
Academic Calendar - Southwestern Oregon Community College
~ .. • *

## SUMMER SESSION 1970

June 16, Tuesday $\qquad$ Placement Examination

June 22, Monday $\qquad$ Registration for Summer Session
June 23, Tuesday $\qquad$ Classes Begin
June 24, Wednesday ...-............................ Late registration fee charges begin July 3, Friday ...... ..... .......... Last day for registration or addition of courses July 24, Friday ............-. Last day to withdraw without possibility of penalty August 14, Friday $\qquad$ Summer Session ends

## FALL TERM, 1970

September 14-18 ..............................- Advising, Orientation for Fall Term
September 24 and 25 .....-... Registration (consult class schedule for details)
September 28, Monday $\qquad$ Classes Begin September 29, Tuesday $\qquad$ Late registration fee charges begin October 9, Friday $\qquad$ Last day for registration or addition of courses November 6, Friday .-.. Last day to withdraw without possibility of penalty November 20-29 $\qquad$ Thanksgiving Day Holiday

December 14-18
$\qquad$ Term Examinations

## WINTER TERM 1971

December 7-18 $\qquad$ Advising, Orientation for Winter Term

## SPRING TERM, 1971

March 8-19 $\qquad$ Advising, Orientation for Spring Term March 29, Monday ................................_____________ Registration
 March 31, Wednesday $\qquad$ Late registration fee charges begin April 9, Friday .................. Last day for registration or addition of courses May 7, Friday $\qquad$ Last day to withdraw without possibility of penalty May 30-31 $\qquad$ Memorial Day
June 7.11 $\qquad$ Term Examinations

June 13 Registration for Summer Session


## Southwestern Oregon Community College

## LOCATION

Southwestern Oregon Community College is situated on a 125 acre campus, bordering the Empire Lakes in Coos Bay, Oregon. The surrounding urban area is comprised of the municipalities of North Bend, Coos Bay, Eastside, and several unincorporated communities. Access to the campus is from Newmark Avenue in Coos Bay, a through road to highway 101, the main North-South coastal route

## HISTORY

The 1970-71 academic year at Southwestern Oregon Community College will be the tenth year of operation. The courses of study for lowerdivision students, adults seeking cultural or general education experiences, students training for technical occupations, and employed residents of the district seeking to keep abreast of new developments in their fields have already touched directly an estimated 14,000 individuals
Voter approval was given the formation of a community college district and directors were elected in a special election held on May 1, 1961. By September 25 of 1961, the first day of classes for the new college, approximately 266 students had enrolled. The college growth and acceptance is demonstrated by the fact that over 2,000 students enrolled during the winter quarter of 1970 .

## FACILITIES

Southwestern Oregon Community College students met for classes in the old Sunset Avenue School near the airport in North Bend. The gymnasium, left over from the Navy's stay during World War II, was renovated and became part of what is now known as the "North Bend Campus." Many classes were held at Marshfield High School. Because of the lack of adequate space, evening programs predominated during the first year,
In 1962 the east wing of the Michigan Avenue School in Empire was leased by the college. Several of Southwestern Oregon Community College's technical and business programs utilized the six rooms in the Empire school until fall, 1964.
Administrative facilities, which at first were divided between the North Bend campus and Marshfield High School, also were expanded during 1962 The old hotel building became the college administration building, and facilities formerly located at Marshfield High and at the airport moved "up the hill."

During the 1963.64 school year, the college again expanded facilities by leasing the former Naval Reserve building near the airport. Two new buildings were completed at the Empire Campus during this period.
In September, 1965, three additional permanent buildings were completed and available to the college: a classroom building, a laboratory building, and an administration building which also houses a Counseling Center. A library and physical education building were completed during the fall of 1967. The Learning Resource Center was completed in 1969. The total developed area of the campus will soon be almost forty acres. Seven permanent buildings are being utilized.
Existing facilities have enabled the College to emphasize daytime curricula. As a result, more full-time students are engaged in the various courses of study offered at Southwestern Oregon Community College. Evening programs do, however, continue to constitute an important part of the total college offerings.
The years ahead will see further additions to the campus including a community service building, a Fine Arts Center, and a natural science museum. The Empire Lakes campus has been planned to accommodate between 2500 and 3000 students by 1972.

## ACCREDITATION

Southwestern Oregon Community College is accredited by the Northwest Association of Secondary and Higher Schools. In addition, the curricula and standards are approved by the Oregon State Department of Education. All lower-division transfer courses applicable to a baccalaureate degree are approved by the Oregon State System of Higher Education.

## FACULTY

In all cases faculty members are approved either by the Oregon State System of Higher Education or the Oregon Board of Education. The number of full-time teachers has increased each year, from less than twenty in 1961 to over fifty today. Part-time instructors continue to serve in many areas.

## ADMINISTRATION

Representing the patrons of the district in the conduct of college affairs is the group known as the Board of Education, Southwestern Oregon Area Education District. The Board makes the policy which the Presi-

## About the College

dent puts into operation and decides what is needed and how it can be obtained. The Board is assisted by a Budget Committee.
Today, President Jack E. Brookins, the college's chief administrator, is assisted by a Dean of Instruction, an Assistant Dean of Instruction, Dean of Student Services, Coordinator of Community Services, and a Business Manager.
In all endeavors, Southwestern Oregon Community College has moved ahead gathering tradition and experience. The formative years continue. The challenge remains great. The support of the residents of the education district has made progress possible. Southwestern Oregon Community College is a community college-socially, culturally, and educationally.

## PURPOSES

Southwestern Oregon Community College, serving the Southwestern Oregon Area Education district, is a community college. It serves collegebound youth, youth aspiring to a career in a technical field, adults seeking cultural or general education experiences, and workers desiring to keep abreast of new developments in their field or to gain new skills.
The Board of Education of Southwestern Oregon Community College is guided in their policy-making decisions by a set of purposes. These purgoses explain what the college offers to the community:

Lower Division College transfer and preprofessional education as an integral part of the Oregon State System of Higher Education;
Occupational-Vocational education for those students whose formal education will end when they finish college;
Continuing Education to assist in meeting the many educational and occupational training needs of adults living in the area served by Southwestern Oregon Community College;
General Education opportunities for those with professional or vocational objectives, as well as for those who aspire to a liberal education;
Guidance and Counseling so that every student may discover his aptitudes, make a wise occupational selection and prepare for the successful pursuit of his life's work.
Special Services to the community, such as lectures, cultural programs, testing and counseling for non-high school graduates, public forums, institutes, and short courses.

## LEARNING RESOURCE CENTER

The Learning Resource Center in Tioga Hall is the campus' newest build-ing- five levels housing the Library, Study Center, Listening Center, Bookstore, Lounge, Audio-Visual and Instructional Materials Centers, Classrooms, Studios and Offices. It maintains a balanced collection of materials to inform, excite and challenge the mind. The LRC houses a basic reference collection, the latest books in the liberal arts, technical and vocational fields; current popular and professional periodicals and a representative selection of metropolitan newspapers. Nonprint materials and equipment utlized by students, faculty and the community materials and equipment utlized by students, faculty and the community
include recordings, audio tape, video tape, slides and film-strips, $8 \cdot \mathrm{~mm}$ include recordings, audio tape, video tape, slides and film-strips, $8 \cdot \mathrm{~mm}$
and $16-\mathrm{mm}$ films; transparencies, oversize prints, projectors, recorders, and other instructional materials.

## BOOKSTORE

Required textbooks and classroom supplies can be purchased at the College bookstore in the Learning Resource Center.

## SUMMER SESSION

The only requirement for admission to summer session is the ability to do the work. Those persons who wish to work toward degrees and those who expect to attend sessions during the Fall, Winter, and Spring at Southwestern Oregon Community College must meet standard admission requirements.

## COMMUNITY SERVICE PROGRAM

The community service program of the College includes a wide variety of activities. The College cooperates with many community groups and agencies in the operation of the program. Included among the activities are lectures and forums, concerts, the annual film series, college speakers' bureau, the Fine Arts Festival, special workshops and institutes, the Great Decisions program. The College has cooperated with such groups as the Little Theater on the Bay and the Coos Artists League in the development of some activities and programs.
The College expands its off-campus activities to offer classes in other communities if there is need and sufficient enrollment to justify them.

## Board of Education, Budget Committee, Administration, Foundation

## BOARD OF EDUCATION

Southwestern Oregon Area Education District
Karl Gehlert, Coos Bay Ben R. Chandler, Coos Bay Merlen L. Freeman, Coos Bay Robert Detlefson, Myrtle Point Mrs. Maxine Mauney, Coquille Ralph P. Stuller, Reedsport Lloyd Kuni, Coos Bay

## BUDGET COMMITTEE

A. P. Stinchfield, Narth Bend Cedric Cross, Riverton Fred Eason, Coos Bay Harry Maxwell, Reedsport Gene Mayberry, Myrtle Point Ruth Prahar, Bandon


COLLEGE ADMINISTRATIVE OFFICERS
Jack E. Brookins, President of the College
Dr. John R. Rulifson, Dean of Instruction
James R. Piercey, Assistant Dean of Instruction and Director of Vocational Education
Dr. Tenison Haley, Dean of Student Services
Harvey N. Crim, Business Manager, Deputy Clerk
Robert Miller, Coordinator of Community Services

## FOUNDATION MEMBERS

Mrs. Ken Rolfe, President, Powers
Mrs. Frances McKenzie, Vice-President, Powers
Mrs. C. J. O'Neil, Secretary, Coos Bay
Mrs. Eldon Brodie, Myrtle Point
Mrs. L. C. Garner, North Bend
James Hanna, Bandon
Henry Hansen, North Bend Cecil Kemp, Bandon
Jesse J. Laird, Myrtle Point Mrs. Jane Lyons, Coos Bay David R. Philpott, Coquille Mrs. C. A. Rietman, Coquille


6 Admissions and Registration


## INDEX

Page
Admission Procedure .---.-.-...-....---................................ 7

Registration Procedure .........................------.............. 7
Regular Fees ...............................................................-. 8
Special Fees ..-.-............................................................-. 8
Tuition and Fees .............................................................. 7

Who May Enroll ................................................................... 7


## Admission Procedure

## WHO MAY ENROLL

Students who are graduates of accredited high schools or have an equivalency certificate or are at least 18 years of age are eligible for admission to Southwestern Oregon Community College. Other students may be granted admission by the Coordinator of Admissions.

## ADMISSION PROCEDURE

To be officially admitted to the college as a regular student, the following items must be on file in the Admissions office:

1. Application for Admission to Southwestern Oregon Community College. The application form may be obtained at the college or at any one of the high schools in the college district.
2. Official transcripts of all high school work. (If the student has passed the G.E.D. examination, the certificate should be presented). Although graduation from High, School is strongly urged, it is not required for enrollment at the college.
3. Official transcripts from all colleges and universities which the student has attended since high school.
4. Scores from the SWOCC placement tests (scores from such entrance examination as the ACT, or CEEB, including SAT, English ACH. and Math ACH. may be filed to assist in advising). The SWOCC placement tests are given at regularly announced times throughout the year.
5. New students are strongly urged to attend one of the preregistration Orientation Seminars, held throughout the summer. A student is eligible to attend a seminar as soon as he has filed an appplication for admission and has taken the placement examinations. Enrollment for each seminar is limited; thus, it is necessary to secure a reservation for a specific seminar. This may be done through the Student Services Office

## REGISTRATION PROCEDURE

Details of the final registration procedure are discussed with the student at the preregistration interview.
Each student must register in person and is not officially registered until tuition and fees have been paid.

A quarterly schedule of classes is published in advance of each registration period. This schedule contains specific registration instructions.

## WITHDRAWAL

Students desiring to withdraw from one or more courses (or from the college) will need to follow the appropriate procedure as outlined below:

Before the end of the sixth week of the term: The student should file a drop-add card with the Admissions Office. The student should consult with his advisor and instructors, and obtain their signatures on the form. No record of the courses dropped will appear on the transcript and no grade is assigned.

After the sixth week of the term: A student may withdraw from courses (or from the college) by consulting with his advisor, instructors, and a counselor and obtaining their signatures on the withdrawal form. A grade will be assigned by the instructor. Responsibility for withdrawal rests with the student; ceasing to attend does not constitute withdrawal, Failure to withdraw formally may result in an " $F$ " in the course. Under exceptional circumstances students may initiate withdrawal by a letter written to the Coordinator of Admissions. Proper withdrawal is noted on the student's transcript and protects his academic record.

## TUITION AND FEES

Fees are payable in full at the time of registration. The right is reserved to make changes in any and all fees at any time, except that fees announced for any given term may not be increased after the date announced for the registration in such term. This does not affect the right of the president of the college to levy special charges at any time should conditions make them necessary.

## Admissions and Registration

Payment of the stipulated fee entitles all students registered for aca demic credit, full-time and part-time, to all services maintained by the college for the benefit of students. These services include use of the library, use of laboratory and course equipment, and materials in con nection with courses for which the student is registered, counseling and testing services, subscription to the student newspaper, and admission to certain events sponsored by the college. No reduction in fees is made to students who do not intend to avail themselves of these services.

## REGULAR FEES

Regular curriculum students. This applies to a program of eight or more credits ( 15 or more clock hours of Technical-Vocational work) per term $\qquad$ . $\$ 90.00$
Note: Fees as listed include a $\$ 10.00$ student activity fee.
Practical Nursing Fee: Payable in three installments (16 week periods) $\qquad$
Matriculation Fee for Practical Nurse applicants payable at time of official acceptance. Not refundable but applies on tuition fee $\qquad$ 50.00

Out-of-district resident in state. In addition to full-time
fee, per term
resident in in state. In addition to full-.................................................................... 45.00

Out-of-state fee. In addition to full-time fee, per term 90.00

## Part-time students:


Note: The above amounts include student body fees.

## SPECIAL FEES

Laboratory Fees for certain courses are assessed by the office in varying amounts and are payable at time of registration.
Fees for special courses and programs not falling into the regular college pattern will have their fees determined by the administration of the college.
Staff Fee: Liberal Arts Division-per credit hour $\qquad$ $25 \%$ of Reg. Fee Technical-Vocational and General Education
All full-time employees, $25 \%$ of Reg. Fee All full-time employees, with the approval of the president, may be
admitted to one course each term. Part-time employees, if employed half-time or more, may register at the staff fee rate.
Performance Studies Fee-per credit hour
$-. \quad \$ 30.00$ Performance fees are special fees for each credit hour earned in the private study of a musical instrument (music 190 or 290 ).
Late Registration Fee: ( $\$ 5.00$ maximum) (Charges begin after the second class session) ................................. per day $\$ 1.00$
 If institutional charges are met by a check which is returned because of any irregularity-NSF, illegible signature, etc. - a fine of $\$ 1.00$ per day will be charged, maximum $\$ 5.00$.
Reinstatement Fee $\$ 2.00$ If for any reason a student has his registration canceled during a term but is later allowed to reenter, he must pay the reinstatement fee.
Transcript Fee .......-...-. $\$ .50$ and $\$ 1.00$ Each student is entitled to his first transcript free. Subsequent copies will be furnished at the rate of $\$ 1.00$ first copy and $\$ .50$ additional copies furnished simultaneously.
Graduation Fee-paid 30 days prior to graduation $\$ 5.00$
Audit Fee-same as regular fee.
Special Examination Fee $\qquad$ \$2.00 per credit hour

Challenge Examination Fee \$15

## Admissions and Registration

## TUITION OFFSET ALLOWANCE

A tuition offset plan established by the college board is in effect for students residing in the college district. An offset against tuition is made in accordance with the school district in which the student resides.

## Bandon, Coquille, Reedsport, or students living beyond

15 miles from campus
25\% Reduction
Myrtle Point 50\% Reduction
Powers
 100\% Reduction
The above reduction will apply to the $\$ 80.00$ tuition charge for all students who are enrolled for 12 or more credits/units and whose legal permanent residence is within Southwestern Oregon Area Education District and located the above distances from the campus. All student body fees will still be due in addition to the tuition charge.

## FEE REFUNDS

Students who withdraw from the college or drop courses may be entitled to refunds if they comply with regulations governing withdrawals

1. Any claim for a refund must be made in writing to the business office before the end of the term in which the claim originates.
2. The amount of any refund is calculated from the date the written withdrawal application is received and not from the date the student ceased attending classes. An exception to this rule may be dent ceased if it can be shown that filing of the withdrawal application was delayed for reasons beyond the student's control.
3. The tuition refund schedule:

During the first week of the term ........ $90 \%$ second week of the term ...... $70 \%$ third week of the term .-..-. $50 \%$ fourth week of the term ...- $30 \%$
4. No refunds will be authorized after the second session of special "seminars" or "workshops" scheduled for six weeks or less.
5. Student body fees paid are nonrefundable.
6. The amounts to be refunded apply only to the tuition portion
 of the fees.

## 10 Student $^{\text {Services }}$


INDEXPage
Advising ..... 11
Athletics, Intramural and College ..... 13
Counseling and Testing ..... 11
Financial Aid ..... 12
Foreign Student Advising ..... 11
General Educational Development Examinations 11 ..... 11
Housing for Students ..... 13
Job Placement ..... 13
Scholarships and Loans ..... 12
Study Center ..... 11
Student Activities ..... 13
Student Center ..... 13
Student Conduct and Appeals ..... 13
Student Review ..... 13
Student Tutorial Program ..... 13

## Student Services

## ADVISING

Each new student is assigned to a faculty advisor on the basis of expressed educational and/or vocational interests upon admission. Advising is considered a most important guidance function at the College. Each student is encouraged to use fully the services offered by his advisor.
The ultimate responsibility for course and program choice rests with each student. However, academic advisors can, in large measure, assist a student in securing and interpreting information basic to academic and vocational decision making.

## FOREIGN STUDENT ADVISING

The college is authorized under federal law to enroll nonimmigrant alien students.
The Office of Admissions, in cooperation with the Foreign Student Advisor, determines the eligibility of the foreign students for admission to the college; such decisions are related to the proficiency in the English language which the student has achieved. Since the college does not yet have the facilities to teach "English as a foreign language," we must be assured that the student is in a position to read, write, and speak English. Special assistance in English is available to foreign students on the same basis as to students from the United States.
An advisor to foreign students is available to assist with academic, vocational, or personal problems related to their adjustment to college life in the United States.

## COUNSELING AND TESTING

The Counseling Center offers counseling and testing services to all students and staff. Frequently a student is faced with decision-making regarding selection of an academic major, vocational interest area, or resolution of interpersonal concern. Services are available for educational, vocational, and personal counseling. Students are assisted in determining interests and aptitudes for various occupational areas, identifying possible causes of difficulty in academic courses, improving study skills, determining proper areas of study, and coping with personal and social problems. Professional counselors are available in a confidential setting to discuss any type of problem a student may feel of importance. setting to discuss any type of problem a student may feel of importance.
Group meetings may be arranged for students presenting similar difficulties.

Counselors work closely with faculty advisors and the instructional divisions of the College. Students may be referred by any college faculty member or make their own appointments on a "drop-in" basis.
Counseling is provided to any adult residing within the Southwestern Oregon Area Education District who may wish assistance with questions of educational or occupational development. A close working relationship is maintained with the Oregon Board of Education, Oregon State Employment Service, and Division of Vocational Rehabilitation to assist adults in their educational and vocational planning.
The Student Services Office maintains a library of educational and vocational information. Catalogs from many educational institutions and most western schools and colleges are available for reference. There is no charge for counseling or testing services.

## STUDY CENTER

The Study Center offers a program of individualized instruction and counseling designed to help assure successful achievement in college courses through the improvement of reading, writing, listening, computational and study skills.
Students whose diagnostic tests indicate a need for assistance in these areas will find the opportunity for improvement of skills in the Study Center.
Students who wish to improve upon basic communication and computational skills may enroll in the Study Center which offers an opportunity to work with instructors on an individual basis or in small groups.
The Study Center includes two areas: the Communications Workshop where students can work on improvement of reading, writing, listening, and study skills; and the Math Workshop which provides assistance with and study skills; and the Math workshop which provides assistance

GENERAL EDUCATIONAL DEVELOPMENT EXAMINATIONS (GED)
The Office of Student Services offers GED Examinations for adults who have not graduated from high school and who would like to obtain a Certificate of Equivalency. The staff will explain necessary requirements for taking the examination and can recommend various study materials designed to improve an individual's chances for success on the test. Counseling to assist in further educational and/or vocational development after completing the GED Examination is also available. There is no fee for any of these services.

## Student Services

## FINANCIAL AID

The financial aids program at Southwestern Oregon Community College includes student employment, grants-in-aid, scholarships, and loans.
The administration of scholarship and loan programs is handled by the Southwestern Oregon College Foundation, Inc., a separate nonprofit corporation made up of interested citizens from throughout Coos and Douglas counties. The program is coordinated by the Faculty Scholarship and Loan Committee.
District Scholarships: The College Board of Education has authorized full tuition scholarships for four full-time students (students carrying 15 credits/units or more) from each of the high school districts within the college district. Two of these scholarships per district are awarded on the basis of ability, need and general citizenship. The other two scholarships are awarded to a freshman and second year student from each high school district, based on merit, with equal consideration given to liberal arts and vocational students. In addition, one district scholarship each is authorized for the student body president and the editor of the "Southwester," the student newspaper. Applications for District Scholarships including a transcript of high school grades, must be completed and submitted to the Financial Aid Office no later than April 1.

General Scholarships and Grants-in-Aid: Various organizations and individuals contribute funds to provide students in financial need with tuition scholarships. A limited number of grants-in-aid are awarded to students showing exceptional need for payment of tuition and books. Applications for college scholarships and grants-in-aid are available from the Financial Aid Office or from high school principals and counselors. Music Scholarships
(a) Applied Music Scholarships: Thirty dollar awards to pay the extra tuition fees required each term for all music majors for private music instruction. These scholarships are awarded to qualified music students each term on the basis of ability, interest, and need. Students awarded Applied Music Scholarships are expected to maintain a " B " average in their private music study and participate in a college music-performing group (choir, band, orchestra).
(b) Performance Scholarships: Six dollar (nontransfer) or twelve dollar (transfer) awards to pay tuition fees for participation in one of the college performing groups (choir, band, orchestra) are awarded each term to those musicians able to make a positive contribution to a performing group through active participation.

Student Loans: The Scholarship and Loan Committee administers funds providing for Ioans to eligible students for a period of up to one year. Students enrolled for 12 credits or units are eligible to apply for maximum loans, while any student who is enrolled at Southwestern Oregon Community College is eligible to apply for a minimum loan under a shorter term contract. Loan applications are available at the Financial Aid Office. Contributors to the fund from which these loans are made include:

Mr. Jack Brookins
Mr. John Dellenback
North Bend Business and Professional Women's Club
P.E.O. Sisterhood

Dr. and Mrs. Quinn
SWOCC Women's Club
Coquille Soroptimists Club

## MEMORIAL LOAN FUNDS

## Hazel Hanna Loan Fund

Beauchemin-Swanson Memorial Loan Fund
Linda Koonce Memorial Loan Fund
Rodney Hickenlooper Memorial Loan Fund
Dora Burr Memorial Loan Fund

## SPECIAL LOAN FUNDS

LICENSED PRACTICAL NURSES LOAN FUND
PIONEER PTA LOAN FUND (Reedsport Students)
Southwestern Oregon Community College is a participating institution in the following programs of federal assistance in financing a college education authorized under the National Defense Education Act of 1958, The Economic Opportunity Act of 1964 and the Higher Education Act of 1965 :
National Defense Student Loans: A program of borrowing primarily for needy students, in which the student has an obligation to repay his loan, with 3 percent interest within a 10 -year period following college attendance.

## Guaranteed Loans:

A program of borrowing through the bank of the student's choice. This loan is primarily for students from middle or upper income families. The student has an obligation to repay his loan with a 7 percent interest.

Educational Opportunity Grants: A program of direct grants in which the student receives a nonobligating award of funds, based on exceptional financial need and evidence of academic or creative promise.
College Work-Study: A program of employment in which the student, primarily one from a low-income family, is compensated for the number of hours he works for the institution or for an eligible off-campus agency. Additional information about these programs may be obtained from the Financial Aid Office.
Student Employment: A limited number of on-campus jobs are available to students at SWOCC. Information about off-campus jobs and applications for employment may be obtained from the Financial Aid Office.

## JOB PLACEMENT

Assistance in job placement is given to graduates of Southwestern Oregon Community College. Placement interviews are arranged through the Office of Student Services with businesses, industries, and governmental agencies.

## STUDENT HOUSING

The College does not provide campus housing for students. The Office of Student Services maintains a list of living accommodations available to students. The College assumes no responsibility in negotiating housing agreements between students and rentors. Responsibility for securing adequate living arrangements rests with the student and/or his parents. STUDENT CENTER
The Student Center is temporarily located in the Learning Resource Center. The Center houses the Student Government and Student Activities Office, and some food service. The Center is open throughout the day and evening hours for browsing, student-faculty visiting, studying, and snacks.

## STUDENT ACTIVITIES

The student activities program is planned to serve all students of the college. Student Government offices are located in the Student Center. Student publications include the campus newspaper, The Southwester and the campus magazine and Student Handbook. The ASG constitution contains the rules and regulations under which the student government tains the
The following clubs and organizations have been established on the campus at Southwestern Oregon Community College: Fine Arts Club Pep Band

Young Republicans
Young Democrats
Circle K
Lettermen's Club
Phi Beta Lambda

## INTRAMURALS AND ATHLETICS

An intramural program is provided for all students in college. This program includes regular schedules or tournaments in most activities Students have the opportunity to participate in sports activities which are planned so that the student may become better acquainted with games which may be used in adult life and provide enjoyment and worthy use of leisure time.
Southwestern Oregon Community College is a member of the National Junior College Athletic Association and the Oregon Community College Ath letic Association. Competition in various major and minor sports is arranged with other colleges of the Oregon Association and with junior varsity and freshman teams from four-year institutions.
Athletic activities at the college include basketball, track, cross country, wrestling, baseball, golf and tennis

## STUDENT TUTORIAL PROGRAM

The Tutorial Program is designed for those interested in helping others in an educational setting. Tutors usually volunteer for a few hours a week in area schools, or occasionally on campus, functioning on a one-to-one (or very small group) basis. The primary focus is on helping students who are having difficulty in school, usually in specific subject areas. The program is open to anyone interested in tutoring

## STUDENT CONDUCT AND APPEALS

The college assumes that students in attendance will conduct themselves according to acceptable standards and will abide by policies and procedures established for all students. Students unwilling to comply with these codes may be suspended or expelled.
A student who receives disciplinary action may appeal to the student affairs committee if he wishes.

## STUDENT REVIEWS

Under unusual circumstances, current academic requirements may be re viewed by the college at the request of individual students. Requests for such reviews originate with the student who must fill out and file a petition form obtainable from the Admissions Office.



INDEXPage
Adult Basic Education ..... 21
Advisory Committees ..... 16
Agriculture ..... 17
Aviation ..... 24
Business ..... 17
College Transfer Credit ..... 16
Construction Trades ..... 18
Continuing Education Program ..... 21
Degrees, Diplomas and Certificates ..... 16
Electrical-Electronics ..... 18
Entrance Requirements ..... 16
General Adult Education ..... 21
General Information ..... 16
Home Economics ..... 18
Law Enforcement ..... 18
Metals-Mechanical ..... 19
Occupational Extension Classes ..... 20
Apprenticeship Classes ..... 20
Business ..... 20
Distributive and Sales ..... 20
Home and Family Life ..... 20
Industrial and Technical ..... 20
Management and Supervisory ..... 20
Public and Protective ..... 21
Part-Time and Special Programs ..... 20
Practical Nursing ..... 19
Supervisory Training ..... 19
Wood Industries ..... 20

## Technical-Vocational, Adult and General Education

## TECHNICAL-VOCATIONAL,

## adult and general education programs

The courses and curricula offered at Southwestern Oregon Community College have a wide variety of objectives. They are designed to serve a diversified group of individuals through the following types of programs:

1. Occupational Preparatory Program. These curricula and courses are designed to prepare students for successful entrance into employment. They include preparation for semiprofessional, technical, skilled, semiskilled and service occupations in general industry categories such as agriculture, business and commerce, sales and distribution, manufacturing and construction. Curricula are designed to provide an optimum balance between specialized and general education requirements for each occupational area included.
2. Occupational Extension Program. These curricula and courses are designed to upgrade the skills and knowledge of employed workers, or persons who are temporarily unemployed, in a variety of subject-matter, occupational or industrial areas. These courses are developed to provide a continuing education program for the employed worker so that he may keep up to date and adjust to the changing skill and knowledge requirements which are demanded in a complex and dynamic industrial society.
Most occupations and industries may be included in the occupational extension program. Some of the areas include: agriculture, business and commerce, sales and distribution, homemaking, industrial and service occupations, technical and semiprofessional occupations, and supervisory and management training.
3. General Education Program. The general education program of the College provides courses for preparatory, extension and special students. Courses are designed to aid the student in attaining an optimum degree of self-development and assist him in making the maximum contribution as an informed and intelligent citizen in a democratic society. Areas included in the general educational program are: communications and language arts, social and behavorial sciences, science and mathematics, and the humanities and fine arts.
4. Adult Education Program. The adult education program of the College provides a wide variety of general and special courses (because
of their special and changing nature many are not listed in the catalog.) Almost any type of course or program may be organized by the College provided there is a need and the staff and other resources are available. The primary purpose of the adult education program is to assist adults to deal effectively with the ideas, concepts and areas of knowledge which will enable them to better cope with and areas of knowledge which will en
their social and physical environment.
5. Community Service Program. The community service program provides a wide variety of services and activities including: lectures and forums, concerts, film series, special seminars and convocations speakers bureau and others. Many groups and individuals within the college district cooperate with the College in the development and operation of the community service program.

## ENTRANCE REQUIREMENTS

The general College entrance requirements apply to all programs in the division (see page 15). Certain curricula and courses have specific entrance requirements. Students are advised to read carefully specific curricula and course requirements.

## DEGREES, DIPLOMAS AND CERTIFICATES

The Associate in Science Degree is offered for certain two-year technicalvocational curricula in the College. Other programs of study provide for diplomas or certificates (see individual curricula and programs for detailed requirements).

The associate degree is provided for programs requiring the equivalent of two years (six terms) of full-time study - minimum of 90 term units. The diploma is provided for programs requiring the equivalent of one year (three terms) of full-time study - minimum of 45 term units. The certificate, when authorized, generally requires the equivalent of one term of full-time study - minimum of 15 term units.

## COLLEGE TRANSFER CREDIT

Applicants must clearly understand that term units of credit in technicalvocational, adult and general education courses provided in the division may not be transferable to other institutions of higher education.

## ADVISORY COMMITTEES

The curricula and courses of the technical-vocational division of the College are planned and operated with the advice and counsel of repre-

## Technical-Vocational, Adult and General Education

sentative advisory committees. These committees, composed of lacal employers, employees and interested government representatives, meet periodically to plan, evaluate and develop courses and curricula for the College. Their services are invaluable and go far in assuring that programs are realistic, practical and up to date. They also assure a continuing community interest and commitment to our community college, its students and its programs.

## DEPARTMENTS AND CURRICULA

The following general programs and curricula are provided in the pro gram of studies of the College (see pages 45 to 59 for individual course descriptions).

## AGRICULTURE

Although there are no specific programs or curricula planned in the field of agriculture, many of the individual course offerings of the College apply to this important field. Selected preparatory and extension courses, as well as most of the general education courses, apply directly to agriculture and the field currently known as agribusiness.
Courses in business, metals and mechanics, the engineering technologies and wood industries technology are related to agriculture. Additionally, special courses in many agricultural fields may be planned and operated by the College upon request; e.g., livestock, feeds and feeding, soils, farm management and accounting, and so forth.

## BUSINESS DEPARTMENT

The business department offers a wide variety of occupational preparatory and occupational extension courses. They include office and clerical occupations, bookkeeping and accounting, business data processing, sales and merchandising, and business management. A special feature of certain business department programs includes provision for work experience credit during the second year of Business Technology and Secretarial Technology.

## Business Technology

The associate degree program in business technology is designed to prepare persons for employment in a variety of business and sales establishments. During the second year of the program, the student may choose to take part of his program in paid and supervised work experience or complete the requirements in regular college classes. Students may
prepare for specialization in various types of department or specialty stores, other retail and wholesale sales establishments, real estate, insurance, accounting, data processing and other business or sales areas. The program is extremely flexible allowing a wide variety of specialization through the work experience phase of the program.
Basic course work required in the program includes mathematics, English, social science, salesmanship, business law, office procedures, marketing, retailing and accounting.
Additional information including detailed course requirements may be obtained from the College.

Secretarial Technology
This associate degree program is designed to prepare persons for various clerical and stenographic positions. The first year program requires work in mathematics, English, typing, shorthand, office procedures, office machines and social science.
During the second year, the student may elect to take full-time course work on campus or pursue a half-time supervised work experience program for credit. Specialization in the work experience program may be in many fields including legal, medical, insurance, real estate and similar fields. Second year courses include advanced typing, transcription, business communications and business law.

Additional information regarding the Secretarial Technology program including detailed course requirements may be obtained from the College

## Data Processing Technology

This associate degree program is designed to prepare persons for various positions in the data processing and computer technology fields. The firs year program requires work in mathematics, English, accounting, computer operations, and electric accounting machines.
During the second year, the student specializes in programming and data processing systems and procedures. Other second year courses include statistics, cost accounting and general education electives.

## Certificate Programs

The business department also offers three one-year certificate programs The Bookkeeping-Clerical certificate program requires three terms of course work totaling a minimum of 45 term units. Course requirements include

## Technical-Vocational, Adult and General Education

English, mathematics, accounting, typing, office procedures and office machines. Persons completing the program are qualified for entry-level jobs in bookkeeping or clerical work including clerk-typist and receptionist. The Stenography certificate program also requires three terms and a minimum of 45 units of course work. Persons completing are qualified for entry-level stenography positions. Course requirements include typing, entry-level stenography positions. Enourse requirements incluad typing, office machines. The Data Processing certificate program requires three office machines. The Data Processing certificate program requires three
terms and a minimum of 45 units of course work. Persons completing terms and a minimum of 45 units of course work. Persons completing
are qualified for entry-level tab machine operators, computer operators, are qualified for entry-level tab machine operators, computer operators, Peripheral Equipment operators, Coder and Programmer trainee. Course requirements include mathematics, English, accounting, computer operation, and electric accounting machines.
Additional information regarding these programs may be obtained from the College.

## CONSTRUCTION TRADES

There are many individual courses offered by the College which will prepare persons for entry-level jobs or apprenticeships in this industry. Courses in mathematics, drafting, electricity, mechanics, metals, applied physics, and surveying can provide important skills and knowledge for persons who wish to enter an apprenticeship in any of the following occupations: carpenter, cabinetmaker, plumber, metalworker, roofer, painter, electrician, bricklayer, tile setter, and many others.

The College also offers related instruction classes for registered apprentices in the building and construction trades. Special classes may also be organized and operated for journeymen and other employed workers in the construction industry.

## ELECTRICAL-ELECTRONICS DEPARTMENT

The electrical-electronics department offers programs and courses for full and part-time students-for persons preparing for employment in electrical and electronic occupations and others who are already employed in these occupations. There is no area where knowledge and technology is advancing more rapidly than in the wide variety of occupations and industries covered in electricity and electronics.

## Electrical-Electronic Technology

This two-year associate degree program is designed to prepare persons for a number of skilled and technical occupations in the electrical and
electronic fields. The student may prepare for apprenticeships in the inside wiring (electrician) field, electrical maintenance, radio-televisionappliance servicing, radio-telephone-telegraphic communications, or elec trical and electronics work in many industries including aero-space nucleonics and many others.

The program is designed around basic principles, theory and laboratory work in electricity and electronics. Related courses in the curriculum include technical mathematics, applied physics, English, social science drafting and engineering problems. Completion of high school algebra is essential and science courses, particularly physics, are recommended is essential and science courses, particularly physics, are recommended.
Detailed curricular and course information is available from the College Detailed curricul.

## Special Programs and Courses

The department also offers other special programs and courses for individuals and industries in the area served by the College. Related classes for registered electrical apprentices in the maintenance and con struction fields are a regular part of the program of studies. Special courses for other employed workers are also planned and operated as needed. A knowledge and understanding of electricity and electronics is now required in many occupations and industries-the College does its best to fulfill these needs as they arise. Persons interested in such courses should contact the College for information.

## HOME ECONOMICS DEPARTMENT

The home economics department offers courses in clothing selection and construction (Bishop Method, home planning and decoration, foods and nutrition, child care, family living, home management, and consumer education. Regular courses are listed under the $0.920-0.972$ and 7.100 series and 9.900 number series in the "Course Description" section of the catalog. Persons interested in organizing special courses or programs in home and family living areas, or in occupational areas related to home. making, should contact the College.

## LAW ENFORCEMENT (Police Science)

The curriculum in Law Enforcement prepares young men and women for careers in law enforcement agencies such as police departments and sheriffs' offices. This two-year associate degree program is planned and operated with the cooperation of the Peace Officers Committee of Region III (Lane, Douglas, Coos and Curry Counties) and the State Advisory

## Technical-Vocational, Adult and General Education

Board on Police Standards and Training. It also provides opportunities for persons already employed in law enforcement to obtain further training for added skills and knowledge or retraining which will help them qualify for promotions.
In addition to selected general education courses, the program of studies covers basic police science, knowledge, skills and techniques. Courses include: introduction to law enforcement, administration of justice, criminal law, investigation, evidence, firearms and defensive tactics. Detailed information and program requirements are available from the tailed in

## METAL - MECHANICAL DEPARTMENT

The metal-mechanical department offers a two-year associate degree curriculum in Industrial Mechanics as well as other special programs and courses. Its courses are intended for persons preparing for initia employment in metals or mechanical occupations and for employed workers who wish to upgrade their job skills and knowledge. Instruction areas in the department include machine shop, sheetmetal, metallurgy and heat treating, welding, power plants, power transmission, general mechanics, pneumatics and hydraulics.

## Industrial Mechanics

The general two-year associate degree program in industrial mechanics is designed to lead to entry-level jobs in a number of occupations and industries. It prepares persons for occupations such as automotive mechanic, truck or heavy duty equipment mechanic, small engine mechanic and maintenance mechanic in construction, manufacturing and servicetype industries. It also provides excellent background and entry-level skills for occupations such as machinist, sheet metal worker, millwright and industrial or mechanical technician.
The course requirements in this program include practical mathematics and physics, communications, social science and drafting. Major area courses include welding, metallurgy, metal and machine work, hydraulics and pneumaties, gasoline engines and other power plants, chassis and brake systems, power transmission systems, fuel systems and carburetion, and electrical systems. High school courses in drafting, mathematics and physical science are recommended.

Specific curricular requirements and additional information regarding the program are available upon request.

## Part-Time Programs and Courses

Students may enroll in the industrial mechanics curriculum on a parttime basis if they wish. The College also offers an extensive gas, arc and heliarc welding program for employed workers who need knowledge and skill in the field. A number of evening courses in automotive carburetion, electricity and tune-up are also available for employed mechanics. Many other courses such as blueprint reading, machine maintenance and erection, industrial materials and processes, heating and air conditioning are also available. Additional information may be secured from the College.
The College also offers related instruction classes for apprentices in metalworking and mechanical occupations.

## PRACTICAL NURSING

This 4 quarter program of training is open to persons between 18 and 50 years of age who are high school graduates or the equivalent. (A GED test and certificate is acceptable.) The program is accredited by examination State Board of Nursing. Graduates are eligible to this examination become licensed practical nurses (LPN) and are eligible for licensing by endorsement in other states of the nation. A licensed practical nurse is prepared to give nursing care to patients who do not need the constant attention of a professional nurse. The class instruction and hospital clinical experience are under the direct supervision of the college instructor and registered nurses of the hospital. The licensed practical nurse is also under the direct supervision of professional registered nurses or licensed physicians.

## Graduation Requirements:

Candidates for graduation from the Practical Nursing curriculum shall have developed the personal and professional characteristics which, in the opinion of the college officials, will enable them to function effectively in the role of a practical nurse.
Applications for admission to Practical Nurse Training must be filed by April 15.

## SUPERVISORY TRAINING

This program is planned as a series of courses and supervisory methods, theory and practices. The courses are available to individuals who are currently involved in supervisory duties or to persons who aspire to supervisory positions.

## Technical-Vocational, Adult and General Education

An interested individual may elect to follow one of three planned pro grams, depending upon his ultimate needs, culminating in a certificate a diploma or an Associate Degree. Instructors for these courses are selected from industry on the basis of experience and special competence in the course to be taught. Persons interested in these programs may obtain additional information from the College.

## WOOD INDUSTRIES TECHNOLOGY

This two-year associate degree curriculum prepares technical or semiprofessional employees for the lumber, wood products and forestry industries. Graduates may work for private industry in woods or mill operations or for various government agencies at state and national levels. Types of work include forest and logging engineering, forest development and conservation, road building, surveying and mapping fire protection and control, cruising, scaling and many areas of technical work in lumber, plywood and pulp mills.
Courses required in the curriculum include general forestry, technical physics and chemistry, technical mathematics, forest botany, English, social science, forest operations and engineering, mensuration, surveying and mapping. Detailed information and curriculum requirements are available from the College.

## PART-TIME AND SPECLAL PROGRAMS

The College offers a number of special programs and services which were outlined earlier in this section of the catalog. Any type of technical occupational, adult or general education program or course may be offered to meet specific community needs if it falls within the resources of the College. The community college is a local community service institution designed by and for the people it serves.

## OCCUPATIONAL EXTENSION CLASSES

The occupational extension classes provided by the College cover a large number of occupational and industrial areas. They also include special subject-matter courses which are oriented toward certain occupationa groups. Persons interested in the development of such courses should contact the College for further information.

## Apprenticeship Classes

Oregon State law requires all registered apprentices to attend related instruction classes for 144 hours each year of their apprenticeship. The College operates these classes for the Southwestern Oregon area
in cooperation with local apprenticeship committees. At the present time, classes are operated for carpenters, plumbers, inside wiring elecricians, maintenance electricians and power linemen. Enrollment in these courses is restricted to registered apprentices.

## Business Classes

Part-time extension classes in business are offered during day and evening hours. They are intended to upgrade the job skills and knowledge of persons employed in various business occupations. Courses in accounting, shorthand, typing, business data processing, business machines, small business records and management, and business law are available. Many other courses in the business field may be organized if there is a need for them.
Distributive and Sales Classes
Closely related to the business field is the area of sales and distribution so important to our economy. Classes for employed persons in marketing, advertising, salesmanship, merchandising and related topics are available.

## Home and Family Life Education

Many homemakers, men and women, find it advantageous to take courses to assist them to better perform their roles as homemakers. Courses in this area include several in clothing selection and construction, foods and nutrition, home planning and decorating, home management, and family livirig including child care. Additional information regarding these classes may be obtained from the College.

## Industrial and Technical Education

The variety of courses offered by the College in this area is limited only by the number of industrial and technical occupations in our many faceted industrial economy. Specific courses for many occupational groups and general courses covering skills and knowledge common to many occupations are possible. Electricity, electronics, mechanics, metalworking, welding, blueprint reading, drafting and applied mathematics are only a few of the possible areas included.

## Management and Supervisory Development

The College offers two separate programs in this field. The first, Supervisory Training, is explained elsewhere in the catalog (see page 41) The College has also operated special classes for high school students
in the area served by the college district. Students from Marshfield, North Bend, Reedsport, Bandon, Powers, Coquille and Myrtle Point High Schools have attended special vocational classes during the past year. The College also operates some evening classes in the Coquille, Myrtle Point and Reedsport areas for persons who reside there.
It is intended for practicing supervisors in business and industry or for persons who aspire to those positions. The management development program is intended primarily for small business owners and managers. Some of the courses are operated in cooperation with the U.S. Small Business Administration, particularly the Small Business Management Seminar usually operated during the fall term. Other courses include small business management and small business records.

## Public and Protective Services

The service occupations are the most rapidly growing segment of our occupational structure. Two programs in this field are provided by the College at the present time - Law Enforcement (see page 40) and a program in Fire Training offered in cooperation with fire departments in the area. Other public service courses, such as custodial training, are planned and operated by the College as the need for them arises.

## GENERAL ADULT EDUCATION

The general adult education program of the College actually covers all areas of the curriculum. College transfer courses and other nontransfer adult courses are available in English and literature, the social and behavioral sciences, science and mathematics and the arts. During the past year, the College has expanded its offerings in art and music with considerable community interest and support. Adults may participate in the College orchestra, band and chorus as well as drawing, painting and ceramics courses.
Persons interested in course offerings in this program should contact the College for additional information.

## CONTINUING EDUCATION PROGRAM

The College provides facilities to operate upper division and graduate level courses offered by the Division of Continuing Education, Oregon State System of Higher Education. Many of these courses are intended for teachers in the Southwestern Oregon area; however, other qualified persons may attend them. Persons interested in the continuing education program should contact the College for additional information.

## ADULT BASIC EDUCATION

To provide for adults who have never had the opportunity to complete their elementary school education, the College offers classes in adult basic education. These classes are designed to promote in individuals the development and growth of the basic skills of reading, writing, English, expression, vocabulary, spelling, and arithmetic. The classes are conducted by using tutorial assistance, small group learning, self-learning, and machine learning. Some students use this training to prepare for the General Educational Development (G.E.D.) examination.
Additional information regarding these programs may be obtained from the College.


## 22

## Technical. Vocational Programs



INDEX Page
Aviation ..... 24
Bookkeeping-Clerical ..... 26
Business, Associate Degree ..... 25
Business Technology ..... 26
Data Processing-Computer Technology ..... 27
Electronics Engineering Technology ..... 28
Industrial Mechanies ..... 25
Industrial Supervisory Training ..... 29
Law Enforcement ..... 29
Practical Nursing ..... 29
Secretarial-Stenography ..... 30
Wood Industries Technology ..... 31

## Technical-Vocational Programs

## AVIATION

## Professional Pilot

Any Related Sequence in Mathematic
Any Related Sequence in Humanities or Social Science
6.550
6.560 Air Navigan
6.570 Aerodynamics
6.574 Flight Familiarization I
6.575 Flight Familiarization II

Sequence in Communications
Instrument Flight I
6.573 Instrument Flight I
6.571 Aeronautics and Meteorology
6.576 Flight Training I

Related Sequence in Physics
I. C. Engines I
I. C. Engines II

Electrical I or
Fuel Systems or
Hydraulics-Pneumatics
Flight Training II
Flight Training II
Flight Training IV
Transportation I

## Management

Any Related Sequence in Mathematics
Any Related Sequence in Humanities or Social Science
Introduction to Aviation
Air Navigation
6.570 Aerodynamics
6.574 Flight Familiarization I
6.575 Flight Familiarization II

Sequence in Communications
Instrument Flight I
Instrument Flight II
Business Law I
2.320 Business Law I
2.322 Business Law III

Sequence in Accounting

12 Units
9 Units
2 Units
2 Units
${ }_{3}$ Units
1 Unit
1 Unit
1 Unit
3 Units
3 Units
3 Units
2 Units
12 Units
12 Units
3 Unit

3-4 Units
2 Units
2 Units
2 Units
3 Units

12 Units
9 Units
2 Units
2 Units
3 Units
1 Unit
1 Unit
9 Units
3 Units
3 Units
3 Units
3 Units
Units
9 Units

571 Aeronautics and Meteorology 3 Units
304 Fundamentals of Martreting
2.380 Principles of Finance 3 Units

## Data Processing

Any Related Sequence in Mathematics
Any Related Sequence in Humanities or Social Science 9 Units
6.550 Introduction to Aviation

9 Units
2 Units
. 570 Air Navigation
3 Units
6.570 Aerodynamics

1 Unit
6.574 Flight Familiarization I

Sequence in
equence in Communications
9 Units
6.572 Instrument Flight I

3 Units
6.573 Instrument Flight II
2.600 Transportation I
6.900 Data Processing Fundamentals 3 Units
6.901 Introduction to Computers 3 Units
6.903 Introduction to Programming 3 Units

Sequence in Accounting
3 Units
9 Units
6.571 Aeronautics and Meteorology $\quad 3$ Units
$\begin{array}{lll}6.905 & \text { Intermediate Programming } & 3 \text { Units } \\ \text { 6.902 } & \text { Introduction to Systems and Procedures } & 3 \text { Units }\end{array}$
6.909 Electronic Computer Operators 3 Units

## Secretarial Science

Any Related Sequence in Mathematics
12 Units
Any Related Sequence in Humanities or Social Science $\quad 9$ Units
6.550 Introduction to Aviation 2 Units
6.560 Air Navigation 2 Units
6.570 Aerodynamics 3 Units
6.574 Flight Familiarization I 1 Unit
6.575 Flight Familiarization II Sequence in Communications
6.572 Instrument Flight I 3 Units
6.573 Instrument Flight II 3 Units

Typing Sequence
Shorthand Sequence
Sequence in Accounting
6.571 Aeronautics and Meteorology

6 Units
6 Units
9 Units
3 Units

Technical-Vocational Programs

| 2.600 Transportation I | 3 Units | 3.324 | Diagnostic Procedures |  |  | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.600 Office Procedures Sequence | 9 Units | 3.326 | Automatic Transmissions |  |  | 4 |
| 2.519 Office Machines | 2 Units | 3.332 | Service Management |  |  | 2 |
| WR 214 Business English | 3 Units |  | Electives | 3 18 | 3 15 | 3 15 |

## INDUSTRIAL MECHANICS

Industrial Mechanics is a two-year course preparing students for automotive and metal-working fields. Students are prepared for entry-level jobs as service station attendants, mechanics, and welders; other employjobs as service station attendants, mechanics, include metallurgical lab ment opportunities (after on the-job training) include metallurgical lab assistant, and apprenticeship in machinist trades, hydraulics, sheetmeal,
and welding. Completion of the program leads to the Associate in Science degree.
Course work includes math, physics, internal combustion engines, mechanical systems, fuel systems, and welding.

| First Year |  | F | W | S |
| :---: | :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications | 3 | 3 | 3 |
| $4.300,4.302,4.304$ | Practical Physics | 4 | 4 | 4 |
| 3.304, 3.306 | Internal Combusion Engines I, II | 3 | 2 |  |
| 4.202, 4.204 | Mathematics | 4 | 4 |  |
| 4.110 | Blueprint Reading and Sketching | 3 |  |  |
| 3.320 | Hydraulics - Pneumatics |  |  | 3 |
| 3.300 | Suspension Brake System |  |  | 3 |
| 4.150 | Welding I |  |  | 2 |
| 4.160 | Metals Technology |  |  | 3 |
| 4.170 | Machine Tool Practices Electives | 3 | 3 | 2 |
|  |  | 20 | 16 | 23 |
| Second Year |  | F | W | S |
| 3.329, 3.331, 3.333 | Mechanical Systems | 3 | 3 | 3 |
| 3.308, 3.322 | Electrical I, II | 4 | 4 |  |
| 3.310 | Fuel Systems | 3 |  |  |
| 3.318 | Steering Controls | 3 |  |  |
| 4.151 | Welding II | 2 |  |  |
| 3.314 | Power Accessories |  | 3 |  |
| 3.316 | Power Trains |  | 2 |  |

## ASSOCLATE IN SCIENCE IN BUSINESS

A two-year program designed for the student who desires to combine a basic business background with some related occupational competency. The student may choose from the several core options. He then may choose from a wide selection of business and nonbusiness courses.
Students will prepare themselves for any area for which they have special interest. Some examples are business operation of wood industries, industrial mechanics, and recreational industries.
Courses include basic core subjects such as language arts, mathematics, human relations, and accounting.

## Requirements Are:

I. A minimum of 30 units of core subjects including one sequence.

## Sequence courses

Language Arts
Typing
Accounting
Social Studies
Data Processing
Office Procedures

## Nonsequence courses <br> Mathematics/Machines <br> Introduction to Business

II. At least 30 units in business related courses.
III. Ninety units including 18 units of general education.
IV. General requirements for Associate in Science Degree.

## BOOKKEEPING • CLERICAL

Bookkeeping - Clerical is a one-year program designed to prepare persons for a variety of bookkeeping or clerical positions. A certificate of completion is offered when course requirements are met.

Course work prepares students for such positions as bookkeeping machine operator, file clerk, typist, records clerk, and bank clerk.

Course work includes typing, accounting, office procedures, and office machines.
First Year $\quad \mathbf{F} \quad \mathbf{W} \quad \mathbf{S}$
1.111, 1.112, 1.113 Communications or

Wr 111, 112, 113 English Composition Office Procedures
Typing according to placement ${ }^{1}$
2.250, 2.252
2.766, 2.767
2.519, 2.521
1.121, 1.122
2.771

## Accounting

Office Machines I, $\mathrm{II}^{2}$
Man and Society
Payroll Accounting
TOTAL: 51-53 units/credits

1 See Typing - Shorthand Placement page.
2 Student may choose 2.521 or 6.900 Data Processing Fundamentals or BA 131 Intro to Business Data Processing.

## BUSINESS TECHNOLOGY (Accounting Major)

Business Technology, with an accounting major, is a two-year program preparing students for business positions involving accounting. Com pletion of the program leads to the Associate in Science degree.
Students are prepared for entry positions as junior accountants and also will have the accounting background necessary for midmanagement positions in business.
Course work includes office machines, accounting, business law, credit procedures, federal income tax, and introduction to data processing. Work experience is an option.

First Year


1 Students may choose 2.583 , or 2.584 , or 2.585 Office Procedures.
2 Students may choose 2.521 or second term Typing.
3 Qualified students may take 2.503/SS 122 Typing-See Typing-Short hand Placement page.

## BUSINESS TECHNOLOGY (Distribution Major)

Business Technology, with a distribution major, is a two-year program preparing students for business positions involving distribution or marketing. Completion of the program leads to the Associate in Science degree. Students are prepared for entry positions in retailing, wholesaling, specialty selling, and midmanagement.

## Technical-Vocational Programs

Course work includes office machines, accounting, marketing, salesmanship, advertising, business law, and credit procedures. Work experience is an option.

| First Year |  | F | W | S |
| :---: | :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications |  |  |  |
|  | Wr 111, 112, 113 English Composition | 3 | 3 | 3 |
| 1.120, 1.121, 1.122 | Man and Society | 3 | 3 | 3 |
| 2.250, 2.252 | Business Mathematics | 3 | 3 |  |
| 2.330 | Fundamentals of Salesmanship | 3 |  |  |
| 2.583 | Office Procedures | 3 |  |  |
| 2.304 | Fundamentals of Marketing |  | 3 |  |
| 2.301 | Credit Procedures |  | 3 |  |
| 2.305 | Principles of Retailing |  |  | 3 |
| 2.307 | Advertising |  |  | 3 |
| 2.519 | Office Machines ${ }^{1}$ |  |  | 2 |
| 2.501 | Typing $\mathrm{I}^{2}$ |  |  | 2 |
|  | Physical Education | 1. | 1 | 1 |
|  |  | 16 | 16 | 17 |
| Second Year |  | F | W | S |
| 2.320, 2.321, 2.322 | Business Law | 3 | 3 | 3 |
| 2.766, 2.767 | Accounting | 4 | 4 |  |
| Wr 214 | Business English |  | 3 |  |
| BA 101 | Intro to Business |  |  | 4 |
|  | Electives | ${ }^{9}$ | ${ }^{6}$ | 8 |
|  | TOTAL: 96 units/credits | 16 | 16 | 15 |

1 May be taken any term.
2 Required unless student has had typing-See Typing-Shorthand Placement page.

## BUSINESS TECHNOLOGY (Office Management Major)

Business Technology, with an office management major, is a two-year program preparing students for office positions. Completion of the program leads to the Associate in Science degree.

Students are prepared for entry positions in offices; experience can lead to promotion as office managers.

Course work includes office machines, accounting, business law, credit procedures, and introduction to data processing. Work experience is an option.

| First Year |  | F | W | S |
| :---: | :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications or |  |  |  |
|  | Wr 111, 112, 113 English Composition | 3 | 3 | 3 |
| 2.583, 2.584, 2.585 | Office Procedures | 3 | 3 | 3 |
| 2.766, 2.767, 2.768 | Accounting or BA 211, 212, 213 |  |  |  |
|  | Principles of Accounting | 3.4 | 3-4 | 3-4 |
| 2.250, 2.252 | Business Mathematics | 3 | 3 |  |
| 2.501, 2.503 | Typing I1, II or SS 121, 122 Typing | 2 | 2 |  |
| 2.519, 2.521 | Office Machines |  | 2 | 2 |
| 6.900 | Data Processing Fundamentals or Intro to Business Data Processing Physical Education |  |  | 3 |
|  |  | 15-16 |  | 15-16 |
| Second Year |  | F | W | S |
| 2.320, 2.321, 2.322 | Business Law | 3 | $3 \cdot$ | 3 |
| 1.120, 1.121, 1.122 | Man and Society | 3 | 3 | 3 |
| BA 101 | Intro to Business | 4 |  |  |
| 2.301 | Credit Procedures | 3 |  |  |
| 2.304 | Fundamentals of Marketing |  | 3 |  |
| Wr 214 | Business English |  | 3 |  |
| 6.901 | Intro to Digital Computers |  | 3 |  |
| 2.771 | Payroll Accounting |  |  | 3 |
|  | Electives | 4 |  | 6 |

1 Qualified students may take 2.503 or SS 122-See Typing-Shorthand Placement page.

## DATA PROCESSING.COMPUTER TECHNOLOGY

Data Processing-Computer Technology is a two-year program designed to prepare students for employment in the data processing field. Completion prepare students for employment in the data processing

## Technical-Vocational Programs

Students are prepared for jobs as data processing operators and programmers in government and industry. Graduates may find initial employment as console operators, programmers, and junior systems analysts.

| First Year |  | F | W | S |
| :---: | :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications or |  |  |  |
|  | Wr 111, 112, 113 English Composition | 3 | 3 | 3 |
| 2.766 | Accounting or BA 211, 212, 213 |  |  |  |
|  | Principles of Accounting |  | 4 |  |
| 2.771 | Payroll Accounting |  |  | 3 |
| 4.202, 4.204 | Mathematics or Mth 101, 102 <br> College Algebra and Trigonometry | 4 | 4 |  |
| 6.900 | Data Processing Fundamentals or BA 131 |  |  |  |
|  | Intro to Business Data Processing | 3 |  |  |
| 6.913 | Intro to Electric Accounting Machines | 4 |  |  |
| 6.901 | Intro to Digital Computers |  | 3 |  |
| HE 250 | Personal Health |  |  | 3 |
| 6.916 | Math for Data Processing or Mth 200 Calculus |  |  | 3 |
| 6.903 | Intro to Programming or Mth 233 |  |  |  |
|  | Intro to Numerical Computation |  |  | 3-4 |
| 6.909 | Computer Operations |  | 3 |  |
|  |  | 14 | 17 | 16 |
| Second Year |  | F | W | S |
| 1.120, 1.121, 1.122 | Man and Society or |  |  |  |
|  | Social Science Alternate | 3 | 3 | 3 |
| 2.769 | Cost Accounting | 3 |  |  |
| 6.905 | Intermediate Programming | 3 |  |  |
| 6.912 | Business Statistics or <br> BA 232 Business Statistics | 3 |  |  |
| 6.911 | Computer Applications |  | 4 |  |
| 6.902 | Systems and Procedures I |  | 3 |  |
| 6.907 | Advanced Programming |  | 3 |  |
| 6.904 | Systems and Procedures II |  |  | 3 |
| 6.906 | Data Processing Management |  |  | 3 |
| 6.908 | Special Problems in Data Processing |  |  | 2 |
|  | Electives | $3$ | $3$ | 3 |

## ELECTRONICS ENGINEERING TECHNOLOGY

Electronics Engineering Technology is a two-year program designed to prepare students for employment in the electronics field. Completion of the program leads to the Associate in Science degree.

Students are prepared for jobs as electrical and electronic technicians in research, manufacturing, and maintenance. The technicians can enter the consumer repair industry in television, radio, and electrical appliances and in electronic and communications equipment.
Courses include mathematics, physics, and general education as well as those with technical content in electricity and electronics.

| First Year |  | F | W | S |
| :---: | :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications | 3 | 3 | 3 |
| $6.261,6.262,6.266$ | Technical Mathematics | 4 | 4 | 4 |
| 6.370, 6.371 | Applied Physics | 4 | 4 |  |
| 6.135, 6.136 | Engineering Problems | 1 | 1 |  |
| 4.101, 4.103 | Drafting, Electrical Drafting | 2 | 2 |  |
| 6.200, 6.202 | Electrical Theory DC, AC | 4 | 4 |  |
| 6.127 | Practical Descriptive Geometry |  |  | 2 |
| 6.204 | Electrical Circuits |  |  | 5 |
| 6.210 | Vacuum Tube and Transister Analysis |  |  | 4 |
|  |  | 18 | 18 | 18 |
| Second Year |  | F | W | S |
| 6.115 | Electrical Mathematics | 4 |  |  |
| 6.212 | Oscillator Circuits and Design | 4 |  |  |
| 6.236 | Servo Systems | 2 |  |  |
| 6.234 | Wave Generator and Shaping | 3 |  |  |
| 6.218, 6.246 | Industrial Electronics |  | 3 | 4 |
| $6.228,6.235$ | Industrial Television |  | 3 | 1 |
| 6.214 | Amplifier Circuits and Design |  | 5 |  |
| 6.240 | Electronic Data Processing |  | 3 |  |
| 6.216 | Advanced Electronic Circuits |  |  | 3 |
| 6.244 | Automation Systems |  |  | 3 |
| 6.242 | Microwaves |  |  | 3 |
|  | Electives | 3 | 3 | 3 |
|  |  | 16 | 17 | 17 |

## INDUSTRIAL SUPERVISORY TRAINING

The Industrial Supervisory Training curriculum is designed for employed supervisors and others who wish to seek supervisory positions. Most of the courses are scheduled during nonworking hours. The courses requir gram but are extended over a period of years to meet the needs of fully employed persons.

Completion of the approved portions of the curriculum leads to a limited certificate of completion. By meeting additional requirements, one can earn a certificate; and by completion of all required work, an Associate in Science degree.
The program includes courses in human relations, organization and management, labor-management relations, and related electives.

Two evening courses are presently offered each term.
Industrial Supervisory Training Courses (9.500-9.524) are described elsewhere in the Catalog.

## LAW ENFORCEMENT (Police Science)

Law enforcement is a two-year program designed for men and women seeking careers in law enforcement occupations. The curriculum was developed in cooperation with the State Advisory Board on Police Standards and Training. Completion of the program leads to the Associate in Science degree.
Students are prepared for entry positions in police departments, sheriffs ${ }^{\text { }}$ offices, and other law enforcement agencies. The program also provides opportunities for persons already employed in law enforcement to gain further training which will help them qualify for promotions.
Course work includes study of report writing, public speaking, psychology of human relations, criminal investigation, and defensive tactics.

## First Year

5.212, 5.213, 5.214 First Aid $\quad 1 \quad 1 \quad 1$
$5.204,5.206$
1.111, 1.112

Defensive Tactics
Communications

| 2.501, 2.503 | Typing ${ }^{1}$ | 2 | 2 |  |
| :---: | :---: | :---: | :---: | :---: |
| 5.200 | Introduction to Law Enforcement | 3 |  |  |
| 5.202 | Administration of Justice | 3 |  |  |
| 5.208 | Criminal Law |  | 3 |  |
| 1.605 | Health Education |  | 3 |  |
| 5.210 | Traffic Control |  |  | 3 |
| 5.240 | Report Writing |  |  | 3 |
| 1.606 | Introduction to Psychology |  |  | 3 |
|  | Electives | 3 | 3 | 3 |
| Second Year |  | F | W | S |
| 5.216, 5.217, 5.218 | Criminal Investigation | 3 | 3 | 3 |
| 5.234, 5.241, 5.242 | Problems of Physical Evidence | 1 | 1 | 1 |
| 5.226, 5.227, 5.228 | Firearms | 1 | 1 | 1 |
| 5.220 | Patrol Procedures | 3 |  |  |
| 1.610 | Public Speaking | 2 |  |  |
| 5.222 | Criminal Evidence | 3 |  |  |
| 5.230, 5.231 ' | Field Work |  | 1 | 1 |
| 5.236 | Juvenile Procedures |  | 3 |  |
| 1.600 | American Institutions |  | 3 |  |
| 5.238 | Criminal Law |  |  | 3 |
| 5.232 | Jail Procedures |  |  | 1 |
| 1.608 | Psychology of Human Relations |  |  | 3 |
|  | Electives | 3 | 3 | 3 |

TOTAL: 92 units
1 See Typing-Shorthand Placement page.

## PRACTICAL NURSING

The practical nursing program trains women and men in the skills of bedside nursing, to be carried out under the supervision of professional nurses and/or physicians. Graduates are eligible to receive a certificate of completion and to take the examination for licensing as a practical nurse in Oregon.
Jobs can be obtained as staff nurses in hospitals, nursing homes, state institutions, and private homes, as office nurses, in industrial nursing, in public health services or as surgical or other types of technicians.

Course work includes a study of normal health, growth and development nursing care in conditions of illness, and clinical practice.

Tuition is $\$ 90.00$ per quarter or $\$ 270.00$ for the 48 -week course. Fifty dollars of the tuition is due upon acceptance of the application, with the balance due at the time of registration. The $\$ 50.00$ is not refundable though it applies to the tuition when the student registers. Students who reside outside the Coos Bay or North Bend school district boundaries but in the Southwestern Oregon Area Education District receive a $25 \%$ reduction, Myrtle Point students $50 \%$, and Powers students $100 \%$ offset.

In addition to tuition costs, practical nursing students must have uniforms (approximately $\$ 20.00$ ) and textbooks (approximately $\$ 35.00$ ). White shoes and stockings, bandage scissors, and a watch with a second hand are required.

The first eight weeks of the course are spent in the classroom six hours a day, five days a week. The next four weeks, part of the time is spent becoming acquainted with hospital routine. After twelve weeks, students begin their assigned clinical practice in various hospital departments. During this time, students will spend one day a week in class.
During the clinical practice period in the hospital, students will be assigned duties by the college instructor and their schedules will be similar to that of the regular nursing employees (Saturdays and Sundays are not automatically days off). A total of 516 clock hours are spent in class and 1232 clock hours are spent in clinical practice.

To be admitted as a practical nursing student, it is necessary to:

1. file an application by April 15, about four months before the start of the program.
2. have high school transcripts sent to the college.
3. complete the college placement examinations.
4. be at least 18 and no more than 50 years of age.
5. have a physical examination including chest $x$-ray and necessary immunizations.
6. have a personal interview with the Practical Nursing Instructor and Dean of Student Services.

## SECRETARIAL STENOGRAPHY PROGRAM

Secretarial Technology is a two-year program designed to prepare students for entry jobs leading to a variety of secretarial positions. Completion of the program leads to the Associate in Science degree.

Through specialization and experience, students can qualify for legal, medical, technical, and executive or private secretarial positions.
Basic courses include shorthand, typing, business math, and secretarial practice. Optional courses are available in business law, accounting, credit procedures, and medical technology. After one year, work experience is frequently available in local businesses.

| First Year | F | W | S |
| :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications or |  |  |
|  | Wr 111, 112, 113 English Composition 3 | 3 | 3 |
|  | Typing according to placement ${ }^{1}$ | 2 | 2 |
|  | Shorthand according to placement 3 | 3 | 3 |
| 2.583, $2.5884,2.585$ | Office Procedures | 3 | 3 |
| BA 101 | Intro to Business | 4 |  |
| 6.900 | Data Processing Fundamentals or BA 131 Intro to Business Data Processing |  |  |
|  |  |  |  |
|  | Physical Education 1 | 1 |  |
|  | 15 | 16 | 16 |
| Second Year | F | W | S |
|  | Shorthand according to placement and/or electives ${ }^{2}$ |  |  |
| 1.120, 1.121, 1.122 | Man and Society or Social Science $\begin{array}{llll} & 3 & 3\end{array}$ |  |  |
|  | Accounting Electives 3 | 3 | 3 |
| $2.320,2.321$ | Business Law ${ }^{4}$ | 4 | 3 |
| Wr 214 | Business English | 3 | 3 |

## Technical-Vocational Programs

| 6.901 | Intro to Digital Computers |  | 3 |  |
| :--- | :--- | ---: | ---: | ---: |
|  | Physical Education |  | 1 |  |
|  | Electives | 3 |  | 9 |
|  |  | 18 | 17 | 18 |

1 See Typing-Shorthand Placement page.
2 SS 211, 212, 213 will not be offered after 1970-71.

## STENOGRAPHY

Stenography is a one-year program designed to prepare persons for positions as stenographers. A certificate is offered when course requirements are met.
Students are prepared to take and transcribe dictation in jobs requiring ordinary skills and speed. Many types of clerical positions that include a need for shorthand in addition to allied duties are open to graduates. A stenographer can, by experience and additional training, advance to the more demanding position of secretary.
Course work includes Gregg shorthand, typing, office procedures, and office machines

| First Year | F | W | $\mathbf{S}$ |
| :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications or |  |  |
|  | Wr 111, 112, 113 English Composition 3 | 3 | 3 |
|  | Typing according to placement ${ }^{1}$ 2 | 2 | 2 |
|  | Shorthand according to placement ${ }^{2}$ 3 | 3 | 3 |
| 2.583, 2.584, 2.585 | Office Procedures 3 | 3 | 3 |
| 1.120 | Man and Society 3 |  |  |
| 2.519 | Office Machines |  | 2 |
| Wr 214 | Business English | 3 |  |
| 6.900 | Data Processing Fundamentals or BA 131 |  |  |
|  | Intro to Business Data Processing | 14 | $\stackrel{3}{16}$ |
|  | TOTAL: 44 units |  |  |

1. See Typing-Shorthand Placement page.
2. Prerequisite 2.507

## WOOD INDUSTRIES TECHNOLOGY

Wood Industries Technology is a two-year program in which training in technical forestry is given in preparation for careers in government and industrial forestry. Completion of the program leads to the Associate in Science degree.
Students are prepared for entry occupations as forestry technician, scaler trainee, etc. These jobs can lead to supervisory and administrative positions.
Course work includes training in cruising, scaling, surveying, aerial photogrammetry, and logging methods.

| First Year |  | F | W | S |
| :---: | :---: | :---: | :---: | :---: |
| 1.111, 1.112, 1.113 | Communications | 3 | 3 | 3 |
| 4.202 | Mathematics | 4 |  |  |
| 0.515 | Intermediate Algebra I |  | 4 |  |
| Mth 100 | Intermediate Algebra |  |  | 4 |
| 6.401 | General Forestry | 3 |  |  |
| 6.404 | Elementary Forest Surveying | 3 |  |  |
| 6.406 | Forest Engineering I | 3 |  |  |
| 6.407, 6.408 | Forest Mensuration I, II |  | 3 | 3 |
| 6.410, 6.411 | Forest Operations I, II |  | 3 | 3 |
| 6.415 | Dendrology |  |  | 3 |
|  | Electives | 16 | 3 16 | 3 19 |
| Second Year |  | F | W | S |
| Bot 201, 202, 203 | General Botany | 4 | 4 | 4 |
| 6.409 | Forest Protection | 3 |  |  |
| 6.419 | Forest Recreation | 3 |  |  |
| 6.413 | Forest Products |  |  |  |
| 6.414 | Forest Contracts |  | 3 |  |
| 6.405 | Advanced Forest Surveying |  |  | 3 |
| 6.416 | Aerial Photogrammetry |  |  | 3 |
| 6.417 | Silviculture |  |  | 3 |
| 9.601 | Materials of Construction | 2 |  |  |
| 9.204 | Small Business Operations |  | 3 |  |
| 1.608 | Psy of Human Relations or Fundamentals of Speech Sp 111 |  | 3 |  |
|  | Electives | 3 |  | 3 |
|  | TOTAL: 98 units/credits |  |  |  |





## Technical-Vocational and Adult Course Descriptions

0.100 Adult Driver Training (2 Class Hrs/Wk)

Term Units 2 This is a course offered to odults who wish to loatn to drive. The course includes well as financial factors which include financial responsibility ond insurance. Both classroom instruction on driving procedures and driving practice in a dual-controlled
automobile will be included.
0.120 Basic Photography (1 Class, 2 Lab Hrs/Wk)

Term Units 2
This course is an introduction to the basic, prineiples of photogrophy, including in-
doctrination camera use, composition, darkroom developing and printing, and general doctrination comera use, composition, darkroom developing and printing, and general
assignment photographic work.
0.195 Band (2 Lab Hrs/Wk)

Term Unit 1
This course is offered to musicians in the community and at the college who wish on outlet for their talents and to improve their performing obility. Course work
includes a study of breath control; instrument techniaues and skils. music teadink notation and terminology; and musical literature of ail styles, periods, and cultures.
0.196 Orchestra (2 Lab Hrs/Wk)

Term Unit 1
This course is offered to musicians in the community and at the college who wish an outlet for heir talents and to improve their performing ability. Course work includes a study of tone controt; instrument techniques and skills; music reading, notation
0.197 Chorus ( 2 Lab Hrs/Wk)

Term Unit 1
This course is offered to musicians in the community and at the college who wish
on outlet for their folents and to improve their performing ability. Course work includes a study of breath control: voice placerment performing ability. Course work inctatios a sfaderminology; and choral literature of all periods, styles, music reading,
0.500 Mathematics Workshop ( 5 Class Hrs/Wk)

Term Units 0 A course designed for stupents whose knowledoe of basic arithmetic or interfor successful completion of his science sequence or any other program requiring knowledge of basic mothematics.
0.501 Communications Workshop (2 Class Hrs/Wk) Term Units 0 A. required course taken 2 hours ecch week in conjunction with Communicotions relation to their reading speed and comprchension. Additional work is offered in the oreas of spelling, writing, and vocatulary development. The course is open to evening students os well, who wish to toke the coursc by itself (not in conjunction
with the Cormmunication series, for developmental purposes). The evening section is with the communication series, tor developmental purposes). The evening section is help is offered to those needing to learn to read and write.
0.510 Elements of Algebra

Term Units 2 Stresses the transition from arithmetic to olgebra for students with little or no previous experience in algebra. Includes the concepts of numbers, natural numbers,
integers, rational numbers, etc., their generalizotion and simple algebraic procedures
0.515 Intermediate Algebra $I$ ( 4 Class Hrs/Wk)

Term Units 2 Tractions of Intermediate Algebro including properties of real numbers, polynomials, froctions, exponents, roots, radicals, and first and se
equalities. Prerequisife: Elements of Algebra 0.510 .
0.540 Drawing I ( $\mathbf{3}$ Lab Hrs/Wk)

Term Unit 1 This course in beginning drowing serves as an introduction to the various approache positional devices is employed to enoble the media, methods, technigues and com pof drawing as possible.
0.541 Drawing II (3 Lab IIrs/Wk)

Term Unit 1 The second in the sequence of Drawing courses aims to develop within the studen anatomy.
0.542 Drawing III (3 Lab Hrs/Wk)

Term Unit 1 This, the last course of the three-term sequence, is designed to develop within the
0.543 Watercolor Painting I ( $3 \mathrm{Lab} \mathrm{Hrs} / \mathrm{Wk}$ )

Term Unit 1 The first course of a threc-term sequence. it is primarily designed as an investi-
gation of the medium and the aporoaches possible with tronsporent watercolor
0.544 Watercolor Painting II (3 Lab Hrs/Wk)

Term Unit 1 The second course of the sequence in watercolor continues the investigation of th medium through the use of creative exercises and the investigative method of prob
0.545 Watercolor Painting III (3 Lab Hrs/Wk) Term Unit 1 The last course in the sequence in wotercolor pointing is designed to develop within
the individual a keen owareness of the particular qualities of this medium as compared to the other media of painting.
0.546 Oil Painting I (3 Lab Hrs/Wk) Term Unit 1 This course is the first of a three-term sequence designed to ocquaint the studen
with the medium of oil point and the methods and techniques necessary for establish ing a basic knowledge of oil painting.
0.547 Oil Painting II (3 Lab Hrs/Wk)

Term Unit 1
The second course of the three-term sequence continues the investigation of prob-
0.548 Oil Painting III ( $3 \mathrm{Lab} \mathrm{Hrs} / \mathrm{Wk}$ )

Term Unit 1 The third course of the sequence in oit pointing is designed to further the investigotions of the two previous terms and to introduce mural design and composition together with landscape painting.
0.549 Experimental Painting ( 3 Lab Hrs/Wk)

Term Unit 1 A single term course in advanced painting, accenting the use ond investigation o colloge. Prerequisites; including glues, plastic paints lacrylic and vinyl resins) and colloge. Prerequisites: 0.540 through' 0.54 B or consent of the instructor.
0.550 Ceramics I (3 Lab Hrs/Wk)

Term Unit 1 hee first term of a three-term sequence, this course is an introduction and investi-
0.551 Ceramics II ( $\mathbf{3}$ Lab Hrs/Wk)

Term Unit 1
The second term of the sequence in ceramics introduces the throwing process and

## Technical-Vocational and Adult Course Descriptions

0.552 Ceramics III (3 Lab Hrs/Wk

Term Unit 1
The third ceramic term consists of a further development of individual and traditional historic pottery as a background for research.
0.553 Elementary ScuIpture I (3 Lab Hrs/Wk) Term Unit 1 This course is designed as on introduction to the materials, methods and techniques of sculpture. Primary considerations of form, together with experimentation, famliar-
ization and composifional structuring in alf of the basic seulpture media, are the ization ond compos this course.
0.554 Elementary Sculpture II (3 Lab Hrs/Wk) Term Unit 1 The second course in the sculpture sequence emphosizes the problems and approachThe second course in the carving of subtractive method of sculpturing.

Term Unit 1
0.555 Elementary Sculpture III (3 Lab Hrs/Wk) The third term in this sequence introduces the student to more advanced creative design in sculp
0.564 Introduction to Commercial Art (3 Lab Hrs/Wk) Term Unit 1 The first course of a three-term sequence designed to introduce the sfudent to methods and techniques in layout, lettering, and commercial art as a field
0.600 Conversational Spanish (21/2 Class Hrs/Wk) Term Unit 1 An introduction to conversational Sponish. The course provides apportunities for practical conversation on everyday tapics, current events, and cultural material.
0.601 Conversational Spanish (21/2 Class Hrs/Wk)

Term Unit 1 An intermediate course - continuation of Conversational Spanish 0.600 .
0.602 Conversational Spanish (21/2 Class Hrs/Wk) Term Unit 1 An advanced course - continuation of Conversational Sponish 0.601.
0.653 Vocal Techniques Workshop (5 Lab Hrs/Wk) Term Unit 1 The course consists of methods to improve one's singing voice. The study involves
the basic principles of breathing and vocal production, as well as the applitation of these principles to singing and to song literature.
0.654 Fundamental Music Workshop (3 Class Hrs/Wk) Term Units 1 A creative approach to music leorning for those with little previous formal troining and social studies will be utilized to lead into the musical experiences of singing, playing, listening, or moving to music.
0.655 Band (2 Lab Hrs/Wk) Term Units 1 The course consists of a study of breath control; instrument techniques ond skills and cultures.
0.656 Orchestra (2 Lab Hrs/Wk) The course consists of a study of tone control; instrument techniques and skills; styles, and cultures.
0.657

Chorus (2 Lab Hrs/Wk)
Term Units 1 The course consists of a study of breath control; voice placement and proper use; and cultures.
0.659 Introduction to Guitar I (1 Lab Hr/Wk) Term Units 1 The course consistse of an advanced study of (1) instrumentat techniques and skills, reading literature for guitar
. 660 Introduction to Guitar II (1 Lab Hr/Wk)
Term Units 1
The course consists of an advanced study of (1) instrumental techniques and skills. to the serious literature for guitor
0.700 Aviation Orientation ( $21 / 2$ Class Hrs/Wk)

Term Units 0
A six-weeks course especially planned to acquaint wives, husbands and parents of pilots with the principles of flight, air novigation, meteorology and Federal air regulations.
0.920 Basic Clothing Construction ( $3 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 1 This course is designed for homemakers who wish to learn the bosic techniques of sewing and for those who are interested in improving ond learning new methods.
The caurse covers fabric selection, simple pattern afteration, selection and use of cquipment pressing techniques, as well as the basic techniques of clothing construction needed to enter the more advanced closses. Projects include apron, blouse, skirt and dress.
0.921 Advanced Dressmaking (3 Hrs/Wk) Term Units 1 New methods of construction of gorments from new chemizal fobrics with emphasis on creative details; emphasis on principles of clothing selection and pattern a
fabric coordination. Use of interfacings, linings and underlinings will be studied.
0.922 Basic Fitting and Shirtmaking (3 Hrs/Wk) Term Units 1 The course covers techniques for making a basic dress from percale for use as a fitting shell. These garments ore then used as o quide in drafting a basic pottern of pellon, which is then used as a guide for making perfectly fitted clothes and
used os a bose for creating original designs. Construction of a man's wool shirt used os a bose for creating original designs. Construction
or jocket is also included in the course. Prerequisite 9.920.
0.923 Sportswear and Children's Clothing (3 Hrs/Wk) Term Units 1 This course is designed for homemakers who wish to increase their generol sewing skill and gain more experience and confidence in their sewing abilities before going on to the more advanced courses. Construction of children's sleepwear, girls' dresses, garments of nap tabric, boys' slacks, various neckline and sleeve finishes for children's garments are covered in this cours
0.924 Tailoring a Coat ( $3 \mathrm{Hrs} / \mathrm{Wk}$ ) Term Units 1 This course is designed to give students better knowledge of tailoring techniques, experience in working with heavier wool fobrics andering materlals. instruction interfocing o cut-on facing, lining a oarment with raglan sleeves, making and applying a notched collor, slot or modified welt pocket and tailored buttonholes. Prerequisite: 9.920 and 9.922 .

## Technical-Vocational and Adult Course Descriptions

0.925 Tailoring a Suit (3 Hrs/Wk) Term Units 1
This odvanced course in tailoring presents the techniques used in making o suit.
Included is o more odvanced method for setting in sleeves, seporate front focing,
cuffs, shoulder shopes, linings ond wolking pleats.
0.926 Clothing Selection and Construction Term Units 1 A course covering the principles of ciothing selection, with emphasis on fabric,
design, style, and color os reloted to the individual. Instruction in beginning design, style, and color os reloted to the individual. Instruction in beginning
clothing construction is also included.
0.927 Wardrobe Accessories ( $3 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 2 The course features clothing selection principles and emphasizes selection of acrobe items including occessories for many different occasions will be studied.
0.928 Pattern Drafting (21/2 Hrs/Wk)

Term Units 2
This course is designed for the individual who is interested in learning flat pattern drafting techniques which will be useful in altering com
0.929 Special Fabrics Workshop ( $3 \mathrm{Hrs} / W \mathrm{~W}$ )

Term Units 1 A specially designed short cousse to give homemokers, fabric salesclerks and others making knit shells, sweaters, knit suits, swimwear and sportswear are included.
0.931 Advanced Pattern Drafting (2 $1 / 2$ Hrs/Wk)

Term Units 2 The course will cover pottern drafting techniques used in oltering commercia patterns and altering and restyling apparel items as well os methods for creating
original styles. Will include advanced steps in creating sleeves, necklines, collars, original styles. Will include advanced steps in creating sleeves, necklines, collars,
and skirts. Emphasis will be on techniques for developing original designs. Prerequisite: Flat Pottern Drofting.
0.932 Advanced Sewing with Knits (21/2 Hrs/Wk)

Term Units 2 This course is designed for individuals who wish to learn more obout the characmost effective when wnit fobrics ore used in making tailored type suits, and variou types of sportswear.
0.941 Family Finance and Resource Management
(3 Hrs/Wk) (4 Wks)
Term Units 1 A study of new ideas for fomily maney management, including use of credit, income tax procedures, teaching chilien how to manage money, and study of consumer
0.942 Home Furnishing and Decorating ( $3 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 1 This course covers the fundomentals of home turnishing and decorating, including coverings, window treatments, wall finishes, furnlture, Ilghting, and ancessories are all studied so the homemaker can evaluate and improve her own home in terms of comfort, convenience, beauty, and suitability to the individual needs.
0.943 Home Management for Students with Special Needs (2 Hrs/Wk)

Term Units 2
A course in general home management designed for the student with special needs. The course covers management of time, energy, money and other family resources. Explores the decision-making process and includes specific techniques for increasing cutting techniques are emphosized in each orea.
0.944 Home Maintenance and Repair

Term Units 2 The course is designed to help the student develop a greater awareness of the im of the bosic principles of home maintenance including an understanding of same of materials and techniques used in maintaining and repairing windows, floors steps, roofs, storage areas, bathrooms ond kitchens.
0.945 Consumer Education for Students with

## Special Needs (3 Hrs/Wk)

Term Units 2
This course is designed for members of low-income households ond emphasizes a proctical approach to the consumer problems of low-income families. Includes parison shopping techniques, use of credit, clothing expenditures,
0.947 Home Decorating with Window Treatments

Study of the use of design, color, texture, space ond form in decorarm Units 2 will be covered. Special emphasis on window treatments will inecorating the home for constructing lined and unlined draw draperies. Laboratory work will be Included.
0.970 Meal Preparation for the Family (3 Hrs/Wk) Term Units 3 This course covers creative meal preparation for the modern family with lessons on effective food buying, meal planning, time-saving food preparation, special diet needs and some specialty and holiday cookery
0.960 Family Life: Relationships 1 ( 2 Hrs/Wk)

Term Units 2
(Personal Developrnent)
A course plonned to the student develop a greater understandino of the importance of efficient personal management, optimal health ond nutrition, and quality personal appearance in the development of the individual. Indivldual
development in relation to wage earning will be emphasized.
0.962 Marriage and the Family ( $3 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 2 Exploration of the social-cuitural forces influencing family life, the personal de amily life, patterns of family living and preparation for parenthood
0.968 Understanding the Preschool Child Workshop
(2 Hrs/Wk, 6 Wks ) Term Units 1
An Introduction to the factors affecting the child's physical, emotional and intelextual develaprnent. provides parents of preschoo chic own an opportunity to fluence development of self-discipline, responsibility, initiative and imagination

## Technical-Vocational and Adult Course Descriptions

0.972 Creative Cookery (21/2 Hrs/Wk) Term Units 1 The caurse includes basic food preporation techniues used in preparation of meals for the family. ineal planning, practical nutrition food buying and creative
ways to use ordinary ingredients in family meal preparation ore included. Lettures, demonstrations and loboratory
1.111 Communications (3 Class, 2 Lab Hrs/Wk) Term Units 3 A course stressing $\begin{gathered}\text { the importance of communications activities. } \\ \text { to improving the student's obility to write, speak, read and } \\ \text { isten effectively. }\end{gathered}$ is given Ao improving the student's obility to write, speak, read and listen effectively.
to
istudents are required to shindue two hour each week in the Study Cnter. Students who register for this class must also register for 0.501 communication
Wodkson Workshop ( 2 class hrs/wk, which consists of odditional work in reading, speling,
writing and vocabulary development.
Satisfoctory reading test scores may exempt sfudents from this required workshop.
1.112 Communications (3 Class, 2 Lab Hrs/Wk)

Term Units 3
This course is a continuation of Communications 1.111. (Students are required to schedule two hours each week in the Study Center). Students who register for this class must also register for 0.501 Communications Workshop ( 2 class hrs/wk), which consists of additional work in reading, spelling, writing
students from this required workshop.
1.113 Communications ( 3 Class, 2 Lab Hrs/Wk)

Term Units 3 This course is a continuation of Communications 1.112. (Students are required to schedule two hours each week in the Study Center). Students who register for this closs must also register for 0.501 Communications Workshop ( 2 eloss hrs/wk), which consists of additionol work in reading, spelling,
writing ond vocabulary development.
satisfoctory writing and
students from this required workshop.
1.120, 1.121, 1.122 Man and Society (3 Class Hrs/Wk)

Term Units 3 This course involves the relationship of the seven social science disciplines on the personality of the individual and, in turn, the impact of developing personalities
individually and collectively on contemporory culture ond society. The
first
term, 1.120 , pays particular ottention to the role of the individual and his personolity: the scend term, 1.121 is devoted to on understanding of society and the inherent
value system invilved in the understanding of society. The third term, 1.122 , relotes the indivldual to his work and the effect of this combination on soclety.
1.221 Labor-Management Relations (3 Class Hrs/Wk) Term Units 3 This course traces the development of the unionism in the United States. Attention
is given to the roles of labor ond management in collective bargaining. A review of labor and management legislation is correlated with the development of unionism. Labor organlzation disagreement, arbitration, conciliation and problems of labor are also studied.
1.127 Writing for Publication

Term Units 3 A survey of current opportunities and requircments in vorious markets available to and training foward the development of useful critical standards.
1.130, 1.131, 1.132 Apprec. of Literature (2 Class Hrs/Wk) Term Units 2 This course covers the short story and novel in the first quarter, dramo in the second organization of the particular medium in terms of the conventions and characteristics peculiar to it. The remainder of oach quarter will, through reading and discussion, relate the whole to the constituent parts. At the conclusion of the three quarters the relationship among the three media will be seen.
1.133, 1.134, 1.135 Appreciation of Shakespeare 1, II, III Term Units 3 Careful and complete study of selected Shakespearean tragedies, comedies, ond
histories. Designed to fit into the programs of the Oregon Shakespearean Festival in Ashland.
1.136 Introduction to Theatre (3 Class Hrs/Wk)

Term Units 3 A survey course covering the development of the theatre from classical Greek to
contemporary practices and plays. Fall term: Sophocles to Shakespeare: Winter contemporary practices and plays. Fall term: Sophocles to Shakespeare; Winter term: Shokespeare to Shaw; Spring term: Show to lonesco. The course will follow tween forms and styles of dramatic literature; will be tied into the ehanges in orchitecture, production methods-acting, directing, stoging, etc., and their effects on the social/cultural atmosphere and conditions of their' particular time.
1.404 Career Development and College Success Term Units 3 This course provides on opportunity to explore abilty, interest, aptitude, and
personality foctors involved in setting personal life gools and making educational personality
and career dectors invions.
1.610 Public Speaking (1 Class, 2 Lab Hrs/Wk)

Term Units 2 This course is intended to develop speaking skills with emphasis on the dual role of speech as both a speaking and listening skill, and on odjusting the approach to discussions with careful ottention being given to effective orgonization and delivery. in addition to the general principles of speech, stress is placed on polse and confl-
2.250, 2.252 Business Mathematics ( 3 Class Hrs/Wk)

Term Units 3 A fwo-term sequence, 2,250. A concentrated class of programmed learning. ReUses of alacioraic equations to solve business problems. 2.252 , interest, discount. Ueostioble instruments, payroll mathematics, cash and trode discount, computing
nommission and depreciation.
2.261, 2.262, 2.263 Work Experience (10.20 Hrs/Wk)

Term Units 4 General approved and supervised poid work experience in conjunction with major
 maining arrat 12 units is allowed towards an A.S. degrea. Reloted instruction maximum of 12 units is allowed towards are A.S. degree. Related instruction
2.264, 2.265, 2.266 Related Instruction (1 Class, 4 Lab Hrs/Wk) Term Units 2 Each student enfolled in Work Experience ( $2.261,2.262$ or 2.263 ) must olso enroll
in this course.
Instruction is related to work experience activities and requirements.
2.290 Advertising Art I (3 Lab Hrs/Wk)

Term Units 3 The first bosic introduction to commercial art . . . its scope, varled fields, and production processes.

## Technical-Vocational and Adult Course Descriptions

2.301 Credit Procedures ( 3 Class Hrs/Wk)

Term Units 3 A study of the principles and methods of credit administrotion in the mercantile and retail field, including sources of information, credit policy, credit control, legal remedies, ond collection techniques.
2.304 Fundamentals of Marketing (3 Class Hrs/Wk) Term Units 3 A general survey of the noture, significonce, and scope of marketing. Emphasis
is placed upon the chanmels of distribution; the marketing of consumer, shopping specialty and other goods; service marketing; middlemen, wholesaling, shipping ond warehousing; standardization, grading, and pricing; government regulation of competition.
2.305 Principles of Retailing (3 Class Hrs/Wk)

Term Units 3 A generol survey of the principles of efficient store organizotion and management. ment operoting activities, finoncial and budgetary control, coordinating polices, and store protection.
2.307 Advertising (3 Class Hrs/Wk)

Term Units 3 An introduction to advertising and the role it plays in business. Planning adverising progroms, odvertising budgets, media, fechniques of merchondising with applied to the newspaper and direct moil media ore studied.
2.320 Business Law ( 3 Class Hrs/Wk)

Term Units 3 An introduction to business law. Emphosis is on contractual relationships, the illustrate the princtples involyed. negotiable instruments. Case studies ore used to tilustrate the principles involyed.

Term Units 3
2.321 Business Law ( 3 Class Hrs/Wk) A continuation of 2.320 with emphasis on agency and employment. union lobitror 2.320 or consent of instructor.
2.322 Business Law (3 Class Hrs/Wk) Term Units 3 A continuation of 2.32 i with emphosis on risk-bearing devices, partnerships and A continuation of
corporotions, bonkruptcy, and current social legislation. Prerequisite: One ferm of Business Law, 2.320 or 2.321 , or consent of instructor.
2.330 Fundamentals of Salesmanship (3 Class Hrs/Wk)

Term Units 3 An analysis and evaluation of the salesmon of today and the role he plays in of selling constitute the areas covered in this course. Detoiled attention is given to both inside and outside selling activities.
2.331 Federal Income Tax (3 Class Hrs/Wk)

Term Units 3 A study of income tax law and the record-keeping necessary for income tax purposes.
2.340 Consumer Economics (3 Class Hrs/Wk)

Term Units 3 Considers the bosic principles underlying the noture of consumer credit, sovings
institutions, insurance and annuities, real estote, income toxes, investment outlets, institutions, insurance and annuities, real estote, income toxes, investment outlets,
and estote planning. Case study method is emphasized.
2.380 Principles of Finance (3 Class Hrs/Wk)

Term Units 3 A study of the function of capital in the economy ond the business enterprise;
bosic institutions contributing to the creation and flow of capital and basic instruments and their use.
2.400 Real Estate Principles I (3 Class Hrs/Wk)

Term Units 3 A fundornental course to prepare for entry into the real estate industry. Includes ights, taxation, real estate instruments, finance, and property ownership. Prerequisite: None.
2.401 Real Estate Principles II (3 Class Hrs/Wk)

Term Units 3 A continuation of Real Estate Principles 1 to further prepare for entry into the real estate industry. Includes a basic approach to brokerage and licensing as applied
to the State of Oregon covering operating an office, selling, and advertising. Introduces student to accepted stondords of ethical conducts, property management, titles, voluation, planning, zoning, urban renewal, public housing and developments. Prerequisite: Real Estotc 'Principles 1
2.402 Real Estate Law (3 Class Hrs/Wk)

Term Units 3 A proctical study of Oregon Real Estate Low emphosizing the more complex aspects of ownership, use ond transferability of real estate as encountered by brokers and covenants, conditions, restrictions, casements, estates, probatc, ond Iondlord,tenant relationships. Includes a review of significont Oregon cases. Prerequisite: Real
.403 Real Estate Exam Review (3 Class Hrs/Wk)
Term Units 3 Comprehensive review of real estate principles and law with porticular emphasis on math problems, earnest money agreement, listing agreement, and closing state-
ment. Specific preparation for taking and passing Oregon state braker's and ment. Specific preparation for
salesman's license examination.
2.501, 2.503, 2.505 Typing (1 Class, 4 Lab Hrs/Wk) Term Units 2 2.501 - Introduction to (1) keybocrd (2) simple production. Knowledge of mechani2.503 - Speed and occuracy bilding - review of simple production. Prerequisite 2.505 Knowledge of keyboard. 2.505 - Number speed.and-acturacy building. Advanced production: Business cor-
2.507 Typing (1 Class, 4 Lab Hrs/Wk)

Term Units 2 The student is provided with sustained practice in long-range assignments of specialized appliconons indushic and professional helds such as legal, engrechig, medical, sales ond public relations, communications, etc. Prerequisite: Typing
2.505 or equivalent.
2.519 Office Machines I (1 Lecture, 3 Lab Hrs/Wk) Term Units 2 An introduction to the aperation of the following machines: 10-key adding machines, rotary calculotor, priting calcuitor, key purch and accounting
machines,
including on introduction to simple problems of applicotion ond decision making.

## Technical-Vocational and Adult Course Descriptions

2.521 Office Machines 11 ( 1 Lecture, 3 Lab Hrs/Wk) Term Units 2 A continuation of 2.519 involving opplying the skills ocquired in 2.519 to prob-
lems in percentage, interest ond discounts. Attention will be given to problemlems in percentoge
solving procedures.
2.541, 2.543, 2.545 Shorthand (2 Class, 3 Lab Hrs/Wk)

Term Units 3 Theory of Gre99 Shorthand; proctical applications in sentence ond poragroph
dictation. $2.501,2.503$, and 2.505 must be token consecutively unless the student has had the equivatent. Students with one year of high school shorthand will be placed on the odvice of the instructor
2.583, 2.584, 2.585 Office Procedures (2 Class, 3 Lab Hrs./Wk) Term Units 3 A sequence of courses to present the knowledge of office proctices and equipment. together with a futl year of personal manosement.
2.583 - Business Psychology.

2584 - Organization of work, office supplies, reference spuress, postal procedures,
 spirit, mimicograph, multilifh and copying machines.
2.590, 2.591, 2.592 Secretarial Practice (2 Class, 3 Lab Hrs/Wk)

Term Units 3 A three-term sequence of proctical application of shorthand dictation, transcription, on decision-making judgments demandad of secretarial employees, is infroduced toque tole and responsibilities of the secretary in onsimulated office
2.600 Transportation I (3 Class Hrs/Wk)

Term Units 3 Introduction to transportation, transportation in our economy, the transportation
system and airline development, development and system and airline development, development and regulation of transportation,
theory of rate making and government controls, selected corrier problems and transportation policies.
2.766, 2.767, 2.768 Accounting (3 Class, 2 Lab Hrs/Wk)

Term Units 4
2.766 is a comprehensive study of the recording and reporting phoses of accounting and bookkeeping for a single proprictorship business. Prerequisite: Little or no bookkeeping or accounting experience.
2.767 is o comprehensive study of payroll, partnership, eash, and negotiable instrument occounting. An practice set requiring extensive, record keeping ond re-
porting of accounting data is required. Prerequisite: 2.780 or consent of the instructor.
2.768 is a comprehensive study of the reparting and problem salving phoses of accounting so the student con meet and onalyze increasingly difficult accounting 2.766 and 2.767 are required for all one-year vookkeeping-cierical
2.766 and 2.767 are required for all one-year Dookkeeping-clerical students. 2.766,
2.769 Cost Accounting (3 Class Hrs/Wk)

Term Units 3
Introduction to the onolysis ond control of material, labor, and overheod costs
in manufacturing. with emphosis on process and iob order cost systems. Prein manufacturing, with emphasis on process ond iob
requisite: Accounting 2.768 or approval of instructor.
2.771 Payroll Accounting (3 Class, 1 Lab Hrs/Wk)

Term Units 3 Federal and staic old age, unemployment, and disobrlity insurance lows; state ond local salos taxes. Accounting records which involve the numerous regulations of governmental bodies. Prerequisite: Accounting 2.766 or approval of instructor.
3.300 Suspension and Brake Systems (2 Class, 3 Lab Hrs/Wk)
Term Units 3The construction and operation of front and rear suspension systems and hydroulic brokes. Includes adiusiment and repoir procedures. Prerequisite: Practical Physics brokes.
4.300 .
3.304 Internal Combustion Engines I (2 Class, 3 Lab Hrs/Wk)
Term Units 3
Theory, operation, ond maintenance of internal combustion engines.3.306 Internal Combustion Engines II (1 Class, 4 Lab Hrs/Wk$\begin{array}{ll}\text { reparif } \\ \text { bustion } \\ \text { Reocesses } \\ \text { Engines } & \text { required } \\ 3.304 .\end{array}$Theory ond opplication of basic
Prerequisite:
Proctical Physics 4.304 .
3.310 Fuel Systems (2 Class, 3 Lab Hrs/Wk) Term Units 3 Theory and operation of mojor components of fuel systems of internal combustion Theory
3.314 Power Accessories (2 Class, 2 Lab Hrs/Wk)
Term Units 3 Theory and operation of pawer steering, power brakes, power windows, and power
tops includes disossembly, assembly, and testing of various power units. Prerequisites: Hydraulics-Pneumatics 3.320 .
3.316 Power Trains (1 Class, 2 Lab Hrs/Wk)
Term Units 2 Power transmission through clutches, standard transmissions, overdrives, drive lines, requisite: Suspension and Broke Systems 3.300 .
3.318 Steering Controls (2 Class, 3 Lab Hrs/Wk) Term Units 3 A detalled study of wheel olignment factors, equipment and procedures. Wheel balancing methods are included with alignment trouble diagnosis. Prerequisite: Suspension and Brake Systems 3.300
3.320 Hydraulics-Pneumatics (2 Class, 2 Lab Hrs/Wk) Theory and application of hydraviic power in industry.
Term Units 3
3.321 Basic Industrial Hydraulics (3 Class Hrs/Wk)
Term Units 4 The course consists of a study of the basic laws that govern hydrautic power; a study of a maiority of industrial hydraulic components, Their nomenclature, operation, and function: and the complete bosic hydroulic circuitry necessory for primary
3.322 Electrical II (3 Class, 3 Lab Hrs/Wk) Term Units 4 Principles and operotion of D.C. and A.C. generotion ond regutation systems. devices. Prerequisite: Electrical 3.308
324 Diagnostic Procedures (2 Class, 3 Lab Hrs/Wk) Term Units 3 systematic testing and tuning of I.C. engines. Prerequiste: Electrical 3.322.
3.326 Automatic Transmission (3 Class, 3 Lab Hrs/Wk)

Term Units 4 Theory ond operating principles of automatic transmission. Hydraulic and power
flow principles are opplied to typical units. Prerequisite: Hydraulics-pneumatics 3.320
3.329 Mechanical Systems Laboratory (9 Lab Hrs/Wk) Term Units 3 Engine overhaul, carburetion, and electrical system service. Prerequisite: 4th term
3.331 Mechanical Systems Laboratory ( 9 Lab Hrs/Wk)

Term Units 3
3.332 Service Management ( $(2$ Class Hrs/Wk)

Term Units 2 A coutse designed to give the students on appreciation of the duties and respon-
sibilities of the service manoger. Prerequisite: 6 th term standing.
3.333 Mechanical Systems

3 Mechanical Systems Laboratory (9 Lab Hrs/Wk) Term Units 3 The final course in shop service operotions. Emphasis is placed on flat rate
sehedules and repair cost estimating.
job selection is extended into the tur and outomatic transmission fields. Prerequisite: 6th term standing, plus 3.331 . up
4.101 Drafting (4 Lab Hrs/Wk)

Term Units 2 This is a fundomental course in drafting designed to give the student a basic understanding of drawing techniques. Emphosis will be ploced on the applization of drafting instruments, standord orthographic projection, layout procedures, and ASA, selection of views, sectional and auxiliory views, revolutions, threads, and standord dimensioning practices will be covered. Prerequisite: High school olgebra or approval
of department head. Mathemotics 4.202 may be taken concurrenty.
of department head. Mothematics 4.202 may be taken concurrently.
4.103 Electrical Drafting ( 4 Lab Hrs/Wk)

Term Units 2 This course covers the techniques required for the electrical and electronic fields. It includes charts, graphs, chossis loyout, schematic and pletorial weiring diagrams,
routing diagrams wiring and ducts), and location drowings. standord Schematics such as andergound starters, annuinciotors, AM receivers, and other typical industrial suircuits will be covered. ASA ond EEIA opproved symbols will be used. Prerequisites: Drafting
4.101 or equivalent.
4.105 Drafting (4 Lab Hrs/Wk)

Term Units 2
This is on intermediate course designed to prepare students to enter mechonical,
 spective drawings. Emphosis is ploced on the concept, tachnique of inking, and shop equipment ore wisrussed. Prerequisite: Drafting 4 dity. Limitations of general
4.109 Mechanical Drafting (4 Lab Hrs/Wk)

Term Units 2 An advanced course emphasizing mechanical design. It includes sketching, cam and tool fig drawings. Simplifled drowing techniques will be covered and oencras, shop procedures will be discussed. Emphasis will be placed on the Industriol requirements of drowings. Prerequisite: Third term standing or approval of depart-

### 4.110 Blueprint Reading and Sketching ( 2 Class, 2 Lab Hrs/Wk)

Introduction to blueprint reading and basic industrial sketching.
4.111 Structural Drafting ( 6 Lab Hrs/Wk)

Term Units 2 An odvanced course emphosizing civil and structural drafting procedures. It
includes the function and design of: the general plan, stress diagrams, shop includes, he function ond design of: the general plan, stress diagrams, shop sheet metal layout. Also, bill of moterials, rivet lists, drawing indexes, desion considerations, and strength of joints will be covered. The student will become acquainted with structural shapes, and principles of bridge building, dom and earthwork constructions.
6.370 or equivalent.
4.119 Project Drafting (9 Lab Hrs/Wk)

## Term Units 3

This course emphasizes working conditions of the industrial drafting room. Students will be assigned projects that will include one or more drawings requiring oll of the reading specifications, common materials of fobrication, methecking for detoil loyout, drawings, and material take-offs. Discussion will cover the odministration of the drafting room, issuing drowings, and revisions. Speed and accuracy will be considered of paramount importance. Prerequisite: Drofting 4.105 which may be taken concurrently.
4.121 Project Drafting (8 Lab Hrs/Wk)

Term Units 3 A continuation of the emphosis on industrial working conditions. Students will be assigned projects (requiring use of all previously learned skills. and principles)
that will familiarize them with many of the specialized fields of drafting. that will familiarize them with many of the specialized fields of drafting. Instruc-
tion will include the bosic tion will inelude the basic methods for layout and detailing, assembliee. and sub-back-checking, drawings, and moterials toke-offs. Drafting room standards of various local industries will be discussed. Speed ond accuracy will be considered of paramount importance. Prerequisite: Project Drafting 4.119 or equivalent.
Welding I (1 Class, 3 Lab Hrs/Wk) Term Units 2 Introduction to welding, cutting, brozing and soldering. Includes theory and prac-
tice in all areas.
4.151 Welding II (1 Class, 3 Lab Hrs/Wk)

Term Units 2 An advanced course which provides instruction and laboratory proctice in the more
4.160 Metals Technology ( 2 Class, 3 Lab Hrs/Wk)

Term Units 3 Theory and application of ferric physical metallurgy, basic theary of metals, heat
treating, and micrastopic analysis.
4.161 Metals Technology II (2 Class, 3 Lab Hrs/Wk) Term Units 3 Laboratory procedures for preparing metalic specimens for metollurgical inspection metals, heat freatments and weld joints. exploration by use of vorious industria
4.170 Machine Tool Practices (2 Class, 4 Lab Hrs/Wh) Term Units 3 Fundamentals of precision metal shaping, with hand and machine processes.
4.1\%1 Machine Tools Practices II (2 Class, 3 Lab Hrs/Wk) Term Units 3
4.202 Mathematics ( 3 Class, 2 Lab Hrs/Wk)

A practical review of arithmetic, fundamentals of amplied alaebra Term Units 4

## Technical-Vocational and Adult Course Descriptions

4.204 Mathematics (3 Class, 2 Lab Hrs/Wk) Term Units 4 The application of orithmetic, algebra, geometry and trigonametry to various occu-4.300 Practical Physics (3 Class, 2 Lab Hrs/Wk)Term Units 4This is an introductory course in practical physics covering matter, measurements,mechanics, and machinas, Loboratoryrequisite: Mathematics 4.202 should be taken concurrently.
4.302 Practical Physics (3 Class, 2 Lab Hrs/Wk)
Term Units 4 This is on introductory course in practical physics covering heat, light, and sound,
Loboratory time is provided for demonstrations and experiments to help clarify the principles and procedures covered in class. Prerequisite: N.athematics 4.202 or equivalent.
4.304 Practical Physics (3 Class, 2 Lab Hrs/Wk)
Term Units 4 This is on introductory course in practical physies covering magnetism and electricity. Laboratory itme is provided for demonstratlons and experiments to help elarify the
principles and procedures covered in class. Prerequisite: Mathematics 4.202 or principles
5.190 Basic Law Enforcement (3 Lab Hrs/Wk) Term Units 3 A bosie training program of 120 hours divided into 4 terms of 30 hours each. The
course work parallels the recommended curriculum of the 5 State of Oregon Poliec Academy by the Board of Police Standards and Training. Thls course requires a prerequislte of reserve law enforcement status.
5.200 Introduction to Law Enforcement (3 Class Hrs/Wk) Term Units 3 The philosophy and history of law enforcement; overview of crime and police problems; organization ond jurisdiction of local, state and federal tow enforcement
ogencies; survey of professional career opportunities, qualifications required, ond ogencies; survey of professional career opportunities, qualifications required, and police ethics.
5.202 Administration of Justice (3 Class Hrs/WK) Term Units 3 Reviow of court systems; procedures from incident to final disposition; principles of consement. federal, state
5.204 Defensive Tactics (2 Lab Hrs/Wk)
Term Units 1 A course designed to teach the rudiments of self-defense and attock. .Boxing,
5.206 Defensive Tactics (2 Lab Hrs/Wk)
Term Units 1
5.208 Criminal Law (3 Class Hrs/Wk)
Term Units 3 The structure definitions and the most frequently used section of the Penal Code
5.210 Traffic Control (2 Class, 3 Lab Hrs/Wk)
Term Units 3 Traffic low enforcement, regulation and control, fundamentals of traffic accident
5.212 First Aid (2 Lab Hrs/Wk)
Term Units 1 A closs in standord First Ald procedures and techniques designed to meet graduation
requirements of oll students as well os adults who wish to secure first aid training Upon a successful completion of course, a standard First Aid card may be sacured.
5.213 First Aid (2 Lab Hrs/Wk)

Term Units 1
Term Units 1
5.214 First Aid (2 Lab Hrs/Wk)
5.216 Criminal Investigation (3 Class Hrs/Wk) Term Units 3 Fundamentals of investigation; crime scene search; sketching and recording; collecFion and preservation of physical evidence; seientifie oids; modus operandi; source
tion information; interviews and interrogation, follow-up and case preparation.
5.217 Criminal Investigation (3 Class Hrs/Wk)

Term Units 3 Contimuation of 5.216 including collection and preservotion of physical evidence; follow-up and cose preparation.
5.218 Criminal Investigation (3 Class Hrs/Wk)

Term Units 3 A continuotion of Criminal Investigation 5.217.

Term Units 3
5.220 Patrol Procedures (2 Class, 3 Lab Hrs/Wk) Purpose of potrols - perception and observation- protection - prevention -
suppression - identification ond apprehension - types of patrols - purpose suppression - identification and apprchension - types of patrois - action to be taken officers opproach on foot - in on outo - home, building or room - operation of motor vehicle.
5.222 Criminal Evidence (2 Class, 3 Lab Hrs/Wk)

Term Units 3 The kinds and degrees of evidence and the rules governing the odmissibility of evidence in court.
5.226 Firearms (2 Lab Hrs/Wk)

Term Units 1 The moral aspects, legal provisions, safety precautions and restrictions covering the use of fircorms; firing of the side-
Combined lecture and laboratory (range),
5.227 Firearms (2 Lab Hrs/Wk)

Term Units 1
5.228 Firearms (2 Lab Hrs/Wk)

Term Units 1
5.230 Field Work (2 Lab Hrs/Wk)

Term Units 1 Actual field practice (as a member of the Campus Police) in traffic control,
buildings and arounds security, crowd contral at campus functions; further practice in police report writing, communications and maintenance of records; civil service procedures.
5.231 Field Work (2 Lab Hrs/Wk)

Term Units 1 A continuation of Field Work 5.230

Term Units 1
5.232 Jail Procedures (2 Lab Hrs/Wk)
of prisoners and Bosic instruction covering the receiving, booking, and searching of prisoners and
their care and custody; the lows relative to commitments, holding orders, and worronts; duties and responsibilities of the officer as outlined in the low regorning

## Technical-Vocational and Adult Course Descriptions

5.234 Problems of Physical Evidence (2 Class, 3 Lab Hrs/Wk) Term Units 3 Techniques of locating, collecting, and identifying physical evidence. Use of fingerprinting, casts and molds, photography, and sketching. Basic faboratory
nce process.
5.236 Juvenile Procedures (2 Class, 3 Lab Hrs/Wk) Term Units 3 The orgonization, functions, and jurisdiction of juvenile ogencies; the processing
and detention of juveniles; juvenile case disposition; juvenile stotutes and court procedures.
5.238 Criminal Law (3 Class Hrs/Wk)

## Term Units 3

A continuation of Criminal Law 5.208 .
Term Units 3
5.240 Report Writing (3 Class Mrs/Wk)

This is a course which supplies knowledge of the principles of composition and basic forms of writing reports. The subjects covered are: why reports are written, types of reports, makeup of reports, effectiveness of writing styles, gathering of
facts for a report, planning a report, method of writing a report, layout and facts for a report, planning a repart, method
typing of a report, and visual aids in a report.
5.501 Professional \& Vocational Relationships

Class Hrs. 78 This course consists of studies to aid the student to understond herself and her
relationship with other people, especiolly patients and fellow workers. it presents the picture of her personal health in relationship to hersalf and the health of the community. This section also touches on nursing, past, present and future and its legal ospects. Prerequisite: Registration in the Practical Nurse progrom,
5.502 Nursing Care in Conditions of IIIness

Class Hrs. 129
This course consists of studies of anatomy and physiology, the nutritional needs and conditions of the human body's system. It includes the principles of nursing care
of mothers, infants and children, medical and surgical conditions and mental of mothers, infants and children, medical and surgleal conditions and mental
illiness. It also covers study of rehabilitation and of the prevention and control iliness. It also covers study of rehabilitation and of the prevention a
of disease. Prerequisite: Registration in the Practical Nurse program.
5.503 Normal Health, Growth \& Development

Class Hrs. 128 This course consists of studies of the causes, symptoms and treatment of disease
of the healthy body with meal planning, and the growth and development of the human being from gestation thrcuah childhood, adulthood and into the aging orocess. This study covers physical, mental and emotional aspects. Prerequisite:
Registration in the Practical Nurse program.
504 Nursing Skills
Class Hrs. 181 This course consists of studies, and practice and demonstration, of the principles and methods used in the physical care of the sick. Prerequisite: Registration
5.525 Clinical Practice

Approximately 1232 Hours This consists of the actual nursing care in the hospital. It is divided into the following Hospital Organization \& Nursing Procedure Surgical Nursing
Medical Nursing

80 Hours
Obstertical Nursing (Including New Born) Padiatric Nursing
Geriatrics \& Long-term ItIness
Central Supply
256 Hours
256 Hours
256 Hours
256 Hours
28 Hours
64 Hours
6.101 Plane Surveying (1 Class, 4 Lab Hrs/Wk)

Term Units 3 A beginning course in surveying techniques designed to give the student on underA beginning course in surveying techniques designed to give the student on under-
starding of tuments of chaining and leveling, care and odjustment of
surveying instruments and office orocedures. Provision is made by appropriate surveying instruments and office orocedures. Provision is made by appropriote
field wark for proctical application of the techniques learned. Prerequisite: Mathematics 4.202 or equivalent.
6.103 Plane Surveying (1 Class, 4 Lab Hrs/Wk)

Term Units 3 A continuation of Plone Surveying o. 101 designed to familiarize students completely
with the engineer's transit. Uses of the transit are considered ond practical problems With the engineer's transit. Uses of the transit are considered and practical problems put the theory into practice. Prerequisites: Technical Mathematics 6.261 and concurrently.
6.107 Strength of Materials (2 Class, 3 Lab Hrs/Wk) Term Units 3 A study of the stresses and strains that occur in bodies when subjected to tensile, compressive and shearing forces, including the common theory of beoms. The
distribution and magnitude of stresses are examined in welded and riveted joints, thin wall cylinders, torsional members and beams. Practice problems emphasize the materials studied. The laboratory phase of this course covers: Testing of principal construction materials; the major testing machines and their calibrotion.
Applied Mechanics 6.109 and Technical Mathematics 6.266 should be taken concurrently.
6.108 Materials of Construction (2 Class Hrs/Wk) Term Units 2 Comparisons of various materials, their source, method of manufacture, physical and Comparisons of various materials, their source, method of manufacture, physical and countered in construction work.
6.109 Applied Mechanics (2 Class, 3 Lab Hrs/Wk) Term Units 3 The course consists of a study of energy at rest (equilibrium). This includes resolution of forces, equitibrants of forces in one plane, simple machines, and equillibrants
of nonconcurrent forces. Time is provided for demonstrations and experiments to of nonconcurrent forces. Time is provided for demonstrations and experiments to
help clarify the principles and procedures covered. Prerequisite: Technical Mathehelp clarify the principles and procedures covered,
matics 6.262 and Applied Physics 6.371 or equivalent.
6.110 Construction Estimating (2 Class Hrs/Wk)

Term Units 2 The student is helped to develop skills in estimating the amount and cost of materials required and labor cost involved in various types of construction. An
opportunity is provided for the opplication of these skills by requiring the student to make estimates of material and labor quantities and costs for representative type of construction. Prerequisite: Fifth term standing or permission of instructor.
6.111 Applied Mechanics II (2 Class, 3 Lab Hrs/Wk)

Term Units 3 A study of energy in motion. The course covers the principles of friction, centroids, inertial choracteristics, motion and velocity, force ond acceleration, curvilinear motion and rotation, and advanced concepts of work, power and energy, Time is provided for demonstrations and experiments to help, clarify the principles

## Technical-Vocational and Adult Course Descriptions

6.112 Hydraulics I (3 Class Hrs/Wk)

Term Units 3 The first course in the study of hydraulics covers the fundamental properties of fuids, principles of hydrostotic pressure - including Pascal's Low, the hydrostatic
Parado. the Archimede's Principle - measurement by monometer, the measureParadox, the Archimece's Principle measurement by manometer, the measure-
ment of fluid properties. The relationship of hydrostatic pressure ond center of grovity and the effect of hydrostatic pressure exerted ogainst plane surfaces will also be discussed Time is provided for demonstrations ond experiments to 6.371 and Technical hele ond procedures covered. Prerequisites; Applied Physics 6.37 and Technical Mathematics 6.266 or equivalent.
6.114 Hydraulics II (3 Class Hrs/Wk)

Term Units 3 The second course in hydraulics consists of the fundamentals of fluid flow,
Bernoullil's theorem, flow profiles, stream restrictions (such os weirs, flumes metering runs), distribution of energy in the stream, flow through pipe, Reynold's Low, Newton's Laws of hydradynamics, vector representotion, hydroulic similitude to help clarify the principles and provided for demonstration and experiment 6.112 or cquivalent.
6.115 Electrical Mathematics (3 Class, 2 Lab Hrs/Wk)

Term Units 4 An opplied course in mathematics for electronic engineering technicians. Includes ectronic and electrical circuits. Prerequisites. Techital Mathematics 6.266 or equivalent.
6.118 Contracts and Specifications (3 Class Hrs/Wk)

Term Units 3 This is a course designed to oequaint the student with common usage and practice in the preparation of controcts and oftendant specifications. Examination of existing contracts covering current jobs will be used whenever possible with practical
problems designed to teach the application of theory learned. Prerequisite problems designed to teach the opplicotion
Second year standing or approval of instructor.
6.120 Foundations of Structures (3 Class Hrs/Wk)

Term Units 3 Austudy of various moterials, devices, and designs used in structural foundations such os footings, cofferdams, coissons, abutments, piers, and underpinnings, pre.
requisites: Applied Mechanics 6.111 and Teclinical Mathematics 6.266 or equivalent.
6.122 Construction Codes (2 Class Hrs/Wk)

A study of the required practices as stated in local stote and ferm Units 2 tion codes.
6.123 Concrete Construction \& Design (2 Class, 5 Lab Hrs/Wk)

Term Units 3
Theory of designing: retaining walls, combined irregular ond pile footings, combined structural elements of combined span ceis oncrete bridges, ultimate strength deslon,
concrete.
Prerequisite: Applied Mechanics 6.109 and Technical N.athematics 6.266 or equivalent.
6.124 Soil Mechanics (2 Class, 3 Lab Hrs/Wk)

Term Units 3 Physical and mechanical properties of soil; specific grovity proin size distribution,
plosticity, shrinkage, permeobility, compressibility, consolidation and shear chorocteristics. Analysis with respect to stobility of slopes, earth pressures, chordistribution, and setflement carrying capacity. Prerequisite: second year standing
6.125

Timber and Steel Constr. (3 Class, 3 Lab Hrs/WE) dementary design principles of steel and wooden structures. The Term Units 4 frents and connectors and physical and chemical characteristics of materials. Prerequisites: Structural Analysis and Desion 6.130 or equivalent
6.126 Technical Report Writing (3 Class Hrs/Wk)

Term Units 3 This is a course which supplies knowledge of the princloles of composition ond bosic of reports, make-up of reports, effectiveness of writing stylas, gatherlng of tact for a report, planning a report, method of writing a report, tayout ond typing-o a report, and visual aids in' a report. Prerequisite:
equivalent.
6.127 Practical Descriptive Geometry (4 Lab Hrs/Wk)

Term Units 2 This course gives a briaf view of advanced drafting problems and takes the student further into the tield of descriptive peometry principles. In the production of detailed drawing, from ossembly drowing, the principles of Descriptive Geometry are
necessary to the skilled draftsman. Prerequisites: Third term standing or opproval necessary to the slefl
6.128 Strength of Materials (2 Class, 3 Lab Hrs/Wk)

Term Units 3 This is a continuation of Strength of Materials I. In addition to advanced theory in the areo of materials characteristics, field trips will be taken to enoble the student to observe use of different materials in actual instaliations. A continuation
nf material testing is included in the laboratory. Prerequisite: Strength of Materials 6.107 of equivalent.
6.130 Struct. Analysis \& Design (1 Class, 3 Lab Hrs/Wk) Term Units 2 The course deais with the determination of stresses induced by loads on structure of wood, steel, concrete, silections of appropriate structural members and suitable connections; looding conditions causing compression, tension, shear, torsion, and bending; practical design procedures, relating to various, structural members,
beams, girders, columns and footings. Prerequisites: Applied Mechanics 6.109 beams, girders, columns, and footings. Prerequis
6.131 Mapping and Computing ( $4 \mathrm{Lab} \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 2 Advonced map plotting, earthwork computation, field surveying from maps; lega descriptiont, subdivision planning and simulared problems of construction are used.
Prerequisites: Surveving Computations 6.500 and Technical Mathematics 6.266 or equivalent.
6.133 Mapping and Computing ( 6 Lab Hrs/Wk)

Term Units 2 Advanced earthwork computation; office procedure; government surveys; Surveying ans computing 6 , 131 or equivalent.
6.135 Engineering Problems ( 2 Lab Hrs/Wk)

Term Unit 1 This course oft study in engineering problems is one In which the student is instructed The course is intended to train the student to orgonize his work and study habits. in elear, concise form so that they can be interpreted. Prerequistes: One year of
high school algebra or equivalent.

## Technical-Vocational and Adult Course Descriptions

6.136 Engineering Problems (2 Lab Hrs/Wk)

Term Unit 1 Thls course alms to develop the skill of gathering togather and sorting research results and problems solving records Into lopical summotion. Mathematical and
graphical analysis of data will be emphasized in the presentation of information in graphical analysis of data will be emphosized in the p
the report. Prerequisite: Engineering Problems 6.135 .
6.200 EIectrical Theory (DC) (3 Class, 2 Lab Hrs/Wk)

Term Units 4 Presents an introduction to electronics on the basis of direct currents with an emphosis on contemporary techniques as a supplement to basic concepts. Covers the princi-
ples of electron physics, unidirectional current and factors offecting its magnitude, series-circuit analysis, parallel-circuit analysis, series-parallel circuit onalysis, complex unidirectional-current circuits, the phenomena of magnetism and electro-magnetism Inductance and its characteristics of capacitance, and electrical measurement in
struments. Prerequisites: High school algebra or equivalent.
6.202 Electrical Theory (AC) (3 Class, 2 Lab Hrs/Wk)

Term Units 4 A continuation of clectrical theory on the bosis of alternating currents with on the analysis of the sine wave, series circults with a sine wave input, series resonance parallel circuits with o sine wave input, parallel resonance, the nonresonant and
the resonant tronsformer and atternators and pads. Prerequisites: Second term
standing or approval of the department head. standing or approval of the department head.
6.204 Electrical Circuits (3 Class Hrs/Wk)

Term Units 3 A continuation of electrical theory with an emphasis on the analysis of the chartional woveforms, complex waveform analysis of series R-C circuits, waveform analysis of series R-L. circuits, and waveform analysis of combined networks. Prerequisite: Third term standing or approval of deportment head.
6.205 Electrical Circuits Lab ( 6 Lab Hrs/Wk)

Term Units 2 Practical application of the theory studied in Electrical Circuits. Involves the con struction and testing of passive filter networks including the constont $k$, the serles m-derived, and the shunt m-derived types. Response square-wave, trlangular-wave sow-tooth-wove, and rectangular-wave pulses is analyzed. Varlous $\mathrm{R}-\mathrm{L}-\mathrm{C}$ combina tlons are designed and tested for low and high-frequency response, rise and fal times are measured, and integrator and differentiator circuits are constructed and
analyzed. Prerequisites; Third term standing or approval of department head.
6.210 Vacuum Tube \& Transistor Analysis (3 Class Hrs/Wk) Term Units 3 An introductory course to the analysis of the electrical characteristics of vacuum tubes and tronsistors. Includes a review of electron physics with emphasls on electron devices including hot and cold-cathode vacuum and gas diodes and semiconductor diodes; three-element vacuum tubes and transistors; multiogrid tubes in cluding tetrodes, pentodes, and beam-power tubes; speciol tronsistors and dlodes formers, and relays, and a review of several electronic circuits Involving serles and parallel resonance, bandwidth, and coupled-circuit theory. Also covers elementary filter design, harmonic onalysis, network theorems, and faur-terminal networks Prerequisites: Third term standing or approval of department head.
6.211 Vacuum Tube \& Transistor Analysis Lab. (3 Lab Hrs/Wk)

Term Unit 1 Practical application of the theory studied in Vacuum Tubes and Transistor Analysis. nvolves the disossembling of diodes, triodes, tetrodes, pentodes, ond muligrid tubes, and transistors to observe their construction. Also includes the plotting of the are used to determine the transconductance, the amplification factor, and the plateesistance of vacuum tubes and the current-goin of junction transistors in various circuit configurations. The operation of the Thyratron is tested with A-C and D-C plote voltages, using a phase-shifter for grid-control. Includes the testing of Zener and double-bosed diodes and special transistors such os the PNPN. Transand over-coupled coils. Goin of amplifiers is computed in decibels and auxiliary audio elements such as microphones, speakers, and tape-recorders are reviewed. Prerequisites: Third term standing or approval of department head.
6.212 Oscillator Circuits and Design (2 Class Hrs/Wk)

Term Units 2 A continuation of vacuum tube and transistor onalysis. Involves the study of singlephose rectifier circuits and filters with calculation of the ripple-factor. Introduces Various types of feedback oscillators including the Hortley and Colpitts are onalyzed. Covers negative-resistance oseillators, miscellaneous sine-wove oscillators, nonand FM modulation and detection are studied and the theory and application of the cothode-ray oscilloscope is included. Prerequisltes: Fourth term standing or approval of department head.
6.213 Oscillator Circuits and Design Lab. (6 Lab Hrs/Wk) Term Units 2 Practical application of the theory studied in Oscillator Circuits and Design. Invalves ment of the D-C output and ripple-voltage. Includes the construction and testing of Hartley, Colpitts, Armstrong, electon-coupled, crystal, tri-tet, phose-shift, Weinbridge, and other types of feedback and negative-resistonce oscillators. Grid, cath. ode, screen and plate AM madulation are tested and checked for percentage by
means of an oscilloscope. The reactance-tube modulotor is constructed and tested mecns of an oscilioscope. The reactance-tube modurator is constructed and fested comparisons are made with Lissajous' patterns and Z-axis modulation. Applications and proper techniques for use of the oscilloseope ore also included. Prerequisites:
Fourth ferm standing or approval of department nead.
6.214 Amplifier Circuits and Design (3 Class Hrs/Wk)

Term Units 3 A continuation of oscillator circuits and design, Covers the opplication of vacuum tubes and tronsistors in amplifier circuits. Analyzes the vacuum tube amplifier into its basic and equivalent circuit. Includes load-lines, distortion, and pentode and configurations and covers biasing methods. Aiso includes transformer analysis, transformer-coupled amplifiers, and R-C coupled amplifiers. Special amplifiers using vacuum tubes and tronsistors are studied. Ineludes push-pull circuit onalysis and phase inversion; Class-C omplifier analysis, and high-frequency amplifiers. Pre-
requisite: Fifth term standing or approval of department head.

## Technical-Vocational and Adult Course Descriptions

6.215 Amplifier Circuits and Design Lab. (6 Lab Hrs/Wk) Term Units 2 The opplication of theory studied in Amplifier Circuits and Design. Involves the design, construction, and testing of various types of vocuum type and translstor
amplifiers employing direct, transformer, ond R-C coupling. Several push-pull circuits utilizing different types of phase inverters are builf and tested and the principle of complementary symmetry is demonstrated in the operation of transistors in push-pull. closs-C power amplifiers are constructed ond odjusted for propel operation and different typess of high-frequency omplifiers are also built and tested.
Prerequisites: Fifth term standing or opproval of department head.
6.216 Advanced Electronic Circuits (2 Class, 3 Lab Hrs/Wk) Term Units 3 A course designed to simulote problems in industry, Covers six electronic oreas including computors, communications, industrial controls, electronics, microwaves,
and radar. Closs meetings and radar. Class meetings involve overvlew of each area and study of current problems and opportunities. department head.
6.218 Industrial Electronics (2 Class, 3 Lab Hrs/Wk)

Term Units 3 An introductory class and laboratory course covering the principles and applications
of electronics in industry. involves a review of the principles of $\mathrm{D}-\mathrm{C}$ motors and of electronics in industry. involves areview of the principles of D-C motors and
eenerators, and covers D - C motor controls with emphosis on elcetronic controls oenerators, and covers D-C motor controls, with emphosis on electronic controls.
Also covers relays and time-delay circults; industrial photo-electric control ond typical applications; electronic power-controf with saturable-core reactors and the amplidyne; and the electronic control of welding. Prerequisites: Fifth term standing
or approval of department head.
6.220, 6.221 Introduction to Electronics I and II (3 Class Hrs/Wk)

Term Units 3 The course consists of a study of the basic principles of electronics and electricity
as will os opplications which the student moy encounter. While the student is not as well os opplications which the student moy encounter. While the student is not
able to obtain knowledge which may prove helpful either occupationally or be of assistonce in understanding those devices with which he may come in contact.
6.228 Industrial Television (2 Class, 3 Lab Hrs/Wk) Term Units 3 A theory and lab course designed to cover television systems, scanning and synchronization, composite tideo signal, frequency-modulation, folevision receivers and video amplifers, brightness-control and d-c reinsertion video detection automatic gain-control and sync-separation, and defiection oscillotor and armplifier circuits. Prerequisites: Fifth term standing or approval of department head.
6.234 Wave Generator and Shaping (2 Class, 3 Lab Hrs/Wk) Term Units 3 A class and laborotory course designed os an Introduction to pulse techniques applications, nomenclature, importance of pulse shapes, and responses of frequencyselective circuits to pulses. Includes the theory ond operation of limiter and cllpper circuits, differentiating ond integrating eirculits, and D-C restoration. Various muitl-
vibrator circuits, synchronization circuits, and apolications of multivibators are vibrator circuits, synchronization circuits, and applications of multyvibrators are
studied. Also covers blocking oscillators of several types, their principles of operatlon, and application. Prerequisites: Fourth term standing or approval of department head.
6.235 Industrial Television (1 Class, 2 Lab Hrs/Wk)

Term Unit 1 A theory and loboratory course covering closed-circuit television systems, pieture transcomera video amplifier systems, camera sync and defiection generators, and several types of commercial industrial cameras with emphosis on circuit analysis, set-up procedure, operrotion and adjustment. Prerequisites: Sixth term standing or approval of department head
6.236 Servo Systems (1 Class, 3 Lab Hrs/Wk)

Term Units 2 Presents the principles of servo and dato transmission systems with emphasis on
fundamentals. Covers control systems and servo-mechanisms, entementary forms of control systems, servo systems, synchros, servo element, electronic and magnetic amplifier, direct current servomotors, performance improvers, methods for servos and meossurement, ond examples of servos and servo systems.' Prerequisites: Fourth term standing or opproval of department head.
6.240 Electronic Data Processing (3 Class Hrs/Wk)

Term Units 3 An introduction to the prineiples of elecetronic digital computers. Covers the oppllication and programming of computers in business, industrial, and scientific organ-
izations.
Reviews the decimal ond binary numbering systems os they retote to computers; analyzes computer circuitry with emphosis on transistor and diode switching circuits; presents the fundomentals of logical design with on introduction to Boolean Alobira and the use of block diagrams; analyzes the major divisions of a digital computer in terms of the orithmetic element, the memory element, input
and output devises, and the control element. Prerequisites: Fifth term standing or approval of department head.
6.242 Microwaves (2 Class, 3 Lab Hrs/Wk)

Term Units 3 A theory ond laboratory, course designed as an introduction to microwaves. Begins
 development of waveguides and microwove circuitry. Covers UHF transmission meassurements. Tronsmission of microwove energy through waveguides is onalyzed and the TE and TM modes of transmission are studied. Various types of waveguide plumbing including choke joints, directional couplers, flap-attenuators, horns, gulde partitions, ond tlexible waveguides are studied. Includes also cavity resonators, high-frequency oscillotors, magnetron and klystron oscilarors, the resonator traveling
wave tubes, and other high-frequency tubes and devices. Various types of UHF and microwave antennas and receiver clrcuitry are included. Mlcrowave measurements involve the use of thermocouple voltmeters, bolometers, cavity wovemeters,
slotted lines, and directional couplers. Prerequisites: Sixth term standing or approval slotted lines, and directional couplers. Prerequisites: sixth term standing or approvai
of department head.
6.244 Automation Systems (3 Class Hrs/Wk)

Term Units 3 This course is devoted to the study of the techniques of outomotion. Introduces the baste concepts of outomation and covers automatic controls, pneumotic control devices, hydraulic control devices, and electronic and electric control devices. Tho
application of automation is studied from examples in the oreas of materiols handling applitation of automation is studied from examples in the oress of moterials handling
and assembing, protuction of metals, meto! casting processes, mechonical wworking of metols, pressworking of metals, metal cutting operations, heat treating of metals, metol joining operations, ond inspection and quality control.' Prerequisite: Sixth term standing or approval of department head.

## Technical-Vocational and Adult Course Descriptions

6.246 Industrial Electronics (3 Class Hrs/Wk) Term Units A continuation of industrial electronics with emphasis on $A-C$ principles ond appli-
cations in industry. Covers alternating
current characteristics, generotion of $A-C$ cations in industry
vector diagram analysis, properties of electric circuits, and graphical representation of resistance, reactance and impedance. Single-phase cirrevits ore analyzed in terms of power foctor, and three-phose wee and delta combinations are studied. Also includes transformers ond regulorors, alternating-current generators, polyphase induc
tion motors, synchronous motors and self-synchronous devices, single-phose motors circuit-protective ond switching equipment, electrical instruments and electrica measurement. Prereauistes: Sixth term standing or approval of department head.
6.247 Industrial Electronics Lab ( 3 Lab Hrs/Wk)

Term Unit 1 The practical application of the theory studied in Industrial Electronics 6.246. Alter-
noting-current theory and principles are verified by the construction ond testing of noting-current theory and principles ore verified by the construction ond testing of
circuits involving series resistance, inductance, and copacitance. Phosc-angle, reoctance, and impedance ore colculated and chécked, and vector diagrams are drawn to show current and voltage relationships. Three-phoso transformers are wired in various deita-wye combinations and output voltapes are calculated and verified Smoll transformers are designed to deliver specitied outputs. Alternating-current
generators, poly-phase induction motors, synchronous motors, selsyn transmitters and receivers, and single-phase motors of all types are disassembled and thelr construction studied. Various circuit-protective and switching equipment are connected from a test panel to motors and tested. All types of electrical measurin equipment ore tested by appllication and a D-C, A-C vacuum tube voltmeter is constructed and tested. Prerequisites: Sixth term standing or approval of depart ment head
6.261 Technical Mathematics (3 Class, 2 Lab Hrs/Wk)

Term Units 4 This is on applied course in mathematics on the technician level, covering the slide mental aloebraic operations, system of linear equations, functions and graphs, advanced applications of exponents and radicals, and quadratic equations in one unknown. Prerequisites: High school algebra or equivalent.
6.262 Technical Mathematics (3 Class, 2 Lab Hrs/Wk)

Term Units 4 This is an applied course in mathematies on the technician level, including logarithms, vectors, trigonometric formulos, identlties and equations and graphs of trigonometric functions. Prerequisite: Technical N.athemotics 6.261 or equivalent.
6.266 Technical Mathematics (3 Class, 2 Lab Hrs/Wk)

Term Units 4 This is an appled course in mathematics on the technitelon level, covering simultaneous quadrotic equations, rotio and proportion, binomial theorem, arithmetic
and
geometric and geometric progressions, mathemarics of investmen, exponential unictions, complex notation
6.370 Applied Physics (3 Class, 2 Lab Hrs/Wk)

Term Units 4 Physical laws and theories and mechonical principles, including mechanics of
measurement, properties and structure of matter, solids, liquids, and gases, simple measurement, properties and structure of matter, solids, liquids, ond gases, simple mochines, work, power, and energy are studied, Laboratory time is provided in class. Prerequisltes: Technical N.athematics 6.261 or equivalent. May be taken concurrently.
6.371 Applied Physics (3 Class, 2 Lab Hrs/Wk)

Term Units Covers principles of heat, light, and sound, including the study of temperature and eration, air conditioning, sound, chonge of state, heot transfer, heat engines, refrig time is provided for demonstrations and experiments to clarify principles ond pro cedures covered in closs. Prerequisite: Applied Physics 6.370 or equivalent.
6.401 General Forestry (2 Class, 4 Lab Hrs/Wk)

Term Units 3 This course is an introduction to American forestry and past forest practices. The laboratory periods are devated to the teaching of the use and handling of the tools
used in torestry including the staff compass chain, obney, diameter tope, Biltmore used in forestry, including the
sticks, and drafting instruments.
6.404 Forest Engineering 1 (2 Class, 4 Lab Hrs/Wk)

Term Units 3 This is a beginning course in forest engineering methods ond procedures. Hoth the laborotory ind classroom are used to iove the student a proficiency, in the use of surveying instruments in such practical field work as grade lines ""p" line, retraceof aerial photograph
6.405 Forest Engineering II (2 Class, 4 Lab Hrs/Wk)

Term Units 3 Ensirieering procedures and methods with special emphasis on road location and the rectangular survey system. This course correlates closely with the beginning course in Forest Operations so that the student may ossociote the engineering with the
plonned construction result.
6.406 Forest Engineering III (2 Class, 4 Lab Hrs/Wk) Term Units 3 The student is troined to o working proficiency in plonning and pursuing forest sur-
vey work with all instruments presently ovailoble. Proiects in special surveys such os vertical and horizontal control for oerial photographic mops, construction and site os vertical and horizontal control for oeriol photographi
su:veys are used to promote standords of performance.
6.407 Forest Mensuration I (2 Class, 4 Lab Hrs/Wk) Term Units 3 This course is a beginning course in the measurement of forest products including
6.408 Forest Me

Forest Mensuration II (2 Class, 4 Lab Hrs/Wh) Term Units 3 This course deals with more advanced methods and concepts in forest measurement
including the use of prisms, forest inventory procedures and type mapping emphasizing the use of acrial photographs and individual proficiency in obtaining accep-
6.409 Forest Protection (2 Class, 3 Lab Hrs/Wk)

Term Units 3 A study of the ggents of forest destruction, the methods, agencies and equipment
used in their prevention and suppression. This Includes the study of the control used in their prevention and suppression. This Includes the study of the control measures applied to fire, insects, disease, wildifife, and domestic onimals. The lab-
oratory periods are devofed to the observation and practice of control measures and oratory periods are devoted to the obser
surveys to identify the damaging agent.
6.410 Forest Operations I (2 Class, 4 Lab Hrs/Wk)

Term Units 3 This is the first of a three-term series dealing with the production and utilization of orest products. The first term covers logging transportation systems including road
construction.
6.411 Forest Operations II (2 Class, 4 Lab Hrs/Wk)

Term Units 3 The second of a three-part series covering logging, forest nursery, plonting and seedine second of a three-part series covering logging, for

## Technical-Vocational and Adult Course Descriptions

6.414 Forest Contracts (3 Class Hrs/Wk)

Term Units 3 The student is traght the elements of the various types of forest contracts. Also the individual roles in the administration of contracts to obtain the desired manageministrators, the records, and octions which may or may not be taken.
6.416 Photogrammetry and Photo Interpretation (2 Class, 3 Lab Hrs/Wk)

This is a beginning course in the field use ond field control of aerial photographs.

### 6.450 Technical Chemistry (3 Class, 3 Lab Hrs/Wk)

Term Units 4 An introduction to chemistry including a description of otoms ond how they combine
to form compounds, the stotes of motter, and a description of the chemistry of hydrogen and oxygen.
6.452 Technical Chemistry (3 Class, 3 Lab Hrs/Wk) Term Units 4 The second term of Technical Chemistry covering: the chemistry of solutions, descrip-
tive chemistry of the metols and nonmetais, ond electrochemistry
6.454 Technical Chemistry ( 3 Class, 3 Lab Hrs/Wk)

Term Units 4 The third term of chemistry covering, organic chemistry, The chemistry of: functional
groups of both aikyl and amyl compounds, stereochemistry, and the chemistry of groups of bules.
6.500 Surveying Computations (1 Class, 4 Lab Hrs/Wk) Term Units 3 A review of trigonometry and logarithms with application to surveylng. The course
includes: Computing machines, planometers in application to irregular oreas, calcuinations relating to traverses, subdivision of land and stadia. Survey plotting is also cotions relating to traverses, subdivision of land and stadia. Survey platting is also
covered. Prerequisites: Plane Surveying $6.101,6.103$ and Technical Mathematics
6.262 .
6.550 Introduction to Aviation (3 Class Hrs/Wk) Term Units 2 Basic aerodynomics, aircroft engines, preflight procedures, airground communica-
tlons and federol regulations for the private pilot.
6.560 Air Navigation (3 Class Hrs/Wk)

Term Units 2 Cross country flight planning, navigation, radio navigotion meteorology ond related FAA regulations for the private pilot. Satisfactory completion of this course
should qualify the student for the FAA Privote pilot written examination.
6.570 Aerodynamics (3 Class Hrs/Wk)

Term Units 3 Airplane performance and stobility. Aircraft loading, flight dynamics, integrated theory of engines in flight with related problems of maintenonce and safety control.
Applicable FAA requiation.
Prerequisite: 6.550 or instructor approval.
6.5\%1 Aeronautics and Meteorology (3 Class Hrs/Wk) Term Units 3 Adanced study of air navigation with related meteorology. Modern navigation
 the student to take the FAA Commercial Pilot written examination.
6.572 Instrument Flight I (3 Class Hrs/Wk)

Term Units 3 Aircraft equipment, navigation charts, flight planning, weather reports and forepilot license or instructor approval.
6.573 Instrument Flight II (3 Class Hrs/Wk)

Term Units 3 Operating in an oir traffic control environment. Departure and approach tech. completion of this course the student should be prepared to toke the fAA written completion of this course the stude
6.574 Flight Familiarization I (3 Class Hrs/Wk)

Term Units 1 Bosic training including at least 12 hours in dual instruction ond flight observer
plus related oround Instructions to enable the student to operate the aircraft through plus related ground instructions to enable the student to operate the aircraft through
basic maneuvers.
6.575 Flight Familiarization II (3 Class Hrs/Wk)

Term Units 1 Basic training including ot least 12 hours commond flight and observer time plus related ground instruttion to enable the student
flight. Prerequisite: 6.574, Flight Familiarizotion.
6.576 Flight Training I (72 Lab Hrs)

Term Units 2 Advanced instruction including 10 hours dual flight, 20 hours solo flight and solo flight under all normally anticipated conditions. Prerequisite: Flight Familiarizotion it or equivalent.
6.577 Flight Training II (72 Lab Hrs)

Term Units 2
Advanced instruction including 15 haurs dual flight, 35 hours solo flight ond relared ground instruction to prepare the student for transition into more complex Flight Troining | or equivalent. country and night flying expericnce Prerequisite:
6.578 Flight Training III (72 Lab Hrs)

Term Units 2 Advanced instruction including at least 18 hours dual flight, 24 hours solo flight
ond related ground instruction to familiarize the student with IFR
operating procedures and to develop proficiency in precision maneuvers.
6.577 Flight Training ilf
6.579 Flight Training IV (72 Lab Hrs)

Term Units 2
Advanced instruction, including 18 hours dual flight, 24 hours solo flight and related ground instruction. Sotisfoctory completion of this course should qualify
the student for the FAA Commercial Pilot ond Instrument Roting Examinations. Prerequisites: 6.578 Flight Troining III.
6.900 Data Processing Fundamentals (3 Class Hrs/Wk)

Term Units 3 An introduction to the field of Data Processing including history, basic concepts,
 applications.
6.901 Data Processing Fundamentals (2 Class, 2 Lab Hrs/Wk)

Term Units 3
An introduction to the theory and operation of digital computers including basic theory and concepts, input and output, storage devices, central processing unlts, pragramming systems, operating systems and procedures and an introduction to
o problem oriented longuage.
6.902 Systems and Procedures I (1 Class, 4 Lab Hrs/Wk) Term Units 3 An infroduction to systems and procedures ineluding organizational theory,
documentation, coding and card design, form design and control, graphic devies, feasibility studies, work analysis, and applications.
6.903 Introduction to Programming (3 Class, 2 Lab Hrs/Wk) Term Units 4 Progromming concepts, progromming systems, programming a computer in a subjects oriented language (Fortron or PL/I).
6.904 Systems and Procedures II (2 Class, 4 Lab Hrs/Wk) Term Units 3 A continuation of Systems and Procedures I with emphasis on case studles and student projects.
6.905 Intermediate Programming (2 Class, 4 Lab Hrs/Wk) Term Units 3 Development of programming skills in a second language (COBOL and/or RPG).
6.906 Data Processing Management (3 Class Hrs/Wk)

Term Units 3 Bosic management concepts, organization of dato processing, staff, facilities, hard ware, documentation, operations, control, cost analysis, monogement systems, management case studies and projects.
6.907 Advanced Programming (2 Class, 4 Lab Hrs/Wk) Term Units 3 Emphasis on assemblers, operating systems, control languages, special language systems and applications.
6.908 Special Problems in Data Processing
(1 Conf, 3 Lab Hrs/Wk) Term Units 2 Individual problems and projects designed to meet the needs of the student.
6.909 Computer Operations (2 Class, 4 Lab Hrs/Wk) Term Units 3 Basic concepts and procedures, computer operotions, peripheral devices, operating systems, terminals, timesharing, operational management, operations projects.
6.911 Computer Applications (2 Class, 4 Lab Hrs/Wk)

Term Units 4 The applications of electronic computers to the solution of data processing in such areas as inventory cantrol, sales, analysis, payroll, production scheduling, banking. insurpnce, utilities, government, and monufacturing. prerequisite: introduction to Programming
ment heod.
6.912 Business Statistics (3 Class Hrs/Wk)

Term Units 3 A practical ccurse in the use and interpretation of statistics incorporating elementary statistical concepts, frequency distribution onalysis, index numbers, use of tables, charts, ond graphs, sampling error theory, statistical distributions ond their measure4.204 or approval of department head.
6.913 Introduction to Electric Accounting Machines
(2 Class, 2 Lab Hrs/Wk)
Term Units 3 Introduction to the theory, function, operation and programming of unit record equipment with particular emphasis on their use as computer support devices. Mathematics for Data Processing (3 Class Hrs/Wk) Term Units 3 Number theory and systems, functions, systems of equations, Matrices, Linear
Proigramming Concepts, Boolean Algebra, and an Introduction to Numerical Programmi
Anolysis.
7.131 Orientation to Food Services (2 Hrs/Wk)

Term Units 2 Explores the various aspects of food service occupations including iob requirements, upervision, management, purchasing, preparation and food servicc. Field trips to vorious institution kitchens are included.
7.134 Food Preparation I (3 Hrs/Wk) Term Units 3 The course includes the principles of food preparation with emphosis on the seientific principles of cookery. Demonstrations ond experiments will be presented to illustrate the effects of various ingredients, variation in preparation techniques and the critibackground for quantity foods courses for the individual interested in institution food service.
7.136 Food Preparation Workshop ( 3 Hrs/Wk, 4 Wks) Term Units 1 A short course presenting techniques used in preparing special foods for holidays or for those employed in institution food services.
7.138 Practical Nutrition (2 Hrs/Wk)

Term Units 2 This course is designed for students enrolled in practical nursing, food service Covers functians of food and Its relation to health, the various nutrients, bodily requirements, and processes involved in utilizotion of food.
7.139 Diet Therapy ( $2 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 2 The caurse is designed to give hospital cooks more background and understanding in planning. $p$
7.152 Working with Young Children in

Preschool Programs (2 Hrs/Wk) Term Units 2 This course is designed for the individual who plons to work with children in child day core, play schoon or nursery schaol situotions. Inciudes ways of working art, and music experiences and other activities useful in fostering the physical, social and emotional development of young children.
7.150 Dressmaking as a Business (3 Hrs/Wk)

Term Units 3 Deslgned for the individual who is interested in sewing for others for a profit. Alteration techniques, special construction techniques as well as the business aspects, including record keeping, advertising, customer relations, business regulations, and establishment of prices ore included.
9.005 Computer Application Workshop (6 Hrs Total)

Term Unit 1 An introduction to computer opplications in a particular occupational orea. The workshop is designed to introduce the participant to the computer concepts and methods that are a necessary prerequisite to using the computer in the particular experience with computers.

## Technical-Vocational and Adult Course Descriptions

9.100 Blueprint Reading and Sketching 1 (3 Class Hrs/Wk) Term Units 3 Introduction to Blueprint reading and basic industrial sketching.
9.110 Carburetion for Auto Mechanics (3 Lab Hrs/Wk) Term Units 1 A course providing an overall knowledge of fuel systems beginning with bosic cor-
buretion theory and circuitry to be applied to common types of carburetors, including buretion theory and circuitry to be applied to common types of carburetors, including
four borrel and multiple carburetor installations. Lab experlence is provided on refour barrel and multiple carburctor installations. Lab experlence is providead on
presentative fypes of modern corburetors. The course is oimed toward upgrading presentative types of modern corburators. The course is oimed toward upgrading
skills of students having previous automotive experience. Prerequislte: Employment skills of students having previous our
in the field and consent of instructor.
9.111 Electrical Systems for Auto Mech. (3 Lab Hrs/Wk) Term Units 1 A course beginning with bosic electrical theory and outomotive electrical system fun damentals which ore applied to starting, lgnition, and generating systems. Lob experience is provided in repair, adjusting, and testing of the various units in the
trical system. Prerequisite: Employment in the field and consent of instructor.
9.112 Tune-up for Auto Mechanics (3 Lab Hrs/Wk)

Term Units 1 An advanced course to provide students with knowledge of tune-up procedures and to develop diagnostic obilify. Lab expericnce consists of demonstration and use of modern testing and onalysis instruments.
in the field and consent of instructor.
9.116 Basic Industrial Hydraulics (3 Class Hrs/Wk) Term Units 3 The course consists of a study of the basic lows that govern hydraulic power a stuty of and moiority of industriai hydraulic componsents, their
operation, and function, and the complete basic hydraulic circuitry necessary for primary linear and rotary actuation.
9.117 Hydraulics II (3 Class Hrs/Wk)

Term Units 3 The course consists of the study of hydraulic circuitry commonly used in industry with particular emphasis on the use of A.S.A. graphic symbols and diagrams, to
analyze hydioulic circuits and diognose maifunction. analyze hydioulic circuits and diognose malfunction.
9.130 Electronics for Electricians (3 Class Hrs/Wk) Term Units 3 Course consists of study from text, "Electronics in Industry, by George Chute.
Practical discussion will amplify the text os to the up-to-date theory and applications. Prerequisite: Some knowledge of electricity, mechanics, and mathematics.
9.131 Electronics for Electricians (3 Class Hrs/Wk)

Term Units 3 A continuation of Electronics for Electricions, 9.130.
9.150 Welding (Beginning) (1 Class, 3 Lab Hrs/Wk)

Term Units 2 Instruction in setup, odiusting and operation of oxyocetylene and are welding equip.
ment. Theory of identification and selection of proper electrodes and materials. Demonstration and practice in flat and horizontal position in all basic welding joints. Students learn to cevoluate quality of welds by nick-break and ouided bend testing methods. Prerequisite: Consent of instructor and employment in the field.
9.156 Basic Slide Rule Usage (2 Lab Hrs/Wk)

Term Units 2 A course designed to give students a knowledge ond understanding of the nomen-
clature of the slide rule, the obility to use the slide rule, and an appreciotion of the slide rule as a tool in technical studies and problem' solving.
9.161 Welding (Advanced) (1 Class, 3 Lab Hrs/Wk)

Term Units 2 Advanced theory and techniques in oxyoretylene and are welding, Including the Advonced theory and techniques in oxyacetylene and arc welding, including the
inert gos shielded are welding of ferrous and nonferrous metals. Demonstrotion and inert gas shielred arc wealing of ferrous and nonferrous metolis. Demonstrotion ond ndustrial fabrication practices are also tought. Work is evaluated by both break and bend test methods. Prerequisite: Completion of 9.150 and consent of instructor.
9.166 Machine Toois Practices (1 Class, 3 Lab Hrs/Wk)

Term Units 2 A course designed to provide basic machine tool knowledge and concepts in developing an understanding of chip removal common in local industry.
9.167 Machine Tools Practices II (1 Class, 3 Lab Hrs/Wk)

Term Units 2 A continuation of first-term machine tools practices with more concentration on
skill of mochine operation.

## APPRENTICE RELATED INSTRUCTION COURSES

The following apprentice related instruction courses ore offered by the College os needed. Apprenticeship training periods vary from three to slx years according to the individual occupation. Eoch course provides related classroom instruction for insprentices registered under the oregon Low and is is related to on-the-iob troining experiences outlined in opprenticeshlp standards.
9.186 Carpenter Apprentice (5 Hrs/Wk)

Term Units $11 / 2$
9.187 Industrial Electrician Apprentice (5 Hrs/Wk) Term Units $11 / 2$
9.188 Inside Wireman Apprentice (5 Hrs/Wk) Term Units $11 / 2$
9.189 Power Lineman Apprentice (5 Hrs/Wk) Term Units 11/2
9.190 Plumber Apprentice ( $5 \mathrm{Hrs} / \mathrm{Wk}$ )
9.191 Sheetmetal Apprentice ( $5 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units $11 / 2$
. 192 Machinist Ap
Term Units 112
rm Units $11 / 2$
Automotive Mechanic Apprent
Term Units $11 / 2$
9.194 Painter Apprentice (5 Hrs/Wk)

Term Units $11 / 2$
9.200 Administrative Management Seminar (3 Class Hrs/Wk)

Term Units 3 The Administrotive Management Course presents in a practical setting those principles and techniques of modern management of particular value in the solution of the problems of smail business. In a series of meetings uthizing conterence discussions,
cose studies, guest lectures, and supervised readinos, the course provides an opporfunity for its participants to discuss their specific problems and analyze current business proctices.
9.202 Small Business Records Management (3 Class Hrs/Wk)

Term Units 3 For present or prospective owners or managers of small businesses. Designed to proFor present or prospective owners or managers of small businesses. Designed to pro governmental agencies, finnoncial institutions. to give the owner a better plicture of
his needs for cosh, credit control, cost onolysis, gross and net profit.

## Technical-Vocational and Adult Course Descriptions

9.204 Small Business Operation (3 Class Hrs/Wk) Term Units 3 An introduction to the small business in the Ameritan eronomy and recent trends
and operations in smoll business operation. The problems of establishing and operating a business cre considered, with emphasis given to the field of retalling.
9.301 Fire Training - Basic "A" (30 Hours) Term Units 1 A beginning course to acquaint the student with fire behavior, the orgonizotion of to olarms and training to develop skills in the use of small tools, sopes, knots, hose lines and ladders.
9.302 Fire Training - Basic "B" (30 Hours)

Term Units 1 A continuation of Fire Training 9,301 designed to train the student in the use of portable fire extinguishers, in methods of overhaul and salvage, in the principles
of fire control in natural cover crops, in forcible entry tactics and in ventilation and rescue procedures. Prerequisite: Fire Training 9.301 .
9.303 Fire Training - Basic "C" (30 Hours) Term Units 1 A continuation of Fire Training 9.302, the study of fire streams, fire apparatus, pre-
fire planning, flammable liquids and gosses, structure fire problems and practice fire planning, flammable liquids ond gosses, structure fire problems and practice
evolutions. Emphasis is placed on demonstration, practice and drill. Prerequisite: evolutions. Emphasi
9.304 Fire Training - Basic "D" (30 Hours)

Term Units 1 A continuation of Fire Troining 9.303 , intended to review for the student fire control tactics, then apply these principles to specific types of buildings and hazards, invehicle fires. Prerequisite: Fire Training 9.303.
9.400 Pharmacology ( 3 Class Hrs/Wk) Term Units 3 A course designed for practical nurses who wish to leorn some of the basic
princioles of pharmacy. it will give the students a better understanding of drus: acquaint them with same of the most-used drugs and how to administer them; and acquaint them with some of the dangers of odministering drugs.
9.500 Elements of Supervision (3 Class Hrs/Wk) Term Units 3 A basic introductory course covering in general terms the total responsibilities of a
supervisor in industry, such as orgonization, duties and responsibilities, human relations, grievances, training, rating, promotion, quality-quantity control, and mon-agement-employes relations.
9.501 Written Communications for Supervisors (3 CLass Hrs/Wk)

Term Units 3 Review of writing mechanics covering grammar, punctuotion, sentence structure and poragraph structure. Business letter-writing involving the principles, plonning, and dictating of letters. Memorandum and bulletin writing with emphosis on format,
contrasture, tone, ond style. Manual writing covering format, content, ond structure.
9.502 Basic Psychology for Supervisors (3 Class Hrs/Wk) Term Units 3 A course to assist the supervisor in understanding the people with whom he works, with emphosis in such oreas as psychological aspects, perceptions, learning processes, emotions, ottitudes and persanalities.
9.503 Oral Communications for Supervisors (3 Class Hrs/Wk)

How we communicate. Effective speaking and listening. Kinds of supervisory How we communicate. Effective speaking ond listening. Kinds of supervisory
communications. Soying what we mean, which covers oral versus written communicotions. Understanding what is communicated as related to intent and effect. Conference leading and practice for supervisors.
9.504 Developing the Employees Through Training (3 Class Hrs/Wk) (Teacher Training)

Term Units 3
The supervisor's responsibility for developing employees through training. Orientation and induction. Vestibule and on-the-job techniques. Job instruction prin ciples. Apprenticeship training, Technical training. Supervisory training and man
agement development. Use of outside agencies. Advisory committees.
9.505 Report Writing for Supervisors ( 3 Class Hrs/Wk)

Term Units 3 Types of reports: statistical, financial, norrative, technical, Steps in preparing the Ports of the report. Techniques of writing. Format, style and organization. lilu stroting the report. Practice in writing and evaluating reports in the occupational field of the individual enrollees. Prerequisite: Written Communications for Super-
visors 9.501 or equivalent.
9.506 Human Relations (3 Class Hrs/Wk)

Term Units 3
(Developing Supervisory Leadership)
The practical opplication of basic psychology in building better employer-employee relationships by studying human relations techniques. Prerequisite: Basic Psychology
for Supervisors 9.502 .
9.507 Reading Improvement for Supervisors (3 Class Mrs/Wk)

Term Units 3 General approach to better reading through the proper use of text material, reading films, tochistoscope, and practice. Benefits of better reading, primary considerotion vanced reading tips.
9.508 Labor-Management Relations (3 Class Hrs/Wk)

Term Units 3 The history and development of the Labor Movement. Development of the National sponsibility for good labor relations. The union contract Act. The supervisor's re
9.512 Methods Improvement for Supervisors (3 Class Mrs/Wk) (Work Simplification) The supervisor's responsibility for job methods improvement. The basic principles
of work simplification. Administrotion and the problems involved. Motion study fundamentals for supervisors. Time study techniques.
9.514 Cost Control for Supervisors (3 Class Hrs/Wk)

Term Units 3 How costs are determined in industry. Cost control and its functions. The supersolvage, quality control, quantity control, control of time. costs, materials, waste,

## Technical-Vocational and Adult Course Descriptions

9.516 Supervisor's Responsibility for Management of Personnel ( 3 Class Hrs/Wk)

Term Units 3 Personnel techniques for which the supervisor is portially responsible and for which he should hove some troining in carrying out his responsibility, Selection, placement,
testing, orientation, training, counseling, merit rating, promotion, transfer, ond trointesting, orientation, tr
ing for responsibility.
9.518 Organization and Management (3 Class Hrs/Wk)

Term Units 3 The supervisor's respansibility for plonning, organizing, directing, controlling, and coordinating. Acquaints the supervisor with the basic $u n c t i o n s ~ o f ~ o n ~ o r g a n z a t i o n ' s ~$
and his responsibility in corrying them out in occordance with the orgonization's plan. Estobbishing lines of authority, functions of departments or units, duties and responslbilities, policies and procedures, rules and regulations.
9.520 Job Analysis for Wage Administration (3 Class Hrs/Wk)

Term Units 3
The history of woges. Inequalities in rates of pay. Management ond union movement toward a "fair wage" plan. The supervisor and job descriptions, job specifications, job evaluations, and job clossifications. The wage Plon Iold down by the
Department of Lobor. The Federal Employment Service. Woge odministration Department of Labor. Th
and the line organization.
9.522 Safety Training and Fire Prevention (3 Class Hrs/Wk)

Problems of accidents and fire in industry. Manogement and supervisory Units 3 sibility for fire and occident prevention. Accident reports ond the supervisor. Goad housekeeping and fire prevention. Nachine guarding and personnel protective equipment. State Industrial Accident Code ond fire regulations. The First Aid Department and the line supervisor's responsibility. Job instruction and sofety insurance corrier ond the Insurance Rating Bureau. Advertising and promoting a good sofety and fire prevention program.
9.524 Management Controls and the Supervisor (3 Class Hrs/Wk)

Term Units 3
Bosic principles of controls. Delegation of responsibility through the use of con. quantity control, production control, control over materials, control over personnet quantity Control,
9.526 Public Relations for Supervisors (3 Class Hrs/Wk) Term Units 3 An introduction to the practice of Public Relotions as it relates to the profession of
9.540 Conversational Japanese ( $21 / 2 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 1 A three term sequence in beginning conversational Japanese for the benefit of
business and industrial workers for more effective communication with forcign business and industr
speaking
customers.
9.700 Beginning Typing (1 Class, 3 Lab Hrs/Wk) Term Units 2 A beginning course in typing for those with no previous typing instruction. It covers the ports and construction of the more comman makes of typewriters, learning of the keyboard, and the basic techniques of the touch system. The student should
develop rhythm in movements and attain an acceptable typing speed. He is introduced to simple forms of letters, tabulations, and manuscripts.
9.703 Advanced Typing Clinic (1 Class, 3 Lab Hrs/Wk) Term Units 2 A continuation of 9.700 or 2.501 Individual units of study for those desirous of extending their present typing abinity, These units ore (1) correspondence, (2) fobup and intensive development of superior skills. Prerequisite: Acquaintance with the typewriter keyboord.
9.715 Elementary Bookkeeping and Record Keeping
(1 Class Hr, 2 Lab Hrs/Wk)
Term Units 1 A course designed to help the student develop an understanding of bookkeeping and record simple transactions using double entry bookkeeping methods
9.721 Beginning Shorthand (2 Class, 2 Lab Hrs/Wk)

Term Units 3
An introduction to theory, reading and writing outines of abbreviated words, phrasing and contextual material. Course includes dictotion and longhand transcription Preraquisite: Sotisfoctory grade in high schoal English or poss qualifying English test. One term of typing or concurrent enrollment in typing.
9.722 Advanced Shorthand Clinic (2 Class, 2 Lab Hrs/Wk) Term Units 3 Individual units of study for use of those desiring to extend their present shorthand
ability. Each unit will be made up of two sections: (1) general review and (2) indlvidual unit materiol. Individual units ore: (1) dictation speed development, (2) tran-
scription proficiency
and speciolized dictation, and (4) shorthand note reading description proficiency, (3) specialized dictation, and (4) shorthand note reading development. Prerequisite: Acquaintance with shorthand theory.
9.810 Farm Record Keeping (1 Class, 2 Lab Hrs/Wk)

Term Units 3 A course designed to present the essential tools and procedures used in farm record
9.813 Landscaping for the Home ( $21 / 2 \mathrm{Hrs} / \mathrm{Wk}$ )

Term Units 2 A study of tandscaping techniques useful in plonning and beoutification of home grounds. A study of shrubs ond trees for use in foundation planting will be inplont materiols and trees as appropriate to the housc plan and its relationship to
9.900 Textile Workshop ( 6 Class Hrs/Wk, 2 Wks)

Term Units 1 A concentrated study of modern textile fabrics and the use and care problems indrycleanability and washobility of modern fabrics werformance in wear, construction, drycleanability and washability of modern fabrics will be emphasized
9.933 School Lunch Workshop ( 6 Hrs )

Term Units 0 A concentrated workshop to provide the school lunch cook on opportunity to
obtain current information in the oreas of nutrition, menu planning ond food obtain furrent information in the oreas of nutrition, menu planning ond food
preparation as well as on opportunity to share ideos and techniques useful in preparation as well as on opportunity to share ideas and t
developing and conducting an effective school lunch progrom.
9.938 Menu Planning ( $\mathbf{2} \mathrm{Hrs} / \mathbf{W k}$ )

Term Units 2 The course covers menu planning for quantity food service and will include basic use of techniques and aids useful in menu planning vegenule requirements, the lunch will also be studied.


## INDEX

Page
Business Administration ..... 55
Entrance Requirements ..... 54
Fine Arts ..... 55
General Information ..... 54
Health and Physical Education ..... 58
Home Economic ..... 58
Humanities, Language and Literature ..... 58
Lower Division General Education ..... 54
Music ..... 56
Science and Mathematics ..... 57
Secretarial Science ..... 55
Social Science ..... 59
Speech ..... 56
Theatre ..... 56
Transfer Education ..... 54


The Liberal Arts and Sciences represent the ancient and continuing effort of men to extend the range of their experience beyond the narrow limits of time and place in which they find themselves at birth. To enjoy such a freedom, men must know all they can about themselves and their environment, both physical and social. The liberal arts and sciences are a group of studies designed to assist and direct the explorsciences are a group of studies designed to assist and direct the
ation of man's nature and his position in the world around him.

By the help of some of these studies, Western man is able to compare his own experiences with those of men in other times, places, and circum stances, and thus share in the inherited wisdom and satisfaction of mankind. Through others, we deepen and extend our knowledge of our physical environment. Knowledge-scientific, historical, and literary-is the in dispensable condition of the good life of free men, of "the good society."

## ENTRANCE REQUIREMENTS

There are no official entrance requirements beyond the general entrance requirements of the college for students intending to choose a major field of study within the Liberal Arts and Sciences area.
Students intending to major in any of the natural sciences are, however, advised to present at least two units of high school mathematics and two units of high school science. Experience has proved that students who lack this preparation are handicapped in college work in science.

## TRANSFER EDUCATION

Transfer (lower-division) courses parallel freshman and sophomore courses offered by major Oregon universities and four-year colleges. Students normally transfer to upper division (junior) standing at the end of the sophomore year to the school of their choice. Students may arrange a general education program in the liberal arts, or they may plan a special course of study to meet particular needs.
The lower-division collegiate program at SWOCC offers credits transferable within the Oregon State System of Higher Education. The student planning to seek a degree in these institutions should familiarize himself with the catalog of the institution of his choice and with the specific requirements of his proposed major program. The faculty advisors of Southwestern Oregon Community College will gladly assist
him in this planning. Certain professional course requirements may be met only on the campus of the institution offering the advanced program. Students in art, music, business, and education curricula should be aware of these requirements.

The several institutions of the Oregon State System of Higher Education require that the student offer credit hours in each of the major academic divisions: the Humanities (language, literature and the arts); the Social Sciences; and the Sciences, in addition to the requirements of the major. A student at Southwestern Oregon Community College can satisfy the state-wide health and physical education and English composition requirements and also elect to do work in each of these major divisions to meet the general institutional requirements. He may also satisfy the language requirements that certain degree programs demand. Students enrolling in elementary and secondary education and in general liberal arts curriculums will find most of the courses they need for lower division credit. They should, however, familiarize themselves with the catalog of the four-year institution they plan to attend and keep in mind that the institutions might not accept more than 93 credit hours of lower division work upon transfer from a community college.

## LOWER-DIVISION GENERAL EDUCATION

This curriculum is intended to be broad and general in scope. Students completing two years' work and fulfilling all requirements normally select a major in a specialized field only at the end of the sophomore year when they transfer to a school which is authorized to grant a baccalaureate degree. For students who plan to complete work for a bachelor's degree, the two lower-division years provide a general education and a foundation for specialization during the junior and senior years in some field in the iberal arts and sciences or in a professional or technical curriculum.

For students uncertain about their educational or vocational goals, the lower division offers the opportunity to explore several fields of study to help determine special interests and aptitudes. The Counseling Center offers each student the opportunity to explore educational and vocational interests and goals through counseling and testing.

For students who plan to complete no more than two years of college, the lower-division offers a terminal program suited to the needs of the ndividual, balancing cultural and vocational courses, as preparation for intelligent and useful citizenship.

## Liberal Arts and Sciences Course Descriptions

## BUSINESS ADMINISTRATION

## BA 101 Introduction to Business

Business organization, operation and management intended to orient the hours Business organization, operation, and management intended to orient the student
in the field of business and to help him determine his field of maior concentrotion.
BA 131 Introduction to Business Data Processing 3 hours Introduction to Dota Processing, including concepts, methods, equipment, language A 211, 212, 213 Principles of Accounting

3 hours each term Introduction to field of accounting, technique of account construction; preporotion
of financial statements; application of occounting principles to practical business of financial statements; application of occounting principles to practical business
problems; proprietorship studies from standpoint of single owner, portnership, and problems;
corporation.
BA 226 Business Law 3 hours Forms and functions of the law; application of the uniform commercial code which
offects business decisions. Moior emphasis on decisions involving contracts offects business decisions. Mojor emphasis on decisions involving contracts, agency, employment, personas property and bailments, and negoriable instruments,
with selected segments in lows of sales, business organization and real property rights.
BA 232 Business Statistics
3 hours Modern business decision theory, and statistics as a tool for business decision making. Primary emphosis on statisticol description (tables, charts, and frequency
distributions) and the elements of probabilify; consideration also of modern dota processing, index numbers and time series onolysis (trend, cyclical, and seasonal odjustments) of business dota. No prerequisite, olthough one term of college
aloebra or a oood high school background in math is suggested algebra or a good high school background in moth is suggested.

## SECRETARIAL SCIENCE

SS 111, 112, 113 Stenography (2 Class, 3 Lab Hrs/Wk) 3 hours each term Theory of Gregg Shorthand, proctical opplication in sentence and paragraph dictation lent. Students with one year of high school shorthond will be placed on the advice of the instructor
SS 121, 122, 123 Typing (1 Class, 4 Lab Hrs/Wk
2 hours each term Theory, and procticc; drills of ollf, kinds; punctuation and mechanical orrongements forms; straight copy timings; training on both manual and electric tyoern business dents will be placed in $5 S 121$ or 55122 upon the recommendation of the instructor.
SS 211, 212, 213 Applied Stenography
( $3 / 2 \mathrm{hr}$ periods per wh) 3 hours each term Advanced transeription with emphasis on compreshensive speedreading of notes in in typing, shorthand and English Essentials. \$S $211,212,213$ must be taken con secutively. Prerequisite: Satisfactory completion of SS 113 or equivalent. Will not
be offered after 1970.71.

## FINE ARTS

ART 195, 196, 197 Basic Design
2 hours each term A three term introductory sequence; a series of studio participation projects involving the bosic principles and elements of design. Exercises ond problems
to motivate individual research and creativity. Open to nonmajors.
ART 201, 202, 203 Survey of Visual Arts
3 hours each term Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, media, and a
wide variety of art forms, lecture and visual presentations. Open to nonmalors.
ART 255 Ceramics 3 hours any term A studio-laboratory course, involving the active porticipation of the individual student in art experiences designed as an introduction to the materials, methods ond with experimentotion and familiarization in hand construction, throwing, glazing and firing. Open to nonmajors.
ART 290 Painting
3 hours each term Instruction in the use of oil color, wotercators, or other medio. Registrotion permifted any term but it is desirable that the work be started in the foll. Emaha
will be given to individual needs ond interests in pointing. Open to nonmajors.
ART 291 Drawing
2 hours each term Training in observation ond selection of significant elements. Registration permitted
any term, but it is desirable that the work be started in the fall. Exploration of any ferm, but it is desirable that the work be started in the fall. Exploration of
media, methods, and techniques in drowing will be emphasized. Open to nonmajors.
ART 292 Watercolor 3 hours any term A studio-Iaboratory course, involving the active participation of the individual stuThe study of wotercolor techniques with special attention to the particular characteristics of the medium, emphosis on landscape moterial, may be substituted for a third term of Drowing, Art 291 , to meet lower division major requirements. Open to non-
majors. Usually offered spring term. Prerequisite: Painting and drowing or approval.
ART 293 Elementary Sculpture
3 hours each term An introduction to the language of forms and the elements of sculpture. The investigation of materials through compositional exercises in clay, plaster, wood and gether with oppositions in space, void, and shape. Primary considerations of media, methods, and techniques in sculpture. Open to nonmajors. NENT UNLESS OTHER ARRANGEMENTS ARE APPROVED BY THE INSTRUCTOR.
Mus 50 Basic Piano
1 hour any term Classroom instruction for students not prepared for piano instruction at the level
of Music 190 .
Mus 121, 122, 123 Musicianship
4 hours each term A course to develos and strangthen basic musicianship in the student through a
study of diotonic tunctional triadic hormony, including modulotion to related keys,
secondary dominants, wo port counterpoint Written work correloted with sight secondary dominants, two port counterpoint. Written work correloted with sight sing,
ing, onolysis, oural comprehension, and keyboard application is stressed. Consists ing, ${ }^{\text {andysis, }}$ on oural comprehension, ond keyboard applicotion is stressed. Consists
of 5 clossfoom instruction hours. Prerequisite: A background in group or individual music performance.

Mus 221, 222, 223 Musicianship II 4 hours each term Harmonic, melodic, thythmic, ond basle formal practices since 1700. Written work correloted with sight singing, analysis, keyboard, and aura comprehension. Pre-
Mus 190 Performance Studies 1 hour each term (maximum 3 hours) Individual instruction.
Mus ${ }_{1}^{195}$ Band 1 more than 6 hours total credit moy be earned in Mus 195, 196, 197.) term
Mus 196 Orchestra ${ }_{\text {ino }}$ more than 6 hours total credit may be earned in Mus 195 , 196 , 197.)
Mus 197 Chorus hours total credit may be earned in Mus 195 hour each term (No more thair 6 hours total cred may be erned in Mus 195, 196, 197.)
Mus 201, 202, 203-Intro. to Music and Its Literature 3 hours each term Develogment of understanding and intelligent enjoyment of music through a study of its elements, forms, and historical styles.
Mus 224, 225, 226 Keyboard Harmony 1 hour each term Keyboord application of the theoretical principles studied in Mus 211, 212, 213;
exercises in figured-boss realization exercises in figured-bass realizotion, modulation, transposition, and score
development of extempore playing.
To be taken concurrently with Mus 211,212 development of extempore playing. To be taken concurrently with Mus 211,212 ,
213. Prerequilsite: Mus. 113 or equivalent; satisfactory rating in fest of koyboord 213 . Prerequilite: Mus. 113 or equivalent; satisfactory rating in test of keyboord
Mus 290 Performance Studies 1-3 hours any term Individual Instruction

- (3 hrs maximum) Prerequisite: proficiency required for satisfactory completion of Mus 190


## SPEECH

SP 111, 112, 113 Fundamentals of Speech 3 hours each term Fundamentals of Speech is dasigned to ocquaint the student with bath the critical opproisol of another's speech obility and to prepare the student for effective com.
municotion of ideas in oral form. The first term emphasizes content ond orgonizotion. The second, explores the communication process through discussion formats, The third term emphasizes odjustment to the specaking situotion, effective delivery audience motivation, and the languoge of the speech
SP 232 Group Discussion 3 hours A practical explaration ond practice of group problem solving, constructive parTHEATRE
TH 101 Orientation to Theatre Art 3 hours Theatre 101 is designed to broaden the student's insight-whether for reading ploys,
viewing dramatic ort in a theatre, or participation in the production of dramatic works. The elements of dramo and the theatre are analyzed for that resultont understanding.
TH 102 Fundamentals of Acting
Fundamentals of Acting seeks to ocquaint the student with basic techniques ond to examine various fundamental theories of acting. Emphosis is placed upon character development, movement, and motivation.

TH 103 Rehearsal and Performance
3 hours
Reheorsal and Performance is designed to provide students with extended acting studied with application to practice and the solution of octing problems.
TH 121, 122, 123 Theatre Principles
1 hour each term
Students ore introduced to the unique group creation of theatre ort. The elements of that group creation are determined and examined. Flrst Quarter: A study of struction ore emphosized. Third Quarter: Lighting, make-up and costuming are the clements stressed.
TH 201 Theatre of the Past 3 hours Theotre of the Past traces a development of the theatre from classical Greece

TH 202 Continental Theatre
3 hours Continental Theatre involves the exploration of European and British stoge prac-

TH 203 American Theatre
3 hours The story of the American Theotre presents one of the most colorful aspects of life in these United Stotes from the colonial period to the present.
architecture production methods acting directing stoging drama, theatre architecture, production methods, acting, directing st ${ }^{\text {st }}$ effects on the social-cultural atmosphere of their time.
TH 229 Oral Interpretation
3 hours Interpretation is designed to help the student improve and enioy reading aloud and emotional values and to enhance one's appreciation of literature.
TH 250, 251, 252 Theatre Workshop
1, 2, or 3 hours each term Theotre Workshop offers the student the opportunity to porticipote in creative and
opplied fundomentols of theatre production. Nonocting skills ore the primary focus. Activity projects in theatre also form part of the course content. First Quarter: Emphosis on the total group process of play production in terms of participation is the focus.
Second Quarter: Scene design and construction techniques are stressed. Second Quarter: Scene design and construction techniques are stressed. up the final third quarter of the year sequence.

## SCIENCE AND MATHEMATICS

Bi 101, 102, 103 General Biology 4 hours each Biological principles applied to both plants and animals. 3 lectures; 1 three-hour laborotory period.
Bot 201, 202, 203 General Botany
4 hours each term Bor. 201 and 202 will basically cover structure, physiology, ecology, and genetics of 203 will be a survey of the plant kingdom, including identification of notive plants, use of keys, florol morphology. 2 lectures; 3 hours .laboratory.

## Liberal Arts and Sciences Course Descriptions

Ch 104, 105, 106 General Chemistry
5, 4, 4 hours An introductory course in gencral, inorganic chemistry. Introduction to concepts of
otomic structure ond its effect on the behavior of matter, the laws of chemical change, ond the manipulation of scientific quantities. Prerequisite: satisfactory background in high school algebra or concurrent enrollment in Mth 0.510 Elementary Algebro.
${ }^{9}$ Ch 201, 202, 203 General Chemistry
4 hours each term Service course covering basic principles of general chemlstry, Three lectures and one three-hour laboratory. Prerequisite; one year of high school chemlstry and
oroficiency in basic algebra, or acceptoble college aptitude scores. The laboratory proficiency in basic algebra, or acceptay devoled to quallatative anotysis.
*Transfer credit will not be granted for more than one of the two sequences. (Ch 104, 105, 106; Ch 201, 202, 203)
Ch 226, 227 Elements of Organic Chemistry 5 hours each Chemistry of
For predental,
preveterinarian, and For predental, prev
laboratory pertods.
Ch 234 Quantitative Analysis
5 hours Principles of oravimetric analysis, spectrophatometrie anolysis, and volumetric an-
alysis.
Designed
for 3 alysis. Designed for predental, premedical, and medical technology students.
Ch 241-Chemical Theory
5 hours each term Service course covering chemical principles such as equilibrium and thermodynamics, etc.
GE 101 Engineering Orientation 2 hours Engineering Orlentation GE 101 is on extensive introduction to the nature of the engineering process of representation, optimization and design. The opportunities
found in the field of engineering ore introduced. Prerequisite: Mth 101 previously
or conter or concurrently.
GE 102 Engineering Orientation
2 hours Engineering orientation GE 102 acquaints students with engineering anolysis and develops skills in the areas of computation and graphical representation. Computer
GE 103 Engineering Orientation
2 hours Fosters creative oblity on design proiects. Computer programming is used os on
old for problems common to all fields of engineering. Prerequisite: Mth 101 preald for problems common
viously or concurrently.
GS 104, 105, 106 Physical Science 4 hours each Fundomental principles of physics, chemistry, astronomy, ond geology; development
and application of the scientific method and opplication of the scientifice methad, 3 lectures; ; two-hour laborotory period. Prerequisite: One year of high school Algebra and/or consent of the instructor.
Mith 100 Intermediate Algebra
4 hours Functions and graphs, linear equations in two unknowns, quodratic equations, negotive and froctionot exponents, rodicals, prooressions, binomial theorem, loogrithmic computation. Prereguisite: one year of high school algebro. No
taken after. Mth 101 or any more advanced mathematics course.

Mth 101, 102 College Algebra and Trigonometry
4 hours each A modern treatment of algebra and trigonometry exhibiting the logical structure of the disciiplines ond including topics essential for subsequent mathematical study; i.e., sets, tunctions, real number systems, equats, etc. Prerequisite:' two years of high logarithmic functions, trigon.
school algebra or Mth 100 .
Mth 104, 105, 106 Introductory College Mathematics 4 hours per term This is a unified course in Algebra, Trigonometry, and the Fundamentals of Colculus,
desioned as a terminal course for students of the liberal orts, social and behovioral sciences, or as on introductory course for those students who' decide to go on with sciences, sty of mothematics.
Mth 191, 192, 193 Mathematics for Elementary Teachers 3 hours per term 191, 192: A devolopment of arithmetic as a logical structure 193: A coreful survey of stote-adopted texts grade-by-grade, with coreful attention given to the recog
nitlon of principles learned in the outline for Mth 191 and 192 . Mothematics for Elementary Teachers is a requisite for majors in elementary education of Oregon Stote University.
Mth 200, 201, 202, 203 Calculus with Analytic Geometry 4 hours each Mth 200: Differentiation and integration: applications to rates, areo, volumes, cendental functions. Mth 202: Techniques of intcgration, vectors, solid analytic geometry. Mth 203: Portial differentiatton, multiple integration, infinite series. standord sequence for students in science and engineering.
Mth 233 Introduction to Numerical Computation
3 hours Basic principles of numerical computation, programming a computer in subiect orPrerequisite: Mth 101, or equivalent.
Phy 201, 202, 203 General Physics
4 hours per term A first year college physics course intended both for nonstience majors and students majoring in the life sciences and related oreas. Concepts in mechanics, thermody nuclear physics ore developed from ' fundamental opproach. 4 lecture-discussion periods per week. Prerequisite: Mth 101 , 102 or equivalent, or consent of the in perructor. Corequisite: Enrollment In Phy'204, 205, 206.
Phy 204, 205, 206 Physics Laboratory 1 hour per term Loboratory experiences in mechanics, heat, electricity and magnetism wave, wave motion, sound, light, and atomle physics. Intended primarily for students enrolled in General Physics or Enginecring Physics but open to others with consent of the instructor. One 3 hour lab period per week
Phy 207, 208, 209 Engineering Physics 4 hours per term A first year college physics course for students majoring in engineering or the physical sciences such as physics, chemistry, etc. Mechanics, wave motlon, sound, thermodynarmics, electromagnetism, light, relativity, quantum physics, otomic and nuclear
physics, ond relativity are covered in depth. 4 lecture discussion periods per week. physics, Prerequisite: previous or concurrent enrotiment in an introductory course in
or consent of the instructor. Corequisit: enroliment in Phy 204, 205, 206.

## Liberal Arts and Sciences Course Descriptions

## Z 201, 202, 203 General Zoology <br> 202, 203 General Zoology $\begin{aligned} & \text { For zoology } \\ & \text { and others. } \\ & \text { 3ajors and }\end{aligned}$ premedical,

## HEALTH AND PHYSICAL EDUCATION

HE 250 Personal Health
3 hours any term Study of the personal health problems of college men and women, with emphasis on implications for family life, mental health, communicable diseoses, and nutrition Satisfies the college requirement in health education for both men and women.
HE 252 First Aid
3 hours any term
Study of first aid and safety procedures-for the individual, schools, athletics,
and civilian defense; meets standard and advanced certification of the American and Civilian
Red Cross.
PE 131 Introduction to Health and Physical Education
3 hours Professional orientation; basic philosophy and objectives; professional opportunities
PE 180 Physical Education (Women)
1 hour each term
A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms requlred for al
PE 190 Physical Education (Men)
1 hour each term A variety of activities taught for physiological and recreational volues. Special
sections for restricted and corrective wotk. A totol of five terms required for sections for restricted ond corrective wotk. A total of five terms required for
sil lower-division men students. 3 hours a week.
PE 194 Professional Activities (Women) 2 hours each term
PE 195 Professional Activities (Men) 2 hours each term For professional students. Methods, teaching techniques, and basic skills.
PE 294 Professional Activities (Women) 2 hours each term For professional students. Methods, teaching techniques, and basic skills. Falltennis and bodming
bowling and golf.

2 hours each term For professional students. Methods, teaching techniques, 2 hours boach term tennis and badminton. Winter- valleyball and basketball. Spring- archery,
bowling and golf.

## HOME ECONOMICS

HEc 101 Introduction to Home Economics
1 hour An orientation course for Home Economics majors and nonmajors interested in developing a greater understanding of Home Economics os a profession. The course
explores the philosophy, contributions, trends, and interdisciplinary noture of the field as well as the services to fomilies. Employment opportunities and training and preparation required for the various areas within the fields are studied os are new de-
velopments in related career fields.

## FN 225 Nutrition

3 hours
Study of nutrition and the newer scientific investigations, study of optimal diet for heolth; present day nutritional problems. For home economics majars, nursing stu-
CT 210 Clothing Construction
210 Clothing Construction
3 hours
Study of the principles of selection, construction and fitting with emphasis on man-
agement. Emphosis throughout the course is on decision making in agement. Emphosis throughout the course is on decision making in relation to made ot home. Ciothing construction as a creative expression is also recognized.
CT 211 Clothing Selection
3 hours
The course includes study of the artistic, economic and psychological factors offecting the selection of odult clothing. Designed for the student majoring in home eco-
FL 222 Marringe Preparation 2 Als open to nonmajors.
222 Marriage Preparation, 2 hours $\quad 2$ Credits
Open to men ond woman. Morriage; nature and motives, morriage readiness.
Courtship period, factors in mate selection.
FL 223 Family Living, 2 hours selection.
Open to men and women. Marriage and relationships in the 2 Credits A study and onalysis of the social, physical, educational, economic, psychological and other factors on family behavior.

## HUMANITIES, LANGUAGE AND LITERATURE

Eng 101, 102, 103 Survey of English Literature 3 hours each term Study of the principal works of English Literoture based on reading selected to be representative of great writers, literary forms, and significant currents of thought.
Provides both on introduction to literature ond a backoriund the study of other literatures and other fields of cultural history will be useful in Soxon beginnings to the Renaissance; Winter: Milton to Blake or Keats; Anglo-
Eng 104, 105, 106 Introduction to Literature
3 hours each term A gencral course designed to prepare the student for furthering his study ond appreciation and enjoyment of literature. The fall quarter will be concerned with fiction
novels, short stories, essays, and biographies; the with the drama, both ancient and modern; spring quarter will we coneconed wed poetry, lyric, norrative, and epic. Although; spe major emphasis will be on English
Eng 10\%, 108, 109 World Literature
10\%, 108, 109 World Literature $\quad 3$ hours each term Study of the literary and cultural foundations of the Western world through the ong-
lysis of a selection of masterpieces of literature, ancient and modern, read in chronological order. The readings include continental, English and modern, read in chron"NOTE: A student may apply credits of only one of the above literature sequences
Eng 201, 202, 203 Shakespeare 3 hours each term
Study of important ploys-comedies, histories, and trogedies. Recommended for
moiors.
Eng 253, 254, 255 Survey of American Literature
3 hours each term American Literature from its beginning to the present day. Fall: Colonial period to

## Liberal Arts and Sciences Course Descriptions

Phl 201 Problems of Philosophy
Introduction to the study of some of the persistent problems of philosoch hours
Phl 202 Elementary Ethics
3 hour
Introduction to the philosophical study of morality; e.g., rigrur and wrong, free will
and determinism, morals and society.
Phl 203 Elementary Logic
3 hours
Introduction to the study of reasoning. How to recognize, analyze, criticize, and
construct the main types of argument and proof.
ument and proof
Wr 111, 112, 113 English Composition 3 hours each term The fundamentals af English Composition; frequent written essoys. Special atten rion to correctress in funda
precede $W_{r} 112$ and 113.)
WR 214 Business English
Study of modern practices in business correspondence. Analysis and writing hours prinnipal types of correspondence and review of grammar and usage. Prerequislte
WR 113 or I. 113 .

WR 241, 242, 243 Introduction to Imaginative Writing Opportunity and encouragement for those who wish to express themselve 3 hours literary mediums. Models of dramatic forms, short stories ond poetry ore studied and original work is done in each of these branches of writing. Prerequisite: dem-
GL 50, 51, 52 First-Year German
4 hours each term Designed to provide a thorough grammatical foundation and on elementary reading
knowledge of German, as well as an understanding of the spoken
GL 101, 102, 103 Second-Year German
4 hours each term Review of grammar and composition; reading selections from representative authors

J 215 Journalism Laboratory
1 hour each term
Work on the student publications. Given in coordination with $1216,217,218$.
J 216 Reporting $I$
2 hours Basies of gathering and reporting news, with emphasis on accuracy and clarity of
writing. 215 required in conjunction with this coursc.解
J 217 Reporting II
Accuracy and objectivity standards as well as reader oppeal in writing 2 hours of gothering and organizing material for multiple-source, multiple-foct Methods $j 215$ required in conjunction with this course. Prerequislfe: J 216.
J 218 Copy Editing and Makeup
2 hours
Copy reading, headline writing, proofreading and makeup. (Recommended for od-
vanced positions on the Southwester.) $\quad 215$ required in conjunction. Prerequisite: j 216 or consent of instruetor.
RI. 50, 51, 52 First-Year French
An introduction to French, stressing reading and speaking. Exercises in elementory composition and grammar.

RL 101, 102, 103 Second-Year French
Study of selections from representative authors; review of arammor: each term attention to oral use of the language.

## SOCIAL SCIENCE

Anth 101, 102, 103 General Anthropology
3 hours each term Fall: Man os a living organism; biological and human evolution and heredity. temporal distribution of cultures. Spring: than; prehistoric orchaeology; spatial and zation of culture; man as a participant and observer of culture.
Anth 207, 208, 209 Introduction to (Uuitural Anthropology 3 hrs each term The meaning of culture; its sionificance for humon beings; its diverse forms and expansion. No prerequisite. different groups of men; its processes of growth and
Ec 201, 202, 203 Principles of Economics
3 hours each term Principles that underlie production, exchange, distribution, etc. Must be taken in
Geog 105, 106, 107 -Introductory Geography
3 hours each term A senerat introduction to the field of geography, in sequence as follows: Geog 105 ,
physical geography; Geog 106, regional survey of the world; Geog 107, cultural ahysical ge
geography.
Hst 101, 102, 103 History of Western Civilization 3 hours each term Origins and development of Western Civilization from ancient times to the present.
Hst 201, 202, 203 History of the United States
3 hours each term
PS 201, 202, 203 American Government
3 hours each term 201: principles of Americon constitutional system, political process, and organiza203: practical operation and contemporary reforms in government government local level.
PS 205 International Relations An analysis of the dynamics of political, social and cultural interaction between
Psy 111 Personality and Development
Self-understanding and development; emphasis upon habits, attitudes, emotional
Psy 201, 202, 203 General Psychology
3 hours each Introductory study of behavior and conscious processes. Survey of experimenta
studies of motivation, learning, thinking, perceiving, and individual difference.
Soc 204, 205, 206 General Sociology
ual difference
The basic findings of sociology concerning the individual, culture hours each term institutions, ond factors of social change. Prerequisite: culture, group sophomore standing or social
consent of instructor.

## 60 Academic Regulations



INDEX
Page

Change of Grade
Change of Registration ............................................... 63
Course Numbering ..._-_...................................... 62

Credit Limitation .-._-.......................................... 62
Degrees and Requirements ._-_-............................... 63
Degrees, Application for ......-.....................-.-. 63
Degree Group Requirements _-_._-_................... 64





## Academic Regulations

## CREDITS

The academic year consists of three quarters of approximately 12 weeks each. Each hour of credit usually indicates one hour of class per week during an entire quarter. Laboratory and activity courses usually require more than one hour of attendance per credit hour. The standard student load is 15 or 16 credit hours per quarter. To complete the 93 credits required for the Associate in Arts degree in two years, a student must average $151 / 2$ credits per quarter. While the unit requirements for the Associate in Science degree vary in the different curricula, the average number of units required is 96 . In order to complete 96 units in two years, a student must average 16 units per quarter.
Permission to take a load of more than 18 credits will depend upon previous academic records, outside employment, and other factors.

## GRADING

The evaluation of a student's work is based upon a system of grades. A grade report is issued to the student each quarter after he completes his final examinations and after his credentials and financial obligations to the college are in order:

## Grade Interpretation

A Honor
B Above average
C Average achievement
D Law passing
Failure to meet course requirements
W Withdrawal

X Audit
S Satisfactory
U Unsatisfactory

## Grade Points

4 grade points per credit hour 3 grade points per credit hour 2 grade points per credit hour 1 grade point per credit hour 0 grade points per credit hour
(If not completed during the following quarter of attendance, or by special arrangement with the instructor, "I" remains on the records). 0 grade points
0 grade points
0 grade points
The grade point average is determined by dividing the total grade points earned by the number of quarter hours attempted. $W$, I, X, $S$, and $U$ grades and credits are not included in calculating the grade point average. Two examples of grade point average (GPA) computation follow:

| STUDENT NAME |  | SIUDENI NUMEEP | $\begin{gathered} \hline \text { H5 } \\ 2 \\ \hline \end{gathered}$ | $4$ | Yeap | $\begin{aligned} & \text { ADVISOF } \\ & \hline 223 \\ & \hline \end{aligned}$ | Grading srstem <br> A. 4. Exceplionot <br> . 3 . Superiot |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STODENT JOE A |  |  |  |  |  |  |  |  |
| course number | course tille |  |  | cheors | crade | ¢ |  |  |
| PE 180 | BEG EADMINTON COED |  |  | 1 | $F$ | 00 |  |  |
| UR 112 | EHGLISH COMP |  |  | 3 | . | 09 |  |  |
| MTH 201 | Calcolus geometry |  |  | 4 | ${ }_{c}$ | 08 |  |  |
| 2202 | gemeral zoology |  |  | 0 | 1 | 00 |  |  |
| EHG 102 | SURYEY EMG LIT |  |  | 3 | c | 06 | $\left.\begin{array}{l} \text { f. Fontive } \\ x \cdot \text { Audror } \end{array}\right\} \text { Point }$ |  |
|  | GPA = GRADE POIMTS DIVIDED BY |  |  |  | crepits |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | comrit | H6ar | moints | GP |
| jag A Sto | ET |  |  | vous | 14 | 14 | 32 | 2.29 |
| RODTE 1 B | 2700 |  | CuFal | NT TERM | 10 | 12 | 23 | 2.09 |
| coqutles | -EGON | 423 | CuM | ULATIVE | 26 | 25 | 55 | 2.20 |


| STUDEN | NAME | Studini numerp | Hs | OfP | yeap | ADVISOP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STUDENT JOR_A |  | 892470401 | 2 | 4 | 70 | 212 | ing system |  |
| counse numbtr | OURSE ilite |  |  | crebirs | cmadt | chatis |  | riot |
| MTE 102 | college alg trig |  |  | 4 | A | 16 |  | no. Low |
| PE 180 | TUMBLNG/TRAMPOLIHE |  |  | 1 | E | 03 |  |  |
| BI 102 | BIOLOGY |  |  | 4 | B | 12 | W. Wincom | $\cdots$ |
| CH 202 | GEN CHEMISTRT |  |  | 4 | ${ }_{\text {B }}$ | 12 | U. Uneat | cioty ${ }_{\text {coded }}^{\text {cod }}$ |
| WR 112 | EMGLISH COMP |  |  | 3 | c | 06 |  | $\int_{\text {Ponts }}^{\circ}$ |
|  | GPA = GRADE POINTS divided by |  |  |  | CRED | ITS |  |  |
|  |  |  |  |  | comit |  | gratis | Gr |
| JoE A StUdent |  |  |  | svous | 16 | 16 | 4 | 2.81 |
| 3275 SHERIDAS |  |  | CUER | Ent itrm | 26 | 16 | 49 | 3,06 |
| HORTH EEAD | OREGOH | 97459 | cum | Ulative | 32 | 32 | 94 | 2.94 |

## CHANGE OF GRADE

When it is necessary for any reason to change a grade, the instructor obtains three "Supplementary Grade Report" cards from the Admissions Office. After cards have been completed, the instructor returns them to the Admissions Office in person. One is kept on file, one is mailed to the student, and one is retained by the instructor.
The instructor involved in a course for which a grade change is necessary is responsible for initiating the change. The student will receive notifiis resion of the recorded change by mail.

## cation of the recorded

Liberal Arts transfer courses in the college catalog are numbered in Liberal Are with courses throughout the State System of Higher Education
1.49 Courses which carry no credit toward a degree.
50.99 Beginning courses in subjects taught in high school which Beginning courses in subjects taught in
100-110 Surrey or foundation courses that satisfy group requirements
200-210 in the language and literature, science, and social science groups.
111-199 Other courses offers are considered freshman courses 211-299 Normally, $100-199$ numbers are 200 aphomore courses.

## 93 CREDIT LIMITATION

Institutions of the State System of Higher Education in Oregon will accept no more than 93 credits earned as a lower division student to apply toward the baccalaureate degree requirements. The limit of 93 applies, regardless of whether the credits were earned entirely at a community regardless of whether various accredited institutions. Students who wish college or earned in various accredited instituansfer to a senior institution to secure more than 93 credits prior to their transfer to a sen oregen should obtain the advice of the registrar of the specif instiin Oregon should obtain the advice of the registrar of the specific institution to which the student intends to transfer. Such
be obtained befor
A final examination is a part of a course. Students are required to take the final examinations at the scheduled time in order to complete the course and receive credit.

## SCHOLASTIC STATUS

Honor Roll: A student who earns 12 or more credits and/or units in a quarter at SWOCC with a grade point of 3.50 or above will be placed on the honor roll for that quarter. Students carrying 12 or more credits and/or units whose grade point is 3.00 or above but less than 3.50 , with out any failing grades, will be placed on the dean's honor roll.

Academic Probation: Any student who has completed three or more quarters in the college and whose cumulative grade point average is quatow 2.00 shall be placed on academic probation. Any student who has completed not more than two quarters at the college shall be placed on probation when his cumulative grade point average is below 1.80. Stu dents shall be notified as soon as possible when placed on probation Such action is noted on the student's official academic record.
Removal from Academic Probation: A student on academic probation will be removed from probation at the end of any quarter in which his cumulative grade point average reaches 2.00 or better.
Suspension for Low Scholarship: Any student on academic probation will be suspended if he fails to attain a 2.00 cumulative average at the will be suspended if he fails to attain a 2.00 cumulative average
Reinstatement of Suspended Students: Any suspended student may petition the Academic Standards Committee for reinstatement to the college Any student so reinstated will have probationary status. Such a student will be dropped: (1) if he fails to attain a 2.00 for the following quarter's work, or (2) if he fails to attain a 2.00 cumulative average at the end of two quarters subsequent to reinstatement. He will be removed from probation at the end of the quarter in which his cumulative grade poin average reaches 2.00 or better. Students who have shown marked improvement in their grades prior to suspension are encouraged to petition provement in their

Transfer Students: In determining a transfer student's academic status, the previous record is evaluated as though it had been earned at Southwestern Oregon Community College.
Physical Education Requirements: A student intending to obtain an As sociate in Arts degree must take five terms of Physical Education. Although five terms are required, not more than one hour of credit per term in activity courses (PE 180-190) is recommended. Exceptions must be approved by both the student's advisor and the Head of the Health and Physical Education Department. Physical Education majors should seek advice from the members of the P.E. Department in working out their schedules. Exemptions are allowed for the following reasons:

1. Health- If a physician recommends exemption and a written statement is filed with the Admissions Office. This must be done at the beginning of each term.
2. Age- If students are over 50 years of age, they may be exempted at the discretion of the Head of the Physical Education Depart ment. If they are between 35 and 50 years of age, at least three

## Academic Regulations

terms of Physical Education are required; the other two terms may be waived by the Head of the Physical Education Department
3. Veterans- Students who have completed six months of active military service in the Armed Forces of the United States are exempt from three terms of the Physical Education requirement. To qualify for exemption, such students must file official documentary evidence of their service with the Admissions Office.
4. Other- On very rare occasions an exemption may be granted for other reasons. A petition should be made to the Academic Standards Committee.

## AUDITORS

Students who do not wish college credit may register as auditors in any of the courses offered. Auditors are not required to meet any specific academic requirements but may participate fully in the activities of the class. If audit is desired, it should be so indicated at the time of registration. With permission of the instructor, a student may enter a course for audit at any point during the term which he deems it of value to participate in the course. If a student wishes to add a course for audit or change his registration from credit to audit after the second week of the term, he may do so by completing the "drop-add" form, obtaining the instructor's initials, and returning the form to the Admissions Office.

## CHANGE OF REGISTRATION

For two weeks after start of classes, a student may drop courses, add courses, and change from credit to audit or audit to credit by completing a drop-add form and filing it in the admission office. Students should check the academic calendar for drop-add deadlines and should check schedule of fees for possible fee changes.

## SELECTIVE SERVICE

To be certified as a "full-time" student for Selective Service purposes, a student must progress at a rate that will insure his completion of 93 credit hours within two academic years. This means that he must average $151 / 2$ credits or units per term. For certification as a sophomore at the beginning of his second year, a student must have completed 45 credits or units during his first year.
It is the student's responsibility to make any request of his local Selective Service System Board for change of classification. He should notify the Admissions Office of any materials he wishes to have sent to the local board for their consideration. It is the student's responsibility to inform his local board immediately of any change in his school program that would affect his status with the Selective Service System.

## Degrees and Requirements

## DEGREES

Southwestern Oregon Community College awards two degrees - Associate in Arts and Associate in Science. The following degrees may be awarded (by application and subject to approval by the Dean of Instruction):

THE ASSOCIATE IN ARTS to those students who complete the requirements of the lower-division liberal arts program.
THE ASSOCIATE IN SCIENCE to those students who complete the requirements of a departmental curriculum when such require-
ments represent the completion of an organized two-year program.
Certificate of Completion may be awarded to those students. who complete the requirements of some less-than-degree curriculum.
For persons completing degree requirements at the end of summer, fall, or winter term rather than at June commencement time, Associate in Science and Associate in Arts degrees will be conferred three weeks from the date that requirements have been met. In order to receive a degree at these times, previous application must be filed with the Registrar. The degree will be awarded by means of a letter, and diplomas will be mailed during June following the awarding of the degree.
Requirements completed in summer, fall, or winter term for Certificates Requirements completed in summer, fall, or winter term for Certificates of Completion for some less-than-degree curriculum will be awarded in he same manner
The cost for the diploma will be the regular fee of $\$ 5.00$.

## APPLICATION FOR DEGREES

Candidates must apply for degrees and certificates through the Admission Office. Applications should be made during winter term if the degree or certificate is to be conferred at the June commencement.

## ASSOCIATE IN ARTS DEGREE

The Associate in Arts Degree is a nationally recognized award that is conferred upon those who complete the general requirements of the lower-division liberal arts program.
General requirements for the Associate in Arts Degree:

1. Not less than 93 term hours of lower division courses approved by the Oregon State System of Higher Education for transfer credit.
2. Grade point average minimum of 2.00 (C average).
3. English Composition: 9 term hours (Wr. 111, 112, 113).
4. Health Education: HE 250, 3 term hours for both men and women.
5. Physical Education: 5 terms are required. Not more than one hour of credit may be earned in these courses in any one term except by petition and consent. Although five terms are required, not more than one hour of credit per term in activity courses (PE

## Degrees and Requirements

180-190) is recommended. Exceptions must be approved by both the student's advisor and the head of the Health and Physical Education Department
6. Required year sequence in each of the following groups:

Language and literature, science, and social science. A second year sequence must be chosen in one of the three groups. For a list of sequences that satisfy these requirements, see "Group Requirements" on page 28.
7. At least one of the sequences must be numbered in the 200 series.
8. At least one sequence in language and literature must be in literature.
9. The "second sequence" referred to in No. 6 above, if taken in one of the Social Sciences or Sciences, must be taken in a different department.
10. A student must attend Southwestern Oregon Community College at least two terms (including the final term) before the Associate in Arts Degree is awarded, and must have completed 24 term hours at the college.

## ASSOCIATE IN SCIENCE DEGREE

The Associate in Science Degree is offered by many technical schools and colleges in all parts of the United States. It is a recognized degree and is approved by the Oregon Board of Education.
General requirements for the Associate in Science Degree:

1. Minimum of 90 units of specified courses.
(see particular curriculum)
2. Grade-point average minimum of 2.00 (" C " average).
3. Complete the required courses as listed in the specific curricula. This must include 18 term units of approved general education subject.
4. Must attend the College at least two terms (including the last term) before degree is awarded, and must have completed 24 units at the College.

## GROUP REQUIREMENTS

A complete list of sequences approved for the satisfaction of requirements 6 through 9 above are listed below. These may be taken as electives also.

## English

## Language and Literature

Eng 104, 105, 106 Introduction to Literature
Eng 201, 202, 203 Shakespeare or
Eng 253, 254, 255 Survey of American Literature
3 hrs each
3 hrs each
3 hrs each

Languages (Applicable as a second literature sequence)
RL 101, 102, 103 Second-Year French
GL 101, 102, 103 Second-Year German
General Science
GS 104, 105, 106 Biology
Bi 101, 102, 103 General Biology
Botany
Bot 201, 202, 203 General Botany
Chemistry
Ch 104, 105, 106
$\mathrm{Ci}_{1}$ 201, 202, 203 General Chemistry
Mathematics

Physics
Ph 201, 202, 203
Zoology
Z 201, 202, 203

## Anthropology <br> Anthropology

Anth 101, 102, 103
Anth 207, 208, 209
Anth 207, 208, 209 Introl
Economics
Ec 201, 202, 203
Geography
Geog 105, 100, 107
History

Political Science
PS 201, 202, 203 American Government
Psy 201, 202, 203 General Psychology
Sociology
Soc 204, 205, 206 General Sociology

Elementary Chemistry
Science

Mth 101, 102, 200 College Algebra, Trigonometry and Calculus
(First year sequence) 4 hrs. each
Mth 104, 105, 106 Introduction to college mathematics
Mth 201, 202, 203 Calculus with Analytic Geometry second year
Mth 191, 192, 193 Mathematics (any three of this group) 4 hrs each

Hst 101, 102, 103 History of Western Civilization 3 hrs . each
Hst 201, 202, 203 History of the United States 3 hrs . each
4 hrs. each
4 hrs. each

4 hrs. each
4 hrs. each
4 hrs . each
5, 4, 4 hrs. each 4 hrs. each Mathematics for Elementary Teachers

3 hrs each
General Physics 4 hrs . each
General Zoology
4 hrs. each Social Science

General Anthropology
Introduction to Cultural Anthropology
Principles of Economics
3 hrs. each
3 hrs. each
3 hrs . each
3 hrs . each

3 hrs. each
3 hrs . each
3 hrs . each

## Sacaly 65



Anderson, John B., B.S.E.E.; Assistant Professor, Technical-Vocational Ed ucation; B.S.E.E. (1960), Oregon State University. Registered Electrical Engineer. Approved Vocational Instructor,
Anderson, Phillip M., M.A.; Coordinator of Student Activities, Assistant Professor of English; A.A. (1962), Monterey Peninsula College; B.A. (1964), M.A. (1966), San Francisco State College.

Andrews, Wayne, Associate Professor of Industrial Mechanics. Approved Vocational Instructor.
Barber, Rodger; Instructor of Industrial Mechanics. Approved Vocational Instructor.
Bates, Dale J., M.S.; Assistant Professor of Health and Physical Education, and Director of Athletics; B.S. (1953), Southern Oregon College; M.S. (1965), University of Oregon.

Baxter, Bryce, M.S.; Assistant Professor of Mathematics; B.S. (1956), Eastern Oregon College; M.S. (1962), Oregon State University.
Brookins, Jack E., M.Ed.; Professor and President of the College; B.Ed. (1950); M.Ed. (1954), Colorado State University.

Buckner, Harold R., M.F.A.; Assistant Professor of Art; B.A. (1964), Seattle University; B.F.A. (1966), M.F.A. (1968), University of Washington.
Burdg, Donald E., M.S.; Associate Professor of Mathematics; B.S. (1951), Colorado State University; M.A. (1952), Colorado State College; M.S. (1966), Oregon State University.

Chilla, Edward M., Jr., M.F.A.; Instructor in Speech and Drama; B.A (1962) San Jose State College; M.F.A. (1969) University of Oregon.

Croft, Robert, M.S.; Associate Professor of History and Political Science; B.S. (1950); M.S. (1951), University of Oregon.

Cumpston, Sam E., M.S., Associate Professor of Mathematics and Physics. B.S. (1942) U. S. Military Academy, West Point; M.S. (1948) University of Chicago.
Dahl, James C., M.A.; Assistant Professor of English; B.A. (1954) University of Minnesota; M.A. (1960) University of Iowa.
Dibble, Robert J., M.S.; Assistant Professor of Psychology and Counseling; A.B. (1949), Colorado College; Th.M. (1952), Iliff School of Theology; M.A. (1965), Whitworth College; M.S. (1966), Eastern Washington State.

Donelson, Halleck L., M.S.; Assistant Professor of Physical Science; B.A (1941), Linfield College; M.S. (1964), A \& T College of North Carolina.
Douthit, Nathan, M.A.; Instructor of History; B.A. (1960) Harvard University; M.A. (1965) University of California.
Elberson, Stanley D., Ph.D.; Associate Professor of Speech and Drama; B.A. (1951); B.E. (1953), Pacific Lutheran University; M.S. (1962), University of Utah; Ph.D. (1968), University of Oregon.
Fawver, Ben J., Ph.D.; Professor of Biological Science; B.Ed. (1941), Illinois State Normal University; M.S. (1947); Ph.D. (1950), University of Illinois.
Ferguson, Helen W., Assistant Professor of Business. Approved Business Instructor.
Ferguson, James E., M.A.; Assistant Professor of Geography; B.A. (1964); M.A. (1965), Oregon College of Education.

Goetschalckx, Phillip; Assistant Professor of Industrial Mechanics. Ap. proved Vocational Instructor.
Goldberg, Shirley E., M.A.; Assistant Professor of English; B.A. (1945), Reed College; M.A. (1951), University of California.
Grossman, Richard, M.A.; Instructor of Business (Secretarial Science). B.S.B.A. (1965) Denver University; A.A. (1963) San Francisco City College; M.A. (1969) San Jose State College.
Haley, Tenison, D.Ed.; Associate Professor of Psychology, and Dean of Student Services; B.S. (1954), Washington University; M.Ed. (1958); D.Ed. (1963), University of Oregon.

Hall, Howard A., M.F.A.; Assuciate Professor of Fine Arts; B.S. (1949); M.F.A. (1951), Úniversity of Oregon.

Haug, Gretta, M.S.Ed.; Assistant Professor of English; B.A. (1956) Pacific University; M.S.Ed. (1963), University of Oregon.
Horning, William, M.S.; Assistant Professor of Health and Physical Education and Cross Country, Wrestling, and Baseball Coach; B.S. (1956), University of Minnesota; M.S. (1964), St. Cloud State.

Hoyt, Hugh, Ph.D.; Professor of History; A.B. (1951); M.A. (1953), Sacramento State College; Ph.D. (1966), University of Oregon.
Humphrey, Thomas, M.S.; Associate Professor of English and Literature; B.S. (1959); M.S. (1961), University of Oregon.

Hunter, John G., M.Ed.; Instructor in Psychology and Counselor, Coordinator of Admissions; B.S. (1964), Oregon State University; M.Ed. (1967), University of Oregon.

Kemper, Beverly, M.Ed.; Assistant Professor of Health and Physical Education; B.S. (1958); M.Ed. (1965), Oregon State University.
LaFond, Isabelle, R.N.; Associate Professor, Practical Nurse Training. St. Barnabas Hospital School of Nursing (1931); B.S. (1962), University of Oregon School of Nursing, Nursing Education.
Land, Alfred M., Jr., M.S.; Assistant Professor of Business and Technology; B.S. (1958); M.S. (1962), University of Oregon. Approved Vocational Instructor.
Lemoine, Norman W., M.S.; Instructor in Forestry; B.S. (1961), University of Massachusetts; M.S. (1967), University of Minnesota.
Leuck, Frank, M.M.; Assistant Professor of Music; B.S. (1951), Lewis \& Clark; M.M. (1961), Eastman School of Music.
Loeber, Thomas S., M.S.; Assistant Professor of Political Science; B.A. (1948), Pomona College; M.S. (1950), University of Massachusetts; M.S. (1963), University of California at Los Angeles.

Love, James O., M.A.; Assistant Professor of Business; A.A. (1957), East Los Angeles Junior College; B.A., (1961); M.S. (1967), San Francisco State College.
McConaughy, Richard, M.A.; Instructor of Psychology; B.A. (1962) University of Nevada; M.A. (1969) University of Oregon.
Meacham, Bernell, M.S.; Assistant Professor of English and Journalism; B.S. (1941), Utah State University; M.S. (1943), Northwestern University. (On Sabbatical leave 1970-71).
Moffitt, Donald R., M.Ed.; Associate Professor of Business; B.S. in Commerce (1960), Ferris State College; M.Ed. (1964), Oregon State University. Approved Vocational Instructor.
Muller, Erik, M.A.; Assistant Professor of English; B.A. (1962) Williams College; M.A. (1965) University of Oregon.
Murray, Nicholas, M.A.; Assistant Professor of English; B.A. (1963) Grinnel College; M.A. (1965) University of Washington.
Piercey, James R., M.Ed.; Associate Professor, Assistant Dean of Instruction and Director of Vocational Education; B.S. (1959), Western Washington College; M.Ed. (1967), University of Washington.

Publicover, Vanda R., M.S.; Assistant Professor of English; B.A. (1954), M.S. (1955), University of Oregon.

Rulifson, John R., Ph.D.; Professor of History and Dean of Instruction. B.A. (1953), University of Portland; M.A. (1957) University of Washington; Ph.D. (1967), University of Washington.
Ryan, Philip, M.A.; Associate Professor and Coordinator of Data Processing Computer Center; B.S. (1944), University of Missouri; B.A. (1950); M.A. (1953), University of Denver.

Sharp, William W., M.B.A.; Assistant Professor of Business; B.A. (1959), University of Maryland; M.B.A. (1962), University of Oregon. Approved Vocational Instructor.
Shumake, James M., M.S.; Assistant Professor of Biology; A.A.S. (1962), Orange County Community College; B.S. (1964), Florida State University; M.S. (1966), Oregon State University.
Simmons, Jack Lee, M.S.; Instructor in Physics; B.S. (1960), University of Washington; M.S. (1966), Seattle University.
Smith, David E., M.A.; Assistant Professor of Music and French; B.A. (1950), Middelbury College; M.A. (1965), University of San Francisco.
Sorenson, Vernon C., M.A.; Associate Professor of Languages; B.A. (1947), University of Utah; M.A. (1965), University of Oregon.
Stender, Veneita, B.S.; Assistant Professor of Home Economics; B.S. (1955), University of Idaho; M.S. (1969), Oregon State University. Approved Vocational Instructor.
Stubbs, Ronald D., M.A.; Assistant Professor of Anthropology and Sociology; B.A. (1965); M.A. (1966), University of Montana.
Swearingen, Jack H., Ph.D.; Professor of English; B.A. (1947); M.A. (1954); Ph.D. (1968), University of Texas.

Toribio, Andres P., M.S.; Assistant Professor of Mathematics; B.S. (1959), University of Oregon; M.S. (1966), Oregon State University.
Williams, Dortha A., M.L.; Assistant Professor of Librarianship; B.A. (1956) West Texas State University; M.L. (1967) University of Washington.
Wolfsehr, Clifford, M.A.; Assistant Professor of English; B.A. (1943) Linfield College; M.A. (1953) University of Minnesota; M.A. (1947) Washington State.

## Part-time Faculty

Alto, Victor; Instructor, Carpenter Apprentice. Approved Vocational and Adult Instructor.
Ames, Darrel; Instructor, Accounting. Approved Vocational and Adult Instructor.
Arbus, William; Instructor, Biology. Approved Vocational and Adult Instructor.
Arrambide, Anthony; Instructor, Conversational Spanish. Approved Vocational and Adult Instructor.
Auvil, Carroll; Instructor, Electronics. Approved Vocational and Adult Instructor.
Barnes, Mary; Instructor, Home Economics (Nutrition). Approved Vocational and Adult Instructor.
Bartholomew, Edward; Instructor, Supervision. Approved Vocational and Adult Instructor.
Baumgartner, James; Instructor, Business (Income Tax Workshop). Approved Vocational and Adult Instructor.
Bennett, Steve; Instructor, Law Enforcement. Approved Vocational and Adult Instructor.
Britton, Thomas; Instructor, Drafting. Approved Vocational and Adult Instructor.
Bruce, Carol B.; Instructor, Home Economics. Approved Vocational and Adult Instructor.
Burdon, Richard F.; Instructor, General Agriculture. Approved Vocational and Adult Instructor.
Conrad, Dale; Instructor, Spanish. Approved Vocational and AduIt Instructor.

Dedmon, William; Instructor, Industrial Mechanics. Approved Vocational and Adult Instructor.
Dollowitch, Patricia J.; Instructor, Music. Approved Vocational and Adult Instructor.

Doty, Irwin; Instructor, Business. Approved Vocational and Adult Instructor.
Estes, Arthur J.; Instructor, Judo, Law Enforcement. Approved Vocational and Adult Instructor.
Farr, Donald; Instructor, Business (Retail). Approved Vocational and Adult Instructor.
Freeman, Frank; Instructor, Supervision. Approved Vocational and Adult Instructor.
Freeman, Wayland; Instructor, Plumbing Apprentice. Approved Vocational and Adult Instructor.
Gant, Virginia; Instructor, Physical Education (Creative Dance). Approved Vocational and Adult Instructor.
Gleaves, William; Instructor, Business (Securities \& Investing). Approved Vocational and Adult Instructor.
Greenlund, Mary Anne; Instructor, Home Economics. Approved Vocational and Adult Instructor.
Grey, Donald; Instructor, Art. Approved Vocational and Adult Instructor.
Higgs, James D.; Instructor, Aviation Ground School. Approved Vocational and Adult Instructor.
Hutchinson, Robert; Instructor, Sheetmetal Apprentice. Approved Vocational and Adult Instructor.

Johnson, Evalyn; Coordinator, Reedsport. Approved Vocational and Adult Instructor.

Johnson, Oscar; Instructor, Supervision. Approved Vocational and Adult Instructor.

Johnston, JoAnn; Instructor, Business. Approved Vocational and Adult Instructor.
Jones, Duncan; Instructor, Power Lineman Apprentice. Approved Vocational and Adult Instructor.

## Part-time Faculty

Karl, Margaret; Instructor, Art. Approved Vocational and Adult Instructor.
Kelley, Raymond; Instructor, Mathematics. Approved Vocational and Adult Instructor.
Kiander, Dolores; Instructor, Physical Education (Swimming). Approved Vocational and Adult Instructor.

Kraus, William; Instructor, Mathematics. Approved Vocational and Adult Instructor.

Lansing, William; Instructor, Wood Industries Technology. Approved Vocational and Adult Instructor.

Lavan, James; Instructor, Conversational Japanese. Approved Vocational and Adult Instructor.

Leake, Nancy; Instructor, Business. Approved Vocational and Adult Instructor.
Lee, Walter S.; Instructor, Law Enforcement. Approved Vocational and Adult Instructor.
Leegard, Ellsworth J.; Instructor, Welding. Approved Vocational and Adult Instructor.
Lesan, Jerry; Instructor, Law Enforcement. Approved Vocational and Adult Instructor.
Lorence, Kay; Instructor, Basic Education. Approved Vocational and Adult Instructor.
Ludlow, Stanley; Instructor, Physical Education. Approved Vocational and Adult Instructor.
Lundholm, Yvonne; Instructor,' Business. Approved Vocational and Adult Instructor.

Maurer, Geraldine; Instructor, Physical Education (Swimming). Approved Vocational and Adult Instructor.

McKnight, Diane; Instructor, Home Economics. Approved Vocational and Adult Instructor.

Moehl, Martha; Instructor, Biology Lab Assistant. Approved Vocational and Adult Instructor.

Morton, Jacqueline; Coordinator, Coquille. Approved Vocational and Adult Instructor.

Muir, Andrew; Instructor, Electrical Apprentice. Approved Vocational and Adult Instructor.
Ormsbee, Orrin; Instructor, Business. Approved Vocational and Adult Instructor.

Oxford, Lydia M.; Instructor, Driver Education. Approved Vocational and Adult Instructor.

Schwartz, Ed; Instructor, Wood Industries Technology. Approved Vocational and Adult Instructor.
Shaw, Audrey; Instructor, Advertising. Approved Vocational and Adult Instructor.
Spaugh, Sara; Instructor, Art. Approved Vocational and Adult Instructor.
Stoll, Eli; Instructor, Automotive Mechanics. Approved Vocational and Adult Instructor.
Vanderhoof, George; Instructor, Welding. Approved Vocational and Adult Instructor.
Vaughan, Dorothy; Instructor, Home Economics. Approved Vocational and Adult Instructor.
Wehrle, Clare; Instructor, Art. Approved Vocational and Adult Instructor.
Wilson, Clotis; Instructor, Progressive Helper. Approved Vocational and Adult Instructor.
Wirth, E.; Instructor, Art (Ceramics). Approved Vocational and Adult Instructor.
Wright, Norman; Instructor, Electrical Apprentice. Approved Vocational and Adult Instructor.
Zarbano,, Sebastiano; Instructor, Law Enforcement. Approved Vocational and Adult Instructor.

## SOUTHWESTERN OREGON AREA EDUCATION DISTRICT



## Oregon's Community College System

Community colleges in the State of Oregon now number 12
To learn of the opportunities offered at the other community colleges, we remind you that catalogs for these schools are available in the Office of Student Services in Dellwood Hall, the administration building.

## DIRECTORY

BLUE MOUNTAIN COMMUNITY COLLEGE 2410 N.W. Garden Ave.
Box 100, Pendleton 97801
Phone: 276-1166
CENTRAL OREGON COMMUNITY COLLEGE
College Way
College Way
Phone: $382-6112$

CLACKAMAS COMMUNITY COLLEGE 270 Warner Milne Road
Oregon City 97045
Phone: 656-0675

CLATSOP COMMUNITY COLLEGE
16th and Jerome
Astoria 97103
Phone: 325-0910

LANE COMMUNITY COLLEGE 4000 E. 30th Ave
Eugene 97405
Phone: 747-4501

LINN-BENTON COMMUNITY COLLEGE
203 W. First Avenue
Albany 97321
Phone: 926-6092

MT HOOD COMMUNITY COLLEGE
26000 S.E. Stark
Gresham 97030
Phone: 665-1131

PORTLAND COMMUNITY COLLEGE
12000 S.W. 49th Ave.
Portland 97219
Phone: $\quad 224-3040$

CHEMEKETA COMMUNITY COLLEGE 4389 Satter Drive N.E.
Salem 97303
Phone: 585.6166

SOUTHWESTERN OREGON
COMMUNITY COLLEGE
Coos Bay 97420
Phone: 888-3234

TREASURE VALLEY COMMUNITY COLLEGE 650 College Boulevard
Ontario 97914
Phone: 889-6493

UMPQUA COMMUNITY COLLEGE
Box 967
Roseburg 97470
Phone: 672-5571

## 71 Gimaral Indar

| Academic Calendar .... Front Cover |
| :---: |
| Academic Regulations ....----.-... 61 |
| Accreditation |
| Activities, Student ------------3... 13 |
| Administration, College ..----. 2, |
| Administration, Listing |
| Admission, Procedures for .----- 6 |
| Adult Basic Education .............. 21 |
| Adult Education Program ........ 16 |
| Advising .................................... 11 |
| Advisory |
| Technical-Vocational ............. 16 |
| Agriculture |
| Appeals, Student ...---------------13 |
| Apprenticeship Classes ........ 20, 49 |
| Associate Degrees .................... 63 |
| Athletics .-------------------------------13 |
| Auditors |
| Board of Education, Listing of |
| Bookstore |
| Budget Committee, Listing |
| Business Administration ........... 55 |
| Business Extension Classes .... 20 |
| Business Technology .. 17, 26, |
| Certificate Programs, Business 17 |
| Community Services Program .. 3 |
| Conduct and Appeals, Student .. 13 |


Data Processing
Computer Technology .. 17, 27 Electronics
Engineering Technology 18, 28
Industrial Mechanics ............ 19 Industrial
Supervisory Training .--....... 29
$\qquad$
Practical Nursing .-.---....-19, 19, 29
Secretarial Technology .-.-....... 30
Stenography ...............-.-..........- 31
Wood Industri
Technology ............ 20, 31, 46
Degrees and Certificates $\qquad$ 63
Degrees, Diplomas and Certifi
cates, Technical-Vocational .. 16
Distributive and Sales
Extension Classes 20
District Board of Education,
Listing of ..... 4
Electrical-Electronics Technology ..... 18, 28
Entrance Requirements,
54Entrance Requirements,
Technical-Vocational ..... 16
Examinations ..... 62
Facilities ..... 2
Faculty, Certification of ..... 2
Faculty, Listing of ..... 66
Fee Refunds ..... 9
Fees and Tuition ..... 7.9
Financial Aids ..... 12
Fine Arts ..... 55
Foreign Student Advising ..... 11
Committee, Members of4
G.E.D. Examinations ..... 11
General Education Programs 16, 2Grade Changes62
Grading ..... 61
Graduation Requirements19
Group Requirements, Degree .....  64
History, College ..... 2
Home and Family Life Extension Classes ..... 20
Home Economics ..... 18
Honor Roll ..... 62
Housing, Student ..... 13
Industrial and Technical Extension Classes ..... 20
Industrial Mechanics

$\qquad$
19
Intramurals and Athletics ..... 13
Jobs, Placement in ..... 13

| Learning Resource Center .--- |  |
| :---: | :---: |
|  | ate Regist |
| Law Enforcement Program ...-. |  |
| Liberal Arts and Sciences .----... 54 |  |
| Library .---......------------................ |  |
| Loans ...........-----.-.................... 12 |  |
| Location, College .-.-.-.......-...... 2 |  |
| Lower Division <br> General Education $\qquad$ 54 |  |
|  | Map, Campus |
| Map, District .-..-.--.......---------- 70 |  |
| Management and Supervisory <br> Extension Classes $\qquad$ |  |
|  | Metal-Mechanical Department |
| N.D.E.A. Loans .-.......---------1. 12 |  |
| Nursing, Practical -----........ 19, 29 |  |
|  | $\underset{\text { Program }}{\substack{\text { Occupational } \\ \text { O...................- 16, } 20}}$ |
| Occupational Preparatory <br> Program $\qquad$ 16 |  |
| Organizations, Student <br> Orientation Seminars $\ldots-\ldots . . . . . . .-13$ <br> $----\quad 7$ |  |
|  | Orientation Seminar |
| Part-Time and <br> Special Programs $\qquad$ 20 |  |
| Physical Education, <br> Requirements in $\qquad$ 62 |  |
| Practical Nursing .-.......-.... 19, 29 |  |
| Pre-Registration ........-.....-........ |  |
| Probation, Academic ----.....-.... 62 |  |
| Public and Protective Services <br> Extension Classes $\qquad$ 21 |  |

Publications, Student ..... 13
Purposes, College ..... 3
Refunds, Fee ..... 9
Registration, Change of ..... 63
Registration, Procedures for ..... 7
Reinstatement to College ..... 62
Scholarships ..... 12
Scholastic Status ..... 62
Secretarial Technology ..... 17
Selective Service ..... 63
Student Center ..... 13
Student Services ..... 11
Study Center ..... 11
Summer Session ..... 3
Supervisory Training
62
Suspension ..... 62
Technical-Vocation Adult Education ..... 16
Transcripts ..... 7
Transfer Courses, Descriptions of

$\qquad$
55-59
Transfer Credit ..... 62
Transfer Education ..... 54
Tuition and Fees ..... 7
Tuition Offset Allowance ..... 9
Tutorial Programs ..... 13
Withdrawals ..... 7
Wood IndustriesTechnology
$\qquad$ $20,31,46$


## SOUTHWESTERN OREGON COMMUNITY COLLEGE



CAMPUS DIRECTORY
A. TIOGA HALL

Gine Art, fifth fioor, Home. Economics, fitth floor Drafting, fifth floor, Stidy Center, foutht loot, Listening Centet, fouth floor Student lounge, thind floor Lifrory, math tloot Booktore. iover Iexet Audiot VIsuai, 10 wet feyel
b. SItKUM HALL classrooms Faculty offaces
C. COALEDO HALL

Clossrooms
Faculty Offices
D.. RANDOLPH HALL

Clotsroomst
Foculty Offices
Foculfy Lounges
E. DELLWOOD HALL

Student, Services
Administration.
Communliy Services
F. SRROSPER HALL

Gymanginm.
Physical Educotion Theatres

Automotive Shops
Welding;
Industifol Mechantes
Mochine Shop
H/ MAINTENANCE SHOP

1. SOUTH PARKING LOT
J. NORTH PARKING LOT
K.. EMPIRELLAKES

NATURE TRAIL
l. playfield

