adjacent building. The entire middle wing of the second floor of the main building is given over to Vanport's bright and cheerful library. Here you will find the books necessary for your courses, as well as the standard reference works and nearly two hundred current magazines. You may also use the many general and special libraries in the Portland area, such as the Portland Public Library, the Oregon Historical Society and the Art Museum libraries. The facilities of the whole Portland area have been drawn upon to complete the campus. Swimming classes use the Shattuck Pool, girls'

physical education classes use the new modern gymnasium of the St. Johns Community Center, and engineering shop classes meet in the Benson Polytechnic High School. The varsity basketball squad uses the spacious Navy gymnasium at Swan Island.

How do I get there?

Look at the map on the inside back cover. By bus, take the St. Johns or Killingsworth bus to Philadelphia Street near the north approach 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 downtown 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. You will have no trouble parking at Vanport. A thirty-acre parking lot on two sides of the main building, Columbia Hall, gives Vanport the distinction of owning the largest parking lot of any campus in America.

Is this location Vanport's permanent campus?

The 1949 Oregon Legislature passed a law appropriating money to purchase the present Lincoln High School building at Broadway and Market streets to house the Vanport Extension Center and the Portland Extension Center; it will not be used by Vanport until a new high school, now in process of construction, is completed and the present building remodeled for college use. The move will probably take place in the fall of 1952.

Your Expenses

How much does it cost to go to Vanport?

Registration and other fees total $36.00 for a term of three months; thus, the cost for a school year of three terms is $108.00. Students who are not residents of Oregon must pay an additional nonresident fee. You should plan on spending about $50.00 a year for textbooks and classroom supplies, a cost which is about average. Since most Vanport students live at home, they save the cost of living in a dormitory. Students from out-of-

town may receive assistance from the housing bureau of the Center in finding living accommodations. The bureau aids in locating furnished and unfurnished apartments and houses, as well as rooms with or without board to meet the varying needs of the students.

How can I save money at the student Cooperative?

The Co-op provides texts, school supplies, and other articles needed by the students, as well as a cafeteria and soda fountain. The store is run on a nonprofit basis, and this results in a substantial saving for the students. Most of the employees are students working on a part-time basis. The Co-op is an example of the initiative and resourcefulness of the Vanport students; it was started in the fall of 1946, when Vanport was largely a Veterans' college, by a few students who formed a food-buying club to increase the purchasing power of their subsistence checks. Now the Co-op works for the financial advantage of the nonveteran students, as well.

Can I obtain a loan if needed?

The Vanport Student Co-operative maintains a permanent loan fund to assist students who may need short-term loans to meet a pressing necessity. A general loan fund, made possible by gifts from many sources, is also available for short-term loans. Both loans funds are administered by a faculty committee which authorizes the loans to deserving students who apply.

Is there a chance of obtaining a scholarship to help me through Vanport?

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.

Can I get a part-time job?

Part-time jobs are listed in the office of the dean of men. There is a wide variety of jobs available at most times for students desiring part-time work.

Your Military Status

May I take military training while enrolled at Vanport?

Negotiations for a reserve officers' program at Vanport have not been completed at this time. However, opportunities in service programs are available to the Vanport student through armed forces units in the Portland area. 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 college men 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.

The U. S. Army and Air Force also maintain training units in the Portland area. Students may join the National Guard, which drills for two hours one night a week, or join Reserve units which meet at Vancouver Barracks and drill every week. Students interested in the U. S. Air Force may join air corps training units, which are based at the Portland airport. Training is usually done on week ends. For further information on the Army and Air Force, write: Organized Reserve Corps, 225 U. S. Court House, Portland, Oregon.

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).

Your Enrollment at Vanport

How do I apply for admission?

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.

When do I register?

You should register during the first few days of each term as designated in the academic calendar. It is advisable that you register before classes begin, in order that you may not miss the first vital days of the class. Those who register early have a greater choice of courses and sections, since classes are closed to prevent overloading and to insure better instruction.

Do I have to take entrance examinations?

If you are a graduate of an Oregon high school, you do not have to take an examination to determine your eligibility for entrance. However, placement and other examinations are given which enable faculty counselors to help you plan courses suited to your needs and desires. Each student who has not completed a college composition course of at least one term must take a placement examination to ascertain whether or not he might profit from a review course before entering the regular required English course. Each student entering mathematics is given an examination to determine which of the mathematics courses would be best for him at first. Other tests are given to help determine your aptitudes and abilities; these will help you plan your program and choose your major.

Will I have any personal counseling?

A faculty adviser will be assigned to you to guide you in the selection of courses to meet the requirements of your chosen field of study. The men's adviser and the women's adviser will help you with academic or personal problems. This counseling service will be available to you as long as you remain at Vanport. Your faculty adviser will help you plan each quarter's activities.

Must I have my major field selected now?

Many students select their major field long before they enter college. Others complete a year or more of varied college work to determine their interests. Even after a choice is made, students may change their majors as their college experience reveals new horizons. Most students unsure of their interests or of their abilities in a specific field 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 or for graduation in a specific major.

Fees and Refunds

Fees are payable at the time of registration. 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.

Increases in costs of materials, supplies, and equipment may necessitate upward adjustments in the laboratory and course fees and in other incidental fees. The State Board of Higher Education reserves the right to make changes in the schedule without notice.

FULL-TIME FEE

(For students registering for 7 term hours or more)

	Per Term	*Per Academic Year*
Tuition	None	None
Incidental and Laboratory Fee (includes $5.00 per term for educational and athletic-activities fee and $4.00 per term for health service)	$ 36.00	$108.00
Total for Oregon residents	36.00	108.00
Total for nonresidents, who pay an additional nonresident fee of $70.00 per term	$106.00	$318.00

PART-TIME FEE

(For students registering for 6 term hours or less)

Per term hour (with a minimum of $10.00)	$5.00

(Part-Time Fee includes $5.00 per term for educational and athletic-activities fee and $4.00 per term for health service.)

SPECIAL FEES AND FINES

Late-Registration Fee, per day	$1.00
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

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.

Nonresident Fee

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.

Academic Regulations

Who is eligible to enter Vanport?

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; 1 unit of mathematics; and 1 unit in the natural sciences. 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, ½ 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.

How is the academic year divided?

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

What is meant by "term," "grade point," etc.?

A TERM is a division of the academic year and is approximately three months in length. Example: Winter term is in January, February, and March.

A COURSE is a subject, or an instructional subdivision of a subject, offered through a single term. Example: Hst 201 (U) History of the United States.

A YEAR SEQUENCE consists of three closely articulated courses extending through the three terms of the academic year. Example: Hst 201, 202, 203 (U) History of the United States.

A CURRICULUM is an organized program of study arranged to provide integrated cultural or professional education. Example: Predental 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.

The letter (C) following a course number shows it is a college of education course; (E), a General Extension Division course; (S), an Oregon State College course; (U), a University of Oregon course.

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.

Certain courses are designated "no-grade" courses. Students in these courses are rated "pass" (P) or "not pass" (NP). These courses do not count towards the grade-point average.

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:

Grade	*Hours*	*Weight*	*Grade Points*
A	6	4	24
B	3	3	9
C	3	2	6
D	2	1	2
	14		41

41÷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.

How many credit hours may a student take?

A student usually enrolls for no more than 17 hours; in order to take more than 17 hours, a student must have a grade-point average of 3.00 or better and must secure special permission.

A student must have permission in advance to take courses at other educational institutions. When courses at other colleges are taken without permission, Vanport reserves the right to cancel credits for the subjects of that term.

What happens to a student who makes 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 probation 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.

A student may be suspended if his cumulative GPA after three terms is less than 1.50. This same minimum cumulative GPA applies for the fourth term, after which a student's cumulative must be 1.75 or more to allow him to remain enrolled. These minimum standards are subject to discretionary action by the faculty academic committee.

In addition, cumulative grade-point standards must be met by the student to insure his satisfactory progress toward Junior Certificate requirements.

What are the requirements for becoming a junior at other colleges?

The JUNIOR CERTIFICATE is required for 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 must take and pass a course designated Wr K or Eng R, unless excused on basis of a high rating in the English placement examination required upon entrance.

(b) English Composition: 9 term hours, unless excused. A student whose work is of unusually high quality may, with the consent of the head of the Department of English, be excused at the end of any term from further required written English.

(4) Physical Education: 5 terms in activity courses, unless excused (veterans are excused).

(5) Health Education: HE 250 will satisfy the requirement for men or women (veterans are excused). Men may take HE 150, Health Education, in place of HE 250 to meet this requirement.

(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) 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) In the professional and technical major, the general courses and group requirements are specifically named in the catalog.

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.

What certificate is given for those who wish only a two-year course?

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 107, 108, 109. (C) **World Literature.** 3 hours each term.
Eng 201, 202, 203. (U) **Shakespeare.** 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 104, 105, 106. (S) **Mathematics of Business and Industry.** 3 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.

Psychology‡

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

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* The third year of a foreign language may be offered to meet this group requirement. Students should consult their advisers about foreign-language requirements for upper-division and graduate courses and for B.A. degree requirements of other institutions.

† Any three of the following meet the science requirement: Mth 100, Mth 101, 102, 103, Mth 105 (U), Mth 108, Mth 109.

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

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) **Background 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.

Human Geography

HG 101, 102, 103. (S) **Geography.** 3 hours each term.
HG 201, 202, 203. (S) **Regional Geography.** 3 hours each term.

Philosophy

Phl 201. (U) **Elementary Logic.** 3 hours.
Phl 202. (U) **Problems of Philosophy.** 3 hours.
Phl 203. (U) **Elementary Ethics.** 3 hours.

Political Science

PS 201, 202, 203. (U) **American Government.** 3 hours each term. PS 204 (U) *or* PS 205 (U) may be substituted for PS 203 (U).

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.

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

General Freshman Year	Term Hours F	W	S
General Botany—Bi 204, 205 (U)	4	4	--
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
English Composition—Wr 111, 112, 113 (U)	3	3	3
Principles of Economics—Ec 201 (U)	--	3	--
Fundamentals of Speech—Sp 111 (U)	--	--	3
American Government—PS 201 (U)	--	3	--
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
Principles of Bacteriology—Bac 230 (S)	--	--	3
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Elective	3	--	--
	16	18	17

Preagricultural Engineering

Freshman Year			
General Botany—Bi 204, 205 (U)	4	4	--
General Bacteriology—Bac 204 (S)	--	--	3
Mathematics—Mth 10, 100 (S)	4	4	--
Engineering Drawing—GE 121, 122 (S)	3	3	--
Forging and Welding—IE 250 (S)	--	--	2
English Composition—Wr 111, 112, 113 (U)	3	3	3
Fundamentals of Speech—Sp 111 (U)	--	--	3
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Physical Education—PE 190 (U)	1	1	--
Orientation—SSc 111 (C)	1	--	--
	16	15	14

Sophomore Year	Term Hours F	W	S
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
General Physics—Ph 201, 202, 203 (S)	4	4	4
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Plane Surveying—CE 226 (S)	--	--	3
Machine Shop Practices—IE 260 (S)	--	3	--
Constructive Accounting—BA 111 (U)	3	--	--
Physical Education—PE 190 (U)	1	1	1
	16	16	16

Biology—Botany

Freshman Year			
General Zoology—Bi 201, 202, 203 (U)	4	4	4
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
English Composition—Wr 111, 112, 113 (U)	3	3	3
Literature *or* social science group requirement	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	17	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	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
	16	16	18

Business Administration

(For students who plan to transfer to the University of Oregon.)

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—Wr 111, 112, 113 (U)	3	3	3
Group sequence in social science	3	3	3
Appreciation of Literature—Eng 104, 105, 106 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	18	17	17
Sophomore Year			
Elements of Finance—BA 222 (U)	4	--	--
Elements of Marketing—BA 223 (U)	--	4	--
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Business English—Wr 214 (U)	3	--	--
Physical Education—PE 180 *or* 190 (U)	1	1	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Electives: BA 221 (U), J 211 (U), Sp 121, 122, 123 (U), typing, drama, music, social science *or* science	6	9	11
	17	17	17

Business and Technology

(For students who plan to transfer to Oregon State College.)

Freshman Year	Term Hours F	W	S
Introduction to Business and Industry—BA 111, 112 (S)	3	3	--
Survey of Modern Industry—BA 113 (S)	--	--	3
Mathematics—Mth 104, 105, 106 (S)	3	3	3
Human Geography—HG 101 (S)	3	--	--
Economic Geography—HG 102 (S)	--	3	--
Regional geography elective	--	--	3
American Government—PS 201 (U)	3	--	--
General Sociology—Soc 212 (S)	--	3	--
History of the United States—Hst 203 (U)	--	--	3
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	17	16	16

Sophomore Year			
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
Business English—Wr 214 (U)	3	--	--
Fundamentals of Speech—Sp 111 (U)	--	3	--
Group Discussion Methods—SP 232 (S)	--	--	3
Technical minor	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	--
Personal Health—PE 150 (S)	--	--	2-3
	16	16	17-18

Terminal Business

Medical and Dental Secretaries

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

Freshman Year			
Typing—SS 121, 122, 123 (S)	2	2	2
Stenography—SS 111, 112, 113 (S)	3	3	3
English Composition—Wr 111 (U)	3	--	--
First Aid—PE 252 (U)	--	--	3
Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	2-3	--
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	17	15-16	16

Sophomore Year	Term Hours F	W	S
Office Apprenticeship—MD 290 (C)	..	..	4
Office Practice—SS 241, 242 (C)	3	3	..
General Psychology—Psy 201 (U)	3	..	..
Applied Stenography—SS 211, 212, 213 (S)	3	3	3
Business English—Wr 214 (U)	3	..	..
Salesmanship—Mer 238 (C)	..	3	..
Business Law—SS 256 (C)	..	..	3
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
Fundamentals of Speech—Sp 111 (U)	..	3	..
Physical Education—PE 180 *or* 190 (U)	1	1	1
Elective	..	..	2
	17	17	17

Merchandising

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

Freshman Year			
Salesmanship—Mer 238 (C)	..	3	..
English Composition—Wr 111, 112, 113 (U)	3	3	3
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Introduction to Business and Industry—BA 111, 112 (S)	3	3	..
Elements of Marketing—BA 223 (U)	..	..	4
Typing—SS 121, 122, 123 (U)	2	2	2
Physical Education—PE 180 *or* 190 (U)	1	1	1
Group requirements in social science	3	3	3
Orientation—SSc 111 (C)	1	..	..
	16	18	16

Sophomore Year			
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	..
Personal Health—HE 250 (U) (*or* HE 150 for men)	..	..	3
Elements of Finance—BA 222 (U)	4	..	..
Elements of Production—BA 221 (U)	..	4	..
Mathematics of Business and Industry—Mth 104, 105, 106 (S) *or* electives	3	3	3
Business English—Wr 214 (U)	3	..	..
Business Law—SS 256 (C)	..	..	3
Merchandise Apprenticeship—Mer 290 (C)	..	3	3
Electives*	3	3	2
	17	17	17

* The following Portland Extension Center courses may be taken with instructor's permission in place of other electives: Cost Accounting—BA 312; Analysis of Financial Statements—BA 313; Advertising—BA 339; Office Management—BA 323; Salesmanship—BA 442; Merchandising—BA 436; Personnel Management—BA 412, 413.

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
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Introduction to Business and Industry—BA 111, 112 (S)	3	3	–
Orientation—SSc 111 (C)	1	–	–
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Elective	–	–	3
	16	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—Wr 214 (U)	3	–	–
Business Law—SS 256 (C)	–	–	3
Salesmanship—Mer 238 (C)	–	3	–
Merchandise Apprenticeship—Mer 290 (C)	–	–	3
History of the United States—Hst 201, 202 (U) *or* Principles of Economics—Ec 201, 202 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	–	1
Personal Health—HE 250 (U) (*or* HE 150 for men)	3	–	–
Fundamentals of Speech—Sp 111 (U)	–	3	–
Elective	–	3	–
	16	18	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—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	–	–
Personal Health—HE 250 (U) (*or* HE 150 for men)	–	–	3
Electives	3	3	4
	17	16	17

Secretarial Science

(This is the first two years of a four-year course to be completed at Oregon State College.)

Freshman Year			
Stenography—SS 111, 112, 113 (S)	3	3	3
Typing—SS 121, 122, 123 (S)	2	2	2
Introduction to Business and Technology—BA 111, 112 (S)	3	3	–
Vocabulary Building—Wr 114 (E)	–	–	2
English Composition—Wr 111, 112, 113 (U)	3	3	3
Group requirement in science *or* language and literature	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	–	–
Electives	1	2	3
	17	17	17

Sophomore Year	Term Hours F	W	S
Applied Stenography—SS 211, 212, 213 (S)	3	3	3
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Principles of Accounting—BA 111, 112, 113 (U)	3	3	3
History of the United States—Hst 203 (U)	–	–	3
American Governments—PS 201 (U)	–	3	–
Business English—Wr 214 (U)	3	–	–
Social science electives	3	3	–
Physical Education—PE 180 *or* 190 (U)	1	1	–
Personal Health—HE 250 (U) (*or* HE 150 for men)	–	–	3
Electives	2	2	–
	18	18	15

Chemistry

Freshman Year

General Chemistry—Ch 204, 205, 206 (S)	5	5	5
English Composition—Wr 111, 112, 113 (U)	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
Orientation—SSc 111 (C)	1	–	–
	17	16	16

Sophomore Year

Chemical Theory—Ch 241 (S)	4	–	–
Quantitative Analysis—Ch 232, 233 (S)	–	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	–
Literature *or* social science group requirement	3	3	–
Personal Health—HE 250 (U) (*or* HE 150 for men)	–	–	3
	16	17	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—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	–	–
	18	17	17

Sophomore Year

Organic Chemistry—Ch 226, 227 (S)	5	5	–
Quantitative Analysis—Ch 234 (S)	–	–	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) *or* social science	4	–	–
Physical Education—PE 180 *or* 190 (U)	1	1	–
Personal Health—HE 250 (U) (*or* HE 150 for men)	–	–	3
Elective	–	4	2
	17	17	17

Elementary Education (Cooperative Elementary Teacher-Education Degree Program)

Vanport Extension Center has entered into a cooperative arrangement with the state colleges of education, located at Monmouth, Ashland, and La Grande, to provide preparation for elementary teaching under an emergency five-year plan ending July 1, 1956. Under this plan, students qualifying for a Junior Certificate, or with equivalent preparation, in their first two years, may enroll in the specified junior-year curriculum for elementary teacher education in the General Extension Division, State System of Higher Education, in Portland. Upon specific recommendation of the Dean of the General Extension Division, this will be followed by a fourth year of concentrated professional preparation at one of the colleges of education. The student may return to Portland for the third term of the senior year, consisting of 10 term hours of student teaching and 6 term hours of course work, directed by the college of education. Upon completion of all requirements, the student will be awarded the degree of Bachelor of Science in Elementary Education by the college of education attended.

This cooperative elementary-education degree program is intended to provide opportunity during the emergency for students already enrolled in the Vanport Extension Center to prepare for elementary teaching. Vanport students may transfer to any Oregon college of education at the end of their freshman or sophomore year without loss of time or credit. The State Board of Higher Education maintains a full four-year program for professional preparation of elementary teachers in each of the three colleges of education (Monmouth, La Grande, and Ashland), and high-school seniors who have decided to prepare for elementary teaching are normally advised to enroll as freshmen at one of these colleges.

(Four-Year Curriculum in Elementary Education)

**Freshman Year (at Vanport Extension Center)*	Term Hours F	W	S
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Science Survey—GS 104, 105, 106 (S)	4	4	4
Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Background of Social Science—SSc 101, 102, 103 (U)	3	3	3
Orientation—SSc 111 (C)	1	--	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	2	--	--
Fundamentals of Speech—Sp 111 (U)	--	3	--
Physical Education—PE 180 *or* PE 190 (U)	1	1	1
Elective	--	--	1
	18	18	16

* Students who have met the junior-certificate requirements with other courses may enter the junior year of the four-year curriculum.

Sophomore Year (at Vanport Extension Center)	Term Hours F	W	S
World Literature—Eng 107, 108, 109 (C)	3	3	3
Social science—History of Western Civilization *or* Principles of Economics *or* General Sociology	3	3	3
General Psychology—Psy 201, 202 (U)	3	3	--
Educational Psychology—Ed 312 (C)	--	--	3
Geography—Geog 105, 106, 107 (U)	4	4	4
Physical Education—PE 180 *or* PE 190 (U)	1	1	1
Foundations of Mathematics—Mth 211 (C)	--	--	3
Electives	3	3	--
	17	17	17
Junior Year (at Portland in the General Extension Division)			
Introduction to Education—Ed 354 (C)	3	--	--
Music I, II—Mus 281, 282 (C)	3	3	--
Art Structure I, II—A 211, 212 (C)	--	3	2
History of the United States—Hst 201, 202, 203 (U)	3	3	3
Oregon History—Hst 377 (C)	2	--	--
Health Education—Ed 351 (C)	--	2	--
Child Growth and Development—Psy 461 (C)	--	--	3
Contemporary Problems—SSc 411 (C)	--	--	3
†Foundations of Physical Science—Sc 201, 202, 203 (C)	3	3	3
†Geography—Geog 201, 202, 203 (C)	3	3	3
	17	17	17
Senior Year (at any Oregon college of education)			
Supervised Teaching—Ed 415 (C)	--	5	10
Educational Tests and Measurements—Ed 418 (C)	--	--	3
Children's Literature—Eng 388 (C)	3	--	--
School Organization—Ed 476 (C)	3	--	--
Applied Mental Hygiene—Ed 460 (C)	--	--	3
Audio-Visual Aids—Ed 435 (C)	--	3	--
Physical Education in Elementary Grades—Ed 344, 345, 346 (C)	--	3	--
Primary Education—Ed 358 (C)	4	--	--
Intermediate and Upper-Grade Education—Ed 359 (C)	--	4	--
Elementary-School Library—Ed 380 (C)	2	--	--
Music III—Mus 283 (C)	3	--	--
Art Structure III—A 311 (C)	3	--	--
(Three-Year Curriculum in Elementary Education)	18	15	16

A three-year teacher-education curriculum, preparing for elementary teaching, is authorized at the Oregon colleges of education. On completion of this curriculum, the graduate receives a diploma and becomes eligible for certification to teach in the elementary and junior high schools of Oregon. Graduates of the three-year curriculum may proceed without interruption to the completion of the fourth year leading to the bachelor's degree.

* Students who have met the junior-certificate requirements with other courses may enter the junior year of the four-year curriculum.

† If taken previously, electives should be taken in literature or science.

Freshman Year (at Vanport Extension Center)	Term Hours F	W	S
English Composition—Wr 111, 112, 113 (U)	3	3	3
Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Geography—Geog 105, 106 (U)	4	4	--
Personal Health—HE 250 (U)	2	--	--
Background of Social Science—SSc 101, 102, 103 (U)	3	3	3
Foundations of Mathematics—Mth 211 (C)	--	--	3
Physical Science Survey—GS 104 (S)	--	--	4
Fundamentals of Speech—Sp 111 (U)	--	3	--
Physical Education—PE 180 *or* PE 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	18	18	18
Sophomore Year (at Vanport Extension Center)			
Primary Education—Ed 358 (C)	--	4	--
Intermediate and Upper-Grade Education—Ed 359 (C)	--	--	4
Introduction to Education—Ed 354 (C)	3	--	--
World Literature—Eng 107, 108, 109 (C)	3	3	3
General Psychology—Psy 201, 202 (U)	3	3	--
Educational Psychology—Ed 312 (C)	--	--	3
Music I, II, III—Mus 281, 282, 283 (C)	3	3	3
Art Structure I, II, III—A 211, 212, 311 (C)	3	2	3
Physical Education in the Elementary Grades—Ed 344, 345, 346 (C)	1	1	1
	16	16	17
Junior Year (at any Oregon college of education)			
Supervised Teaching—Ed 415 (C)	5	5	5
Educational Tests and Measurements—Ed 418 (C)	3	--	--
Children's Literature—Eng 388 (C)	3	--	--
Applied Mental Hygiene—Ed 460 (C)	--	3	--
School Organization—Ed 476 (C)	--	3	--
History of Oregon—Hst 377 (C)	--	--	2
Elementary-School Library—Ed 380 (C)	--	2	--
Health Education—Ed 351 (C)	2	--	--
American History and Government—Hst 378 (C)	--	--	3
Electives	3	3	6
	16	16	16

Industrial-Arts Education

(This is a program for secondary education majors who plan to transfer to Oregon State College.)

Freshman Year			
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—Wr 111, 112, 113 (U)	3	3	3
Descriptive Geometry—GE 123 (S)	--	--	3
Physical Education—PE 180 *or* 190 (U)	1	1	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Orientation—SSc 111 (C)	1	--	--
	18	17	18

Sophomore Year	Term Hours F	W	S
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
Elective in science group	3	3	3
General Psychology—Psy 201, 202 (U)	3	3	–
Educational Psychology—Ed 312 (C)	–	–	3
Business English—Wr 214 (U), *or* Elementary Journalism—J 211 (U)	3	–	–
Fundamentals of Speech—Sp 111 (U)	–	3	–
Physical Education—PE 180 *or* 190 (U)	1	1	1
Technical electives	3	2	3
Elective	–	–	3
	16	15	16

Engineering and Industrial Arts

General Engineering

(This is a two-year terminal course for students who do not plan to complete the four-year course.)

Freshman Year			
Engineering Drawing—GE 121, 122 (S)	3	3	–
Engineering Fundamentals—GE 104, 105, 106 (S)	3	3	3
Elementary Algebra—Mth 10 (S)	4	–	–
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	–	–
Intermediate Algebra—Mth 100 (S)	–	4	–
General Physics—Ph 201, 202 (S)	–	4	4
Descriptive Geometry—GE 123 (S)	–	–	3
Elementary Analysis—Mth 101 (S)	–	–	4
	15	18	18

Sophomore Year			
Foundry Practices—IE 240 (S)	2	–	–
General Engineering—GE 201, 202, 203 (S)	4	4	4
Business English—Wr 214 (U)	3	–	–
Fundamentals of Speech—Sp 111 (U)	3	–	–
Pattern Making—IE 111 (S)	3	–	–
Physical Education—PE 190 (U)	1	–	–
Structural Drafting—GE 211 (S)	–	3	–
Technical Report Writing—Eng 227 (S)	–	3	–
Machine Tool Practices—IE 260 (S)	–	2	–
Personal Health—HE 250 (U)	–	3	–
Elementary Machine Drafting—GE 213 (S)	–	–	3
Forging and Welding—IE 250 (S)	–	–	2
Plane Surveying—CE 226 (S)	–	–	3
Approved elective	–	–	4
	16	15	16

Chemical Engineering

Freshman Year

	Term Hours F	W	S
General Chemistry—Ch 204, 205, 206 (S)	5	5	5
Engineering Drawing—GE 121, 122 (S)	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
Orientation—SSc 111 (C)	1	..	..
Health Education—HE 150 (U)	..	..	1
Engineering Fundamentals—GE 104, 105, 106 (S)	3	3	3
	19	19	17

Civil, Electrical, Industrial, and Mechanical Engineering

Common Freshman Year

Engineering Fundamentals—GE 104, 105, 106 (S)	3	3	3
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—Wr 111, 112, 113 (S)	3	3	3
*Descriptive Geometry—GE 123 (S)	..	..	3
Physical Education—PE 180 *or* 190 (U)	1	1	..
Orientation—SSc 111 (C)	1	..	..
Personal Health—HE 250 (U) (*or* HE 150 for men)	..	..	2
	18	17	18

Civil Engineering

Sophomore Year

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 201, 202, 203 (S)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Electives	3	..	..
	16	16	16

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 201, 202, 203 (S)	3	3	3
Plane Surveying—CE 226 (S)	..	..	3
American Governments—PS 201 (U)	3	..	..
Social science elective	..	..	3
Machine Shop—IE 260 (S)	..	2	..
Fundamentals of Speech—Sp 111 (U)	..	3	..
Principles of Accounting—BA 111 (U)	3	..	..
Physical Education—PE 180 *or* 190 (U)	1	1	1
	18	17	18

* Mechanical engineering students only or election.

Industrial Administration

Freshman Year	Term Hours F	W	S
Norm			
Pattern Making—IE 111 (S)	3	–	–
Foundary 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—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	–	–
Electives	–	–	6
	13	11	10
Metal Industries Option			
Freshman-year norm	13	11	10
Mathematics—Mth 100, 101, 109 (S)	4	4	4
Fundamentals of Speech—Sp 111 (U)	–	–	3
	17	15	17
Tool Design Option			
Freshman-year norm	13	11	10
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Fundamentals of Speech—Sp 111 (U)	–	–	3
	17	15	17
Wood Industries Option			
Freshman-year norm	13	11	10
Mathematics—Mth 100, 101, 109 (S)	4	4	4
	17	15	14
Sophomore Year			
Norm			
General Physics—Ph 201, 202, 203 (S)	4	4	4
Lower-Division Drawing (Construction)—AA 291 (S)	–	3	–
Business English—Wr 214 (U)	–	–	3
American National Government—PS 201 (U)	3	–	–
Physical Education—PE 180 *or* 190 (U)	1	1	–
Personal Health—HE 250 (U)	–	–	3
	8	8	10
Tool Design Option			
Sophomore-year norm	8	8	10
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	18

Wood Industries Option	Term Hours F	W	S
Sophomore-year norm	8	8	10
Introduction to Business and Industry—BA 111, 112 (S)	3	3	–
House Planning and Architectural Drawing—AA 178, 179, 180 (S)	3	3	3
Fundamentals of Speech—Sp 111 (U)	–	3	–
Materials of Engineering—ME 216 (S)	–	–	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Sophomore Year	15	18	17
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 201, 202, 203 (S)	3	3	3
American Governments—PS 201 (U)	–	3	–
Physical Education—PE 180 *or* 190 (U)	1	1	1
Mechanical Engineering	16	16	16
Sophomore Year			
Mechanics (Statics)—ME 212 *and*			
Mechanics (Statics)—ME 212 (S)	–	3	–
Mechanics (Dynamics)—ME 213 (S)	–	–	3
Differential and Integral Calculus—Mth 201, 202, 203 (S)	4	4	4
Descriptive Geometry—GE 123 (S)	3	–	–
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 201, 202, 203 (S)	3	3	3
Introduction to Aeronautics—ME 241 (S) (elective)			
Physical Education—PE 180 *or* 190 (U)	1	1	1
Preforestry	16	16	16
Freshman Year			
General Forestry—F 111 (S)	3	–	–
Wood Utilization—FP 210 (S)	–	3	–
Introduction to Forestry—F 213 (S)	–	–	3
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
Science	3-4	3-4	3-4
English Composition—Wr 111, 112, 113 (U)	3	3	3
Engineering Drawing—GE 121 (S)	–	–	3
Fundamentals of Speech—Sp 111 (U)	–	3	–
Physical Education—PE 180 *or* PE 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	–	–
	15-16	17-18	17-18

General College

(This is a terminal course completed in two years for students who want a general college course.)

Freshman Year	Term Hours F	W	S
Backgrounds of Social Science—SSc 101, 102, 103 (U)	3	3	3
English Composition—Wr 111, 112, 113 (U)	3	3	3
Orientation—SSc 111 (C)	1	–	–
Personal Health—HE 250 (U) (*or* HE 150 for men)	–	3	–
Fundamentals of Speech—Sp 111 (U)	–	–	3
Physical *or* Biological Survey—GS 101, 102, 103 (S) *or* GS 104, 105, 106 (S)	4	4	4
Physical Education—PE 180 *or* 190 (U)	1	1	1
Foreign language, art, music, accounting, *or* elective	3-4	3-4	2-3
	15-16	17-18	16-17
Sophomore Year			
American Government—PS 201, 202, 203 (U)	3	3	3
English Literature—Eng 104, 105, 106 (U) *or* Eng 107, 108, 109 (C)	3	3	3
Music, art, foreign language, accounting, *or* elective	3	3	3
Mathematics, social science, *or* elective	3-4	3-4	3-4
Typing—SS 121 (S) *or* elective	3	2	3
Family Relationships—HAd 223 (S)	–	2	–
Elective	1	1	1
	16-17	17-18	16-17

Prelaw

Freshman Year			
American Government—PS 201, 202, 203 (U)	3	3	3
Constructive Accounting—BA 111, 112, 113 (U)	3	3	3
Survey of English Literature—Eng 101, 102, 103 (U)	3	3	3
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
English History—Hst 207, 208, 209 (U)	3	3	3
Orientation—SSc 111 (C)	1	–	–
	17	16	16
Sophomore Year			
Principles of Economics—Ec 201, 202, 203 (U)	3	3	3
Science *or* mathematics	4	4	4
General Psychology—Psy 201, 202 (U); *and* Psychology of Adjustment—Psy 204 (U), *or* Applied Psychology—Psy 205 (U)	3	3	3
General Psychology Laboratory—Psy 208, 209, 210 (U)	1	1	1
Physical Education—PE 180 *or* 190 (U)	–	–	1
History of the United States—Hst 201, 202, 203 (U)	3	3	3
Health Education—HE 150 (U)	–	–	1
Elementary Logic—Phl 201, *and* Problems of Philosophy—Phl 202, *or* electives	3	3	–
	17	18	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
Foreign language *or* elective	3	3	3
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	18	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	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Elective	4	4	3
	16	16	17

Mathematics

Freshman Year			
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Group requirement in literature	3	3	3
Orientation—SSc 111 (C)	1	--	--
Electives	5	5	5
	17	16	16
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	4	4	4
Physical Education—PE 180 *or* 190 (U)	1	1	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Electives	3-4	3-4	3-4
	15-16	15-16	17-18

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—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	18	17	17

Sophomore Year	Term Hours F	W	S
Comparative Vertebrate Embryology—Z 326 (S)	4	--	--
Comparative Vertebrate Anatomy—Z 324, 325 (S)	--	4	4
Organic Chemistry—Ch 226, 227 (S)	5	5	--
Chemistry—Ch 232, 233, 241 (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	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	2
Music	16	16	17

(Curriculum preparing for the B.A. degree, which is the required degree for voice and composition majors and is suggested for piano, string, and organ majors.)

Freshman Year			
English Composition—Wr 111, 112, 113 (U)	3	3	3
Music Theory I—Mus 111, 112, 113 (U)	2	2	2
Applied Music—Mus 190 (U)	1	1	1
Ensemble (band, orchestra, *or* chorus)—Mus 195, 196, 197 (U)	1	1	1
Physical Education—PE 180 *or* 190 (U)	1	1	--
Orientation—SSc 111 (C)	1	--	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	2
Introduction to Music Literature—Mus 127, 128, 129 (U)	2	2	2
Social science *or* literature group requirement	3	3	3
First-Year German—GL 1, 2, 3 (U)	4	4	4
	18	17	18
Sophomore Year			
Second-Year German—GL 4, 5, 6 (U)	4	4	4
General Psychology—Psy 201, 202 (U)	3	3	--
Psychology of Adjustment—Psy 204 (U) *or* Applied Psychology—Psy 205 (U)	--	--	3
General Psychology Laboratory—Psy 208, 209, 210 (U)	1	1	1
Social science *and/or* literature group requirement	6	6	6
Music Theory II—Mus 211, 212, 213 (U)	2	2	2
Ensemble (band, orchestra, *or* chorus)—Mus 195, 196, 197 (U)	1	1	1
Applied Music—Mus 290 (U)	1	1	1
Physical Education—PE 180 *or* 190 (U)	1	1	1
Music	19	19	19

(Curriculum leading to the B.S. degree; for public-school music majors and instrumental majors who do not wish to take foreign language.)

Freshman Year			
English Composition—Wr 111, 112, 113 (U)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	--
Personal Health—HE 250 (U) (*or* HE 150 for men)	--	--	3
Music Theory I—Mus 111, 112, 113 (U)	2	2	2
Ensemble (band *or* orchestra *or* chorus)—Mus 195, 196, 197 (U)	1-2	1-2	1-2
Applied Music—Mus 190 (U)	1	1	1
Survey of English Literature—Eng 101, 102, 103 (U)	3	3	3
Social science *or* science group requirement	3-4	3-4	3-4
Orientation—SSc 111 (C)	1	--	--
	15-17	14-16	16-18

Sophomore Year	Term Hours F	W	S
General Psychology—Psy 201, 202 (U); *and* Psychology of Adjustment—Psy 204 (U), *or* Applied Psychology—Psy 205 (U)	3	3	3
Music Theory II—Mus 211, 212, 213 (U)	2	2	2
Social science *or* literature group requirement	3	3	3
Ensemble (band *or* orchestra *or* chorus)—Mus 195, 196, 197 (U)	1-2	1-2	1-2
Applied Music—Mus 290 (U)	1	1	1
Physical Education—PE 180 *or* 190 (U)	1	1	1
Introduction to Music Literature—Mus 127, 128, 129 (U)	2	2	2
Electives	3-4	3-4	3-4
	16-18	16-18	16-18

Prenursing

(This represents the first five terms of a four-year course to be completed at the School of Nursing of the University of Oregon Medical School.)

Freshman Year			
General Chemistry—Ch 104, 105, 106 (S)	4	4	4
English Composition—Wr 111, 112, 113 (U)	3	3	3
English literature group requirement	3	3	3
General Psychology—Psy 201, 202 (U)	..	3	3
Physical Education—PE 180 (U)	1	1	1
Orientation—SSc 111 (C)	1	..	..
Electives, *or* Wr K *and* Mth 10	4	2	2
	16	16	16

Sophomore Year			
Nutrition—FN 225 (S)	3	..	..
General Zoology—Bi 201, 202 (U)	4	4	..
Psychology of Adjustment—Psy 204 (U)	..	3	..
General Sociology—Soc 204, 205 (U)	3	3	..
Physical Education—PE 180 (U)	1	1	..
Elective	6	6	..
	17	17	..

Prepharmacy

Freshman Year			
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—Wr 111, 112, 113 (S)	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	..	..
Personal Health—HE 250 (U) (*or* HE 150 for men)	..	..	3
	17	16	19

Prephysical Education (Men)

Freshman Year	Term Hours F	W	S
Introduction to Physical Education—PE 121 (U)	2	–	–
Fundamentals of Body Movement and Conditioning—PE 127 (U)	2	–	–
Elementary Tumbling and Apparatus—PE 128 (U)	–	2	–
Track and Field—PE 129 (U)	–	–	2
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—Wr 111, 112, 113 (U)	3	3	3
Orientation—SSc 111 (C)	1	–	–
Electives	–	6	6
	16	15	15
Sophomore Year			
Physical Education—PE 227, 228, 229 (U)	2	2	2
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	–
Principles of Dietetics—HE 225 (U)	2	–	–
Electives	2	3	10
	17	16	16

Prephysical Education (Women)

Freshman Year			
Physical-Education Activities—PE 124, 125, 126 (U)	2	2	2
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—Wr 111, 112, 113 (U)	3	3	3
Orientation—SSc 111 (C)	1	–	–
Electives	2	6	6
	16	15	15
Sophomore Year			
Physical-Education Activities—PE 224, 225, 226 (U)	2	2	2
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	–
Principles of Dietetics—HE 225 (U)	2	–	–
Electives	2	3	10
	17	16	16

Physics

Freshman Year	Term Hours F	W	S
Engineering Physics—Ph 101, 102, 103 (S)	3	3	3
Elementary Analysis—Mth 101, 102, 103 (S)	4	4	4
English Composition—Wr 111, 112, 113 (U)	3	3	3
Social science *or* literature group requirement	3	3	3
Physical Education—PE 180 *or* 190 (U)	1	1	1
Orientation—SSc 111 (C)	1	--	--
	15	14	14
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 204, 205 (S)	5	5	--
Biological Science Survey—GS 101, 102, 103 (S)	4	4	4
Physical Education—PE 180 *or* 190 (U)	--	1	1
Personal Health—HE 250 (U) (*or* HE 150 for men)	2	--	--
Quantitative Analysis—Ch 234 (S)	--	--	5
	18	17	17

Police Training

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

Advisory Committee for Police Training Curriculum:

MIKE BALCOVICH, District Parole Officer, State Board of Parole and Probation.
WILLIAM D. BROWNE, Chief of Detectives, Portland Police Department.
GEORGE J. CHURCH, Secretary, Multnomah County Civil Service Commission.
T. L. CULHANE, Personnel Director, Municipal Civil Service Board.
FRED FOWLER, Traffic Engineer, City of Portland.
VAYNE M. GURDANE, Department of State Police.
STANLEY MACDONALD, Identification Department, Sheriff's Office, Multnomah County.
C. D. NEWMAN, Captain, Oregon City Police Department.
JAMES PURCELL, Deputy Chief, Portland Police Department.
J. J. QUILLIN, Presiding Judge of the Municipal Court.
JAMES J. RICHARDSON, Member, State Board of Parole and Probation.
TERRY SCHRUNK, Sheriff, Multnomah County.
MILES WOODWORTH, Fire Marshal, City of Portland.

Freshman Year.			
English Composition—Wr 111, 112, 113 (U)	3	3	3
American Government—PS 201, 202, 203 (U)	3	3	3
First Aid—HE 252 (U)	--	--	3
Health Education—PE 150 (U)	1	--	--
Typing—SS 121 (S)	2	--	--
Swimming—PE 227 (U)	--	2	--
Physical Education—PE 190 (U)	1	--	1
General Sociology—Soc 204, 205, 206 (U)	3	3	3
Fundamentals of Speech—Sp 111 (U)	--	3	--
Police and Society—LE 011 (E)	2	--	--
Organization and Administration of Law Enforcement Agencies—LE 012 (E)	--	2	--
Elements of Law for Police Officials—LE 013 (E)	--	--	2
	15	16	15

Sophomore Year	Term Hours F	W	S
General Psychology—Psy 201, 202 (U)	3	3	--
Applied Psychology—Psy 205 (U)	--	--	3
Fundamentals of Conditioning—PE 127 (U)	2	--	--
Tumbling and Apparatus—PE 128 (U)	--	2	--
Wrestling—PE 229 (U)	--	--	2
Physical Science Survey—GS 104, 105, 106 (S)	4	4	4
Outlines of Economics—Ec 212 (S)	3	--	--
History of Oregon—Hst 377 (S)	--	3	--
Rudiments of Photography—Ph 161 (S)	--	--	2
Shorthand, anthropology, current affairs, radio *or* electives	3	3	4
Police Technique I, II, III—LE 021, 022, 023	2	2	2
	17	17	17

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 (*26*). 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. The letter (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.

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 114, 115, 116. (U) **Survey of Visual Arts.** 3 hours each term.

Designed to develop insight into the actual work of art, and breadth in the understanding of diverse works of art. Introduction to the principal visual arts as related to daily living; sociological and geographical factors in relation to the visual arts. Required for all professional majors; open to nonmajors.

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

Studio 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 195. (U) **Basic Design.** 2 hours any term.

No-grade course. Through individual projects in a series of studio assignments, the student achieves an understanding of design in the basic visual arts, and a

familiarity with all the professional fields of the school. Correlated with Survey of Visual Arts (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 emphasis on creative work.

AA 211, 212, 213. (U) **Graphics.** 3 hours each term.

Fall: problems in mechanical and freehand perspective, orthographic projection, shades and shadows, as applied to graphic presentation of architectural design. Winter: media of graphic presentation. Spring: methods and techniques of design presentation.

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.

AA 223. (S) **Elements of Interiors.** 2 hours.

Introduction to scope, aim, and technique of interior design intended to give understanding of professional field. All work done in drafting room. Open to nonmajor students with consent of instructor.

AA 290. (U) **Lower-Division Painting.** 3 hours any term.

Instruction in the use of oil color, water color, and other media. Registration permitted any term, but it is desirable that the work be started in the fall. 6 hours required for upper-division standing.

AA 291. (U) **Lower-Division Drawing.** 3 hours any term.

Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall. 6 hours required for upper-division standing.

A 311. (C) **Art Structure III.** 3 hours.

Evaluation of the various approaches to the creative art experiences made possible in the flexible course of study. Lectures, reading, and discussions deal with recent trends of art expression relative to individual needs at various age levels from primary through the junior high school. Prerequisite: A 211, 212.

Astronomy

(*See* PHYSICS)

Bacteriology

Bac 200. (S) **Bacteriology Laboratory.** 2 hours.

May be taken only with Bac 230, which combination may be used in meeting science group requirement. 2 two-hour laboratory periods.

Bac 230. (S) **Principles of Bacteriology.** 3 hours.

Fundamentals of bacteriology with application to agriculture, industry, sanitation, disease. Prerequisite: one year of chemistry.

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. 2 lectures; 2 two-hour laboratory periods.

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 business and industry and to help him determine a field of major concentration.

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

Representative industries within United States covering development, structure, competitive conditions, basic processes, and technology. Orientation to help the student choose minor in technology.

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 221. (U) **Elements of Organization and Production.** 4 hours any term.

Principles of management as applied to commercial and industrial concerns.

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.

Terminal Business

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. This is a no-grade course. It does not carry transfer credit.

Mer 290. (C) **Merchandise-Apprenticeship.** 3 to 6 hours.

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

SS 256. (C) **Business Law.** 3 hours.

Application of fundamental legal principles to typical business situations illustrated by selected cases; formation, interpretation, discharge of contracts; law of agency, negotiable instruments, consideration, delivery, rights, liabilities of parties, real property mortgages; landlord, tenant, mechanics' lien law; personal property, sales, bailments, chattel mortgages.

Chemistry

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

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

Ch 201, 202, 203. (S) **General Chemistry.** 3 hours each term.

Course content particularly adapted for students in engineering. One lecture; 1 recitation; 1 thre-hour laboratory period.

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

The basic principles of general chemistry for students majoring in chemistry, chemical engineering, or premedics, and for others requiring extensive knowledge of the subject. 2 lectures; 1 recitation; 2 three-hour laboratory periods. Students registered for 4 credits take but one laboratory period.

Ch 206. (S) **Qualitative Analysis.** 5 hours spring and fall.

Chemistry of selected metallic elements and semi-micro qualitative analysis. A sequence with Ch 204 and 205, or with Ch 101, 102, 103. 2 lectures; 1 recitation; 2 three-hour laboratory periods.

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

Carbon compounds of the aliphatic series. Prerequisite: Ch 206. 2 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 232, 233. (S) **Quantitative Analysis.** 5 hours each term.

Fundamental principles and laboratory practice. Prerequisite: Ch 206. 2 lectures; 3 three-hour laboratory periods.

Ch 234. (S) **Quantitative Analysis.** 5 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. 3 lectures; 1 two-hour computation period.

Ch 250. (S) **Elements of Biochemistry.** 4 hours.

Proteins, carbohydrates, fats, and other compounds having biochemical significance; fundamentals of analysis as applied in this work. Prerequisite: Ch 221 or equivalent. 2 lectures; 2 three-hour laboratory periods.

Clothing, Textiles, and Related Arts

(*See* HOME ECONOMICS)

Drama

(*See* SPEECH)

Economics

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

Principles that underlie production, exchange, and distribution, etc. 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 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 program.

Ed 351. (C) **Health Education.** 2 hours.

Teaching health education with emphasis on the health knowledge, health attitudes, and health habits of school children, and the development of a health-service program. Special study of the state health education program. Prerequisite: Sc 101, 102, 103; H 150; or equivalent.

Control surveys; computation of state-wide coordinates; topographic mapping;

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.

Ed 358. (C) **Primary Education.** 4 hours.

Principles and procedures of curriculum for primary grades; the young child studied in relation to home, primary school, and other agencies in the community. Designed to acquaint students with modern teaching procedures and materials; and to provide opportunity for application of sound psychological principles to the guidance of children's learning. Class discussion, observations in the training schools, and organization of teaching materials. Prerequisite: Ed 354, Psy 201.

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* 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.

Ed 359. (C) **Intermediate and Upper-Grade Education.** 4 hours.

Principles and procedures of curriculum for intermediate and upper grades. Designed to acquaint the student with modern teaching procedures and materials and to provide opportunity for application of sound psychological principles to the guidance of children's learning. Class discussion, observation in the training schools and organization of teaching materials. Prerequisite: Ed 354, Psy 201.

Engineering

GE 104, 105, 106. **Engineering Fundamentals.** 3 hours each term.

Basic concepts and principles of physical science; elementary technical problems; algebraic composition; training in use of slide rule. One lecture; two three-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. 1 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. 1 lecture; 3 two-hour periods.

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. 2 three-hour laboratory 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. 1 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. 1 recitation; 2 three-hour field and computation periods.

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

Control surveys; compuetation of state-wide coordinates; topographic mapping; theory and use of stadia and plane table; field astronomy. Prerequisite: CE 222. 1 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. 1 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 electric fields and associated circuits, and electric

circuit theory. Prerequisite: Mth 103, Ph 103, GE 103, or instructor's approval. 2 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. 1 lecture; 6 hours of laboratory.

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

Introductory course covering constitution, properties, and design limitations of castings in iron and steel; foundry methods. 1 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. 1 lecture; 1 four-hour laboratory period.

IE 260, 261. (S) **Machine Tool Practices.** 2 hours each term.

Basic and advanced operations of machine tools on prescribed projects illustrative of industrial operations. Correlation of engineering and manufacturing problems and processes. 1 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 (Static).** 3 hours.

Forces and force systems with reference to the equilibrium of rigid bodies; numerous problems. Prerequisite: differential calculus. 2 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. 2 recitations; 1 two-hour period.

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

Production, mechanical properties, and their control as applied to materials of machine and building construction. Corrosion resistance and other service requirements. Service course for nonmajors.

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

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

Terminal Engineering

GE 101, 102, 103. (S) **Engineering Fundamentals.** 3 hours each term.

Basic concepts and principles of physical science; elementary technical problems; algebraic composition; training in use of the slide rule. 1 lecture; 2 three-hour computation periods.

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

GE 201, 202, 203. (S) **General Engineering.** 4 hours each term.

Courses designed for technical terminal students and nonprofessional degree students. Application of the basic principles of science to general problems of engineering. 1 lecture; 1 recitation; 2 three-hour computation periods.

GE 211. (S) **Structural Drafting.** 3 hours.

Timber, steel, and concrete details; conventions and marking systems; connections and truss details; plotting of earthwork cross sections and profiles. 3 three-hour laboratory periods.

GE 213. (S) **Elementary Machine Drafting.** 3 hours.

Simple mechanisms and advanced working drawings; shop practices and requirements; reproduction methods. 3 three-hour laboratory periods.

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 and understanding of literature through study of outstanding works in prose and poetry, selected from all periods, including the twentieth century; includes works in English and translations from other literatures.

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.

Study of the important plays—comedies, histories, and tragedies. Required for majors.

Eng 261, 262, 263. (U) **Survey of American Literature.** 3 hours each term.

American literature from its beginning to the present day. Two consecutive terms required to satisfy the high-school teaching-field requirement in English.

Terminal English

Wr 114. (E) **Vocabulary Building.** 2 hours.

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. This is a no-grade course. It does not carry transfer credit.

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

Written English

Wr K. (U) **Corrective English.** 1 hour any term.

No-grade course. One-term course in the mechanics of English, required of freshmen who receive low ratings in the entrance placement examination. For such students Wr K is a prerequisite for any work in written English.

Wr 111, 112, 113. (U) **English Composition.** 3 hours each term.

The fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to the organization of papers.

Wr 211, 212, 213. (U) **Advanced Writing.** 3 hours each term.

Practice in a variety of literary forms, including fiction. Prerequisite: Wr 111, 112 (with A or B grade), and Wr 113 (with B), or consent of instructor.

Wr 214. (U) **Business English.** 3 hours.

Study of modern practices in business correspondence, primarily for students in the business fields. Analysis and writing of the principal types of correspondence. Prerequisite: Wr 111, 112, 113.

Library

Lib 117. (U) **Use of the Library.** 1 hour.

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

German

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

Provides a thorough grammatical foundation and an elementary reading knowledge of German, as well as an understanding of the spoken language.

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

Review of grammar and composition. Reading of modern German authors. Conversation.

Spanish

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

An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition.

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 213. (S) **Introduction to Forestry.** 3 hours.

Administration and operation of various forest agencies in the United States. Not open to forestry students.

Geography

Geog 105, 106, 107. (U) **Introductory Geography.** 4 hours each term.

A general introduction to the field of geography, in sequence as follows: Geog 105, principles of geography; Geog 106, economic geography; Geog 107, human geography. 3 lectures; 1 two-hour laboratory period.

Geog 201, 202, 203. (U) **Regional Economic Geography.** 3 hours each term.

A study of the major types of production and their geographic background.

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

World survey of geographic fundamentals emphasizing human adjustments to climatic conditions and physical environment; 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 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 or consent of instructor.

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.

Origins, backgrounds, and courses of the first and second World Wars; problems of American war mobilization; war aims and postwar planning. With Hst 207, 208, satisfies group requirement in social science. Prerequisite: Hst 201, 202, 203 or special consent of instructor.

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 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. 2 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. 3 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. 2 lectures; 1 two-hour laboratory period.

Family Life and Home Administration

FL 223. (S) **Family Relationships.** 2 hours.

Brief consideration of mate selection; husband-wife, parent-child, child-child relationships. Does not meet requirement for majors in home economics. Open to men and women.

HAd 239. (S) **Home Management.** 3 hours.

Problems in management of home; management of money, time, and energy in relation to family living. For students not in home-economics degree curricula.

Foods and Nutrition

FN 225. (S) **Nutrition.** 3 hours any term.

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.

HEc 225. (U) **Principles of Dietetics.** 2 hours.

The nutritive value of food; the selection of a proper diet for health, based on dietetic principles. Open to men and women. Required of physical education majors.

Industrial Arts

(*See* ENGINEERING)

Journalism

J 191. (E) Journalism Practice. 1 hour each term.

6 hours maximum credit. Restricted to students working on school publications.

J 211. (U) Introduction to Journalism. 3 hours.

An introduction to the newspaper and other media of mass communication, including news, editorial, pictorial, business, and advertising aspects.

Law Enforcement (Police Training)

LE 011. (E) Police and Society. 2 hours.

A study of the purpose, function, and brief history of the agencies dealing with the administration of justice. Survey of requirements for entering police service. Origin and evolution of law enforcement agencies. Discussion of crime, the criminal, traffic, and vice as social and police problems, function of the courts, prosecuting and defense attorneys, correctional and penal institutions, probation and parole, American and foreign police systems.

LE 012. (E) Organization and Administration of Law Enforcement Agencies. 2 hours.

Application of the principles of organization and administration to law enforcement agencies of federal, state, and municipal levels. Continuation of discussion of the principles of organization and administration as pertaining to service.

LE 013. (E) Elements of Law for Police Officers. 2 hours.

Overview of salient elements of law which have special application to police work, including criminal law, law of arrests, court procedures, automobile law, laws of evidence, and elements of crime.

LE 021. (E) Police Techniques I. 2 hours.

Study and laboratory work in the collection and preservation of evidence, statements and confessions, observation and description, notes and sketches, surveillance and interrogation.

LE 022. (E) Police Techniques II. 2 hours.

Identification, including toxicology, photography, handwriting, *moulage*, scientific lie detecting, and ballistics.

LE 023. (E) Police Techniques III. 2 hours.

Problems of traffic control, traffic laws, radio communication, and field work in police training.

Library

(*See* ENGLISH)

Mathematics

Mth 5. (S) Elementary Mathematics. 1 hour.

A short course in numerical calculations, elements of algebra, and trigonometry, designed to aid students in elementary science courses. 3 recitations.

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 higher 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 analytic geometry. Prerequisite: Mth 100 or equivalent, and Mth 20 or equivalent.

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

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

Mth 104, 105, 106. (S) **Mathematics of Business and Industry.** 3 hours each term.

Algebra and mathematics of finance. Prerequisite: Mth 10 or equivalent high-school algebra. Mth 104 not open to students receiving credit in 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 (S) or Mth 105 (U).

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

Elementary statistics in the application to problems in psychology, social science, business, and education.

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, application. 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.** 2 hours each term.

Music fundamentals, scales, key relationships, intervals, triads; harmonizations of various triad and seventh chords in all positions, nonchord tones, free harmoni-

zation and simple modulation; keyboard work, chord recognition, sight-singing, and analysis correlated with written work. 5 periods.

Mus 127, 128, 129. (U) **Introduction to Music Literature.** (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 190. (U) **Applied Music.** 1 hour any term.

Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. Prerequisite: consent of Mr. Stehn.

Mus 195. (U) **Band.** 1 hour each term.

Six hours maximum credit.

Mus 196. (U) **Orchestra.** 1 hour each term.

Six hours maximum credit.

Mus 197. (U) **Choral Union.** 1 hour each term.

Six hours maximum credit.

Mus 211, 212, 213. (U) **Music Theory II.** 2 hours each term.

For description, see Mus 111, 112, 113. Prerequisite: Mus 111, 112, 113.

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

A musical background for the elementary-school teacher; singing children's song material; acquiring good vocal habits; reading music; experiencing simple problems in rhythm; listening to music; analyzing its forms; learning keys, scales, intervals, primary chords, and their application to the piano keyboard.

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; dictation.

Mus 283. (C) **Music III. Music Education.** 3 hours.

The close relationship between music education and other areas in education; planning a musical environment; directing the experiences of children in music; studying principles and procedures in teaching music skills.

Mus 290. (U) **Applied Music.** 1 hour any term.

Sophomore year. Continuation of Mus 190, which is prerequisite.

Nursing Education

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

Home care of the sick; demonstration of ordinary nursing techniques under home conditions; improvising equipment. Designed primarily for students who are not preparing for professional nursing. An elective for both men and women. 1 lecture; 3 hours laboratory.

Nutrition

(*See* HOME ECONOMICS)

Philosophy

Phl 201. (U) **Elementary Logic.** 3 hours.

An introduction to the study of argument, reasoning, proof. How to recognize, analyze, criticize, and construct the main types.

Phl 202. (U) **Problems of Philosophy.** 3 hours.

An introduction to the study of some of the persistant problems of philosophy.

Phl 203. (U) **Elementary Ethics.** 3 hours.

An introduction to problems which mark the philosophical study of morality, e.g., right and wrong, free will and determinism, morals and society, etc.

Physical Education

Service Courses

HE 150. (U) **Health Education (Men).** 1 hour any term.

Study of personal health problems which confront the college student; the basic scientific principles of healthful living. Required of all freshman men. 1 period.

PE 180. (U) **Physical Education (Women).** 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 activity periods.

PE 190. (U) **Physical Education (Men).** 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 activity 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 121. (U) **Introduction to Physical Education.** 2 hours fall.

Basic mechanics of movement, form, and skills in activities. Basic principles of physiology of exercise.

PE 124, 125, 126. (U) **Physical-Education Activities (Women).**
2 hours each term.

For majors. Instruction and practice. Fall: fundamentals I, swimming I; winter: fundamentals II, tumbling; spring: tennis, elementary dance.

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 224, 225, 226. (U) Physical-Education Activities (Women). 2 hours each term.
For majors. Instruction and practice. Fall: soccer and speedball, hockey; winter: folk and square dancing; spring: swimming II, track and field.

PE 227. (U) Elementary Aquatics (Men). 2 hours.
For majors. Elementary swimming, diving.

PE 228. (U) Folk and Square Dancing (Men). 2 hours.
For majors. Rhythmic fundamentals and dances.

PE 229. (U) Wrestling (Men). 2 hours.
For majors.

Physics

Ph 101, 102, 103. (S) Engineering Physics. 3 hours each term.
Studies in general physics adapted to students in engineering. 1 lecture; 2 recitations; 2 one-hour laboratory periods.

Ph 161. (S) Rudiments of Photography. 2 hours each term.
For students not having the science prerequisites for Ph 361. Does not admit to Ph 362. 1 lecture; 1 two-hour laboratory period.

Ph 201, 202, 203. (S) General Physics. 4 hours each term.
Mechanics, sound, heat, light, electricity, and magnetism. 2 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. 2 lectures; 1 two-hour laboratory period.

Ph 334. (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. 1 lecture; 2 two-hour laboratory periods.

Ph 361. (S) Photography. 3 hours any term.
The hand camera, developing, printing, toning, enlarging. Prerequisite: college chemistry or physics or previous photographic experience, with consent of instructor. 1 lecture; 2 two-hour laboratory periods.

Ph 362. (S) Photography. 3 hours any term.
Commercial photography; view cameras, chemicals, and solutions; copying, photography of small objects, lighting, photosketching, lantern slides. Prerequisite: Ph 361. 1 lecture; 2 two-hour laboratory periods.

Ph 363. (S) Photography. 3 hours spring.
Continuation of Ph 362. Composition; exteriors, interiors, flashlights, portraits; telephoto lenses, infrared. 1 lecture; 2 two-hour laboratory periods.

Police Training

(*See* LAW ENFORCEMENT)

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 only.

Psychology

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 co-ordinated with Psy 201, 202, Psy 204, Psy 205. 1 laboratory period each week.

Public Speaking

(*See* SPEECH)

Religion

R 111, 112, 113. (U) **Introduction to Religious Thought.** 3 hours each term.

Introduction to religious problems and to methods of studying these problems. Religion in different cultures. Consideration of some of the common questions men have asked about God, the soul, immortality, good and evil, the religious fellowship and society, the nature and destiny of man. Criteria for evaluating religion.

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. 3 lectures; 1 two-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. 3 lectures; 1 two-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. 4 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, manifolding, speed practice. Students with at least one year of typing are not permitted to take SS 121 for credit. 5 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 phrases; dictation and transcripts covering vocabularies of representative businesses; legal forms; newspapers and magazine articles. Prerequisite: SS 113, 123 or equivalent. 3 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.

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.

SSc 111. (C) **Orientation.** 1 hour.

A course in effective adjustments to college and social needs. Effective means and mtehods of study; use of the library; time budgeting; importance and spacing of reviews; the amount and type of recreation suitable; social adjustments for happy and effective living; means and methods of modifying personality deficiencies.

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 sociological concepts developed during the first two terms. Prerequisite: sophomore standing or consent of instructor.

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

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

Speech

Sp 111, 112, 113. (U) **Fundamentals of Speech.** 3 hours each term.

Projects in extempore speaking. Primary emphasis on content and organization, with attention also to the student's adjustment to the speaking situation, effective delivery, audience motivation, and language of the speech.

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 211. (U) **Interpretation.** 2 hours.

The application of the principles of oral reading to literature.

Sp 221. (U) **Public Discussion.** 2 hours.

Preparation of speeches for delivery before public audiences.

Sp 232. (S) **Group Discussion.** 3 hours.

Techniques and practice in preparing, leading, and participating in the many types of discussion used by extension workers, club leaders, teachers, and all business, technical, and professional people, such as conferences, specialized recitations, panels, lecture forums, and symposiums. Prerequisite: Sp 111.

Sp 251. (U) **Elements of Acting.** 2 hours.

Elementary principles of acting technique.

Sp 261, 262, 263. (U) **Fundamentals of Stagecraft.** 3 hours each term.

Planning and construction of stage settings and properties; principles of lighting; mechanics of the physical stage. Practical experience in connection with the production of plays.

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.

Writing

(*See* ENGLISH)

Zoology

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

A study of animal biology, beginning with the invertebrates; comparative vertebrate anatomy during spring term. 2 lectures; 2 two-hour 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: Bi 201, 202, 203. 2 lectures; 2 three-hour laboratory periods.

Z 326. (S) Comparative Vertebrate Embryology. 4 hours.

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

Z 331, 332. (S) Physiology. 3 hours each term.

Especially for students majoring in home economics, pharmacy, and zoology or minoring in physical education. Prerequisite: Bi 203, or consent of instructor. 2 lectures; 1 two-hour laboratory period.

Extension Services

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, General Extension Division; Professor of Education.

VIRON ALONZO MOORE, M.A.
Acting Dean, General Extension Division; Associate Professor of Education.

JAMES C. CAUGHLAN, Ph.D.
Acting Assistant Director, General Extension Division; Associate Professor of Education.

JEAN P. BLACK, Ph.D.
Librarian, General Extension Division; Associate Professor of History.

ERRETT E. HUMMEL, D.Ed.
Administrative Assistant to the Dean; Assistant Professor of Education.

DOROTHY DOERING SMITH, B.A.
Accountant; Instructor in Extension Teaching.

Department of State-Wide Services

VIRON A. MOORE, M.A.
Head of State-Wide Services; Associate Professor of Education.

HOWARD JOHN AKERS, M.A.
Administrative Assistant, Department of State-Wide Services; Head of Correspondence Study; Assistant Professor of Education.

MOZELLE HAIR, B.A.
Head Emeritus of Correspondence Study; Assistant Professor Emeritus of Sociology.

HAROLD W. BERNARD, Ph.D.
Assistant Professor of Education.

HELEN G. BROWN.
Head Secretary; Instructor in Extension Teaching.

MILDRED ERICSON, B.S.
Instructor in Biological Science.

W. KENNETH FERRIER, M.S.
Assistant Professor of Education.

MAUDE GARNETT, M.A.
Associate Professor of Music Education.

ROBERT J. GRIDLEY, B.S.
Field Representative; Instructor.

RUTH HOPSON, Ph.D.
Assistant Professor of General Science.

EVELYN HUDSON, M.S.
Assistant Professor of Physical Education.

JENNELLE MOOREHEAD, M.A.
Associate Professor of Health Education.

VICTOR N. PHELPS, Ed.D.
Field Representative; Assistant Professor of Education.

MILDRED C. SCHMIDT, M.A.
Assistant Professor of Education.

DAVID H. STEWART, M.A.
Field Representative; Instructor in English.

JEAN SUTHERLAND, B.A.
Instructor in Art.

HERMAN VOELTZ, M.A.
Instructor in History.

Portland Extension Center

MARGARET MORRISON SHARP.
Director; Assistant Professor of Extension Teaching.

JAMES CARL CAUGHLAN, Ph.D.
Graduate Adviser; Associate Professor of Education.

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.
Professor of Business Administration.

LOUIS F. JUDKINS, B.J.
Manager of Information Services; Instructor in Journalism.

VERL S. LEWIS, M.A.
Assistant Professor of Sociology and Social Work.

IVAN G. NAGY.
Assistant Professor of Political Science.

EGBERT S. OLIVER, Ph.D.
Assistant Professor of English.

VINCENT A. OSTROM, M.A.
Assistant Professor of Political Science.

ALFRED POWERS, B.A.
Professor of Journalism.

CLARK P. SPURLOCK, M.A.
Student Counselor; Assistant Professor of History.

HELEN WILDERMAN, A.B.
Secretary; Instructor in Extension Teaching.

Radio Station KOAC

JAMES M. MORRIS, B.S.
Program Manager; Associate Professor of Radio Speech.

GLADYS DAWSON CHAMBERS, M.A.
Director of Women's Programs; Instructor in Radio Speech.

ELIZABETH E. DOTSON, B.S.
Director of KOAC School of the Air.

ARNOLD EBERT, B.S.
Director of Agricultural Programs; Assistant Professor of Agricultural Extension.

ROBERT C. HINZ, B.A.
News Editor and Announcer; Instructor in Radio Speech.

JAMES S. NELSON.
Production Manager; Instructor in Radio Speech.

DON S. SOMERVILLE, M.S.
Specialist in Radio Education; Assistant Professor of Radio Speech.

DORICE STEWART.
Secretary.

Visual Instruction

WILLIAM CURTIS REID, Ph.D.
Head of Department; Associate Professor of Visual Instruction.

JOHN F. SHRAWDER, B.A.
Instructor in Visual Instruction.

CHARLES VAN HENKLE, A.B.
Specialist in Visual Aids; Instructor in Visual Instruction.

NITA ELLISON.
Secretary.

Vanport Extension Center

STEPHEN E. EPLER, Ph.D.
Director; Professor of Education.

PHIL H. PUTNAM, Ed.D.
Assistant Director; Associate Professor of Economics.

RICHARD B. HALLEY, M.S.
Men's Adviser; Assistant Professor of Economics.

JOSEPH V. HOLLAND, M.Ed.
Athletic and Recreational Director; Assistant Professor of Education.

LESLIE B. NEWHOUSE, B.S.
Business Manager; Assistant Professor of Business Administration.

Portland Summer Session

JAMES C. CAUGHLAN, Ph.D.
Director, Portland Summer Session; Associate Professor of Education.

THELMA O. BAIRD.
Secretary.

A State-Wide Campus

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 session for the institutions of the State System. Its work is organized into the following departments: At Corvallis—Visual Instruction; Radio Station KOAC. At Eugene—Department of State-Wide Services (Correspondence Study and Night Classes). At Portland—Portland Extension Center; Vanport Extension Center; Summer Sessions.

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 1949-50. 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 three 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 in the daytime and 1,000 watts power in the 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, Eugene, Salem, and Monmouth.

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, 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 session. Information concerning the summer sessions is issued in separate bulletins.

Enrollment in General Extension Division

July 1, 1949—June 30, 1950

Extension Classes (City)	Undergraduates			Graduates			Auditors			Noncredit			Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Portland Center	1,614	2,504	4,118	338	303	641	297	566	863	128	109	237	2,377	3,482	5,859
Vanport Center	1,951	366	2,317	—	—	—	—	—	—	—	—	—	1,951	366	2,317
State-Wide Classes															
Albany	9	93	102	10	17	27	—	5	5	—	—	—	19	115	134
Ashland	5	10	15	—	—	—	1	4	5	—	—	—	6	14	20
Astoria	12	74	86	11	16	27	1	1	2	—	—	—	24	91	115
Baker	5	35	40	6	7	13	—	—	—	—	—	—	11	42	53
Bandon	1	10	11	5	7	12	—	—	—	—	—	—	6	17	23
Bend	18	61	79	—	—	—	13	13	26	—	—	—	31	74	105
Bend C.C.*	67	44	111	—	—	—	—	1	1	—	—	—	67	45	112
Bonneville	12	4	16	—	—	—	7	10	17	—	—	—	19	14	33
Canby	2	28	30	—	—	—	1	—	1	—	—	—	3	28	31
Central Point	5	36	41	—	—	—	13	15	28	—	—	—	18	51	69
Coos Bay	6	99	105	2	5	7	—	6	6	—	—	—	8	110	118
Coquille	8	64	72	—	—	—	1	8	9	—	—	—	9	72	81
Corvallis	55	154	209	29	22	51	20	30	50	—	—	—	104	206	310
Cottage Grove	3	30	33	1	5	6	—	1	1	—	—	—	4	36	40
Dallas	2	15	17	9	8	17	—	—	—	—	—	—	11	23	34
Enterprise	11	42	53	—	—	—	—	—	—	—	—	—	11	42	53
Estacada	3	29	32	6	6	12	—	—	—	—	—	—	9	35	44
Eugene	184	311	495	41	86	127	65	58	123	132	144	276	422	599	1,021
Florence	2	21	23	—	—	—	1	2	3	—	—	—	3	23	26
Forest Grove	9	25	34	22	13	35	—	—	—	—	—	—	31	38	69
Grants Pass	27	91	118	7	5	12	—	2	2	—	—	—	34	98	132
Halsey	3	16	19	—	—	—	—	—	—	—	—	—	3	16	19
Harrisburg	2	23	25	—	—	—	—	1	1	—	—	—	2	24	26
Hermiston	13	56	69	—	—	—	—	—	—	—	—	—	13	56	69
Hillsboro	95	324	419	2	1	3	14	8	22	—	—	—	111	333	444
Hood River	14	68	82	13	7	20	2	21	23	—	—	—	29	96	125
John Day	2	5	7	—	—	—	—	—	—	—	—	—	2	5	7
Klamath Falls	63	216	279	18	12	30	35	66	101	25	23	48	141	317	458
Klamath Falls C.C.*	67	102	169	—	—	—	9	12	21	—	—	—	76	114	190
La Grande	2	4	6	34	14	48	—	1	1	—	—	—	36	19	55
Lake Grove	2	18	20	—	—	—	—	—	—	—	—	—	2	18	20
Lakeview	2	13	15	—	—	—	—	—	—	—	—	—	2	13	15
Lebanon	9	78	87	7	11	18	1	1	2	—	—	—	17	90	107
Lyons	3	14	17	—	—	—	—	1	1	—	—	—	3	15	18
Madras	—	13	13	—	—	—	—	—	—	—	—	—	—	13	13
McMinnville	20	89	109	3	3	6	1	2	3	—	—	—	24	94	118
McNary	24	10	34	—	—	—	7	1	8	—	—	—	31	11	42
Medford	26	84	110	7	6	13	3	7	10	—	—	—	36	97	133
Milton	5	13	18	—	—	—	1	2	3	—	—	—	6	15	21

* Community College.

Enrollment in General Extension Division

(Continued)

July 1, 1949—June 30, 1950

	Undergraduates			Graduates			Auditors			Noncredit			Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Milwaukie	1	23	24	4	9	13	—	—	—	—	—	—	5	32	37
Molalla	—	29	29	—	—	—	—	2	2	—	—	—	—	31	31
Monmouth	12	33	45	15	7	22	—	1	1	—	—	—	27	41	68
Monroe	—	6	6	—	1	1	—	3	3	—	—	—	—	10	10
Moro	5	10	15	—	—	—	—	—	—	—	—	—	5	10	15
Myrtle Creek	1	27	28	10	7	17	—	—	—	—	—	—	11	34	45
Newberg	4	30	34	—	—	—	—	—	—	—	—	—	4	30	34
Newport	15	60	75	1	5	6	—	2	2	—	—	—	16	67	83
North Bend	5	23	28	6	8	14	—	1	1	—	—	—	11	32	43
Ontario	4	73	77	28	15	43	—	—	—	—	—	—	32	88	120
Oregon City	5	—	5	6	—	6	—	—	—	—	—	—	11	—	11
Pendleton	19	40	59	18	11	29	—	3	3	—	—	—	37	54	91
Prineville	5	32	37	—	—	—	2	—	2	—	—	—	7	32	39
Rainier	6	31	37	1	3	4	—	1	1	—	—	—	7	35	42
Redmond	2	21	23	9	—	9	—	2	2	—	—	—	11	23	34
Roseburg	17	142	159	38	28	66	2	9	11	—	—	—	57	179	236
Salem	93	210	303	27	39	66	8	10	18	24	—	24	152	259	411
Sandy	3	26	29	—	—	—	—	—	—	—	—	—	3	26	29
Seaside	1	11	12	—	2	2	—	1	1	—	—	—	1	14	15
Silverton	7	28	35	—	—	—	—	—	—	—	—	—	7	28	35
Stayton	4	6	10	—	—	—	4	—	4	—	—	—	8	6	14
St. Helens	3	45	48	—	—	—	—	—	—	—	—	—	3	45	48
Sutherlin	2	22	24	—	—	—	—	—	—	—	—	—	2	22	24
Sweet Home	7	33	40	12	9	21	1	—	1	—	—	—	20	42	62
Taft	1	7	8	—	2	2	2	1	3	—	—	—	3	10	13
The Dalles	—	25	25	4	5	9	—	—	—	—	—	—	4	30	34
Tigard	6	28	34	—	—	—	—	—	—	—	—	—	6	28	34
Tillamook	13	51	64	2	11	13	—	—	—	—	—	—	15	62	77
Vale	13	21	34	2	—	2	—	—	—	—	—	—	15	21	36
Veneta	2	17	19	—	—	—	1	1	2	—	—	—	3	18	21
Willamina	3	17	20	—	—	—	—	—	—	—	—	—	3	17	20
Yoncalla	2	13	15	—	—	—	—	—	—	—	—	—	2	13	15
Total Extension Classes	4,624	6,432	11,056	754	716	1,470	513	882	1,395	309	276	585	6,200	8,306	14,506
CORRESPONDENCE STUDY															
New Registrants	1,293	1,418	2,711†	—	—	—	—	—	—	—	—	—	1,293	1,418	2,711†
Old Registrants	861	948	1,809	—	—	—	—	—	—	—	—	—	861	948	1,809
Total, Correspondence Study	2,154	2,366	4,520†	—	—	—	—	—	—	—	—	—	2,154	2,366	4,520†
‡Grand Total, Extension Classes and Correspondence Study	6,778	8,798	15,576	754	716	1,470	513	882	1,395	309	276	585	8,354	10,672	19,026

† June registration estimated from last year's report.

‡ Figures include 121 men and 354 women who took classes in more than one center.

State Board of Higher Education

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Budget Director

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Business Office

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

HAROLD ROWLEY, B.S.
Chief Accountant

WILLIAM RALPH STOVALL.
Assistant Chief Accountant

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

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Director of High-School Teacher Training

ROBEN J. MAASKE, Ph.D.
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General Extension Division

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

VIRON ALONZO MOORE, M.A.
Assistant Director of General Extension Division

Libraries

WILLIAM HUGH CARLSON, M.A.
Director of Libraries

ELZIE VANCE HERBERT.
Head of Orders Department

IMOGENE CUSAC, B.A., B.A. in L.S.
Cataloger for Union Catalog

High-School Relations

E. DEAN ANDERSON, M.A.
Executive Secretary

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