

COLUMBIA
JUNIOR
COLLEGE

1975-1976



COLUMBIA
COLLEGE
LIBRARY

Columbia, CA 95310

PHILOSOPHY

This Community College is dedicated to the worth and dignity of each student. Its primary responsibility is to the goals of the student, his needs, desires, and aspirations.

We believe an effective education teaches that one has a life to live as well as a living to earn. Columbia Junior College will, therefore, involve each student in opportunities for developing his capabilities to become a useful and contributing member of society. This objective will be accomplished through a living, dynamic, and continuing experience in which each individual can confront opportunities to participate actively in the learning process. In effect, education will not happen to him, but with him and by him.

COLUMBIA JUNIOR COLLEGE

P. O. Box 1849
Columbia, California
95310
(209) 532-3141

1975 - 1976



YOSEMITE JUNIOR COLLEGE DISTRICT

PRICE \$1.00

FALL QUARTER 1975

SEPTEMBER

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- August 1 Application for Admission and Transcripts for Day Students Should Be on File
- August 11 Beginning Advisement for New and Former Students for Fall Quarter
- September 12 Registration for Fall Quarter
- September 15 Instruction Begins
- September 19 Last Day to Enter a Class
- September 29 Deadline for Filing Intent to Graduate for Fall Quarter
- November 11 Veterans' Day Holiday
- November 17 Beginning Advisement for Continuing Students for Winter Quarter
- November 27-28 Thanksgiving Holiday
- Dec. 15, 16, 17, 18 ... Final Examinations
- Dec. 22-Jan 2 Christmas Recess

WINTER QUARTER 1976

JANUARY

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- November 3 Application for Admission and Transcripts for Day Students Should Be on File
- November 24 Beginning Advisement for New and Former Students for Winter Quarter
- December 19 Registration for Winter Quarter
- January 5 Instruction Begins
- January 9 Last Day to Enter a Class
- January 19 Deadline for Filing Intent to Graduate for Winter Quarter
- February 12 Lincoln Day Holiday
- February 13 Board Declared Holiday
- February 16 Washington Day Holiday
- March 15 Beginning Advisement for Continuing Students for Spring Quarter
- March 22, 23, 24, 25 .Final Examinations

SPRING QUARTER 1976

APRIL

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- March 1 Application for Admission and Transcripts for Day Students Should Be on File
- March 22 Beginning Advisement for New and Former Students for Spring Quarter
- March 26 Registration for Spring Quarter
- March 29 Instruction Begins
- April 2 Last Day to Enter a Class
- April 12 Deadline for Filing Intent to Graduate for Spring Quarter
- April 16 - *Good Friday*
- May 24 Beginning Advisement for Continuing Students for Fall Quarter
- May 31 Memorial Day Holiday
- June 7, 8, 9, 10 Final Examinations
- June 11 Graduation

SUMMER SESSION

JULY

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- May 24 Advisement for all Students
- June 28 Instruction Begins
- June 30 Last Day to Enter a Class
- July 5 Independence Day Holiday
- July 30 Five Week Summer Session Ends
- Aug. 2-Sept. 3 Various Special Short Courses Offered During This Period

BOARD OF TRUSTEES

YOSEMITE JUNIOR COLLEGE DISTRICT



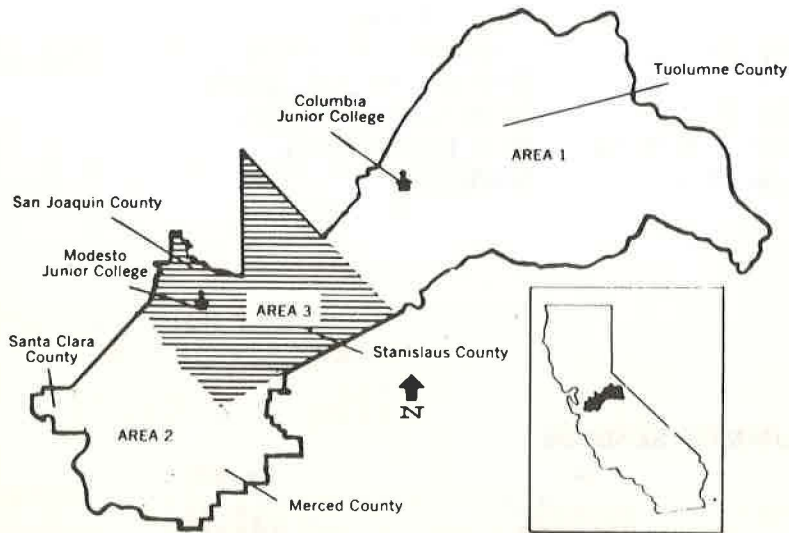
Allister A. Allen
Area 2, Patterson



Glenda Alpers
Area 3, Riverbank



*† Grant E. Bare, M.D.
Area 3, Modesto



*† Ian Hardle
Area 3, Modesto



*Carmen Jackson
Area 3, Turlock



*† Cecil G. Plummer
Area 3, Modesto



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Area 1, Sonora

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*Past President

†Charter Board Member

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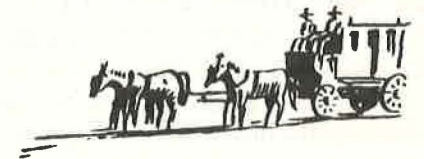
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A Guiding Principle . . .

Each student is a separate and unique individual who shall be accepted as such. It shall be the responsibility of each student and staff member to accept and perpetuate the philosophy of this College.

INCOMING STUDENTS



QUESTIONS OF INTEREST

Who May Attend Community College?

By State law, community colleges are open to high school graduates and other persons 18 years of age or older who can profit from instruction.

Am I Eligible to Attend Columbia Junior College?

Any legal resident of the Yosemite Junior College District is eligible to attend Columbia Junior College. All persons 18 years of age and older have the legal right to establish their own residence for purposes of admission.

Students living in an area not affiliated with a community college district are eligible to attend Columbia.

Residents of other community college districts may attend Columbia when they have obtained an attendance permit from their community college district of residence. (Page 16)

May International Students Attend Columbia?

Yes, Columbia welcomes international students provided they have proper visas, show financial responsibility, and meet other educational requirements. (Page 19-22).

Why Should I Read the College Catalog?

The catalog is the official document of the College. It sets forth policies, rules, and regulations of the institution. It is a guide for the services available to the student, provides information about the College, suggestions for course planning in order to determine graduation requirements, and descriptions of all courses. Catalogs may be purchased from the Manzanita Bookstore.

Which Catalog May I Follow?

Generally, you will follow the catalog in effect at the time of admission. However, you may choose to follow requirements of any subsequent catalog in effect during your enrollment at Columbia Junior College.

Are There Tuition Costs at Columbia?

There is no tuition fee for California residents. Nonresidents of California are required to pay an out-of-state tuition fee of \$21.00 per unit. Students will be charged for no more than a maximum of 15 units each quarter. International students are required to pay tuition fees of no more than 10 units each quarter.

How Much Will Books and Supplies Cost at Columbia?

Cost of books and educational supplies varies with the type of program the student is pursuing. Textbook and supply costs normally range from \$50 to \$75 per quarter. Some programs may be more expensive, others less.

Why Are Textbooks and Educational Supplies So Expensive?

The cost of educational supplies like most other products has risen sharply in recent years. Reflected in the cost of textbooks is the amount of scholarly effort that has gone into its production, the frequency with which it must be revised and its limited circulation.

How Can I Regain Some of My Textbook Investment?

The College-operated Manzanita Bookstore will buy back certain textbooks which will be reused in courses the following quarter. The trade-in price will depend on the condition, original cost, and resale value.

Does the Bookstore Make a Profit?

The Manzanita Bookstore is not in business to make a profit. Its function is to provide textbooks and quality educational supplies at the lowest possible price for students and faculty of Columbia Junior College. The cost of textbooks and supplies is primarily dictated by the firms that supply these materials. Any profits that may accrue from the bookstore operation are allocated to support student services and activities.

Are There Any Other Educational Expenses?

Again, this depends upon the type of program undertaken. Certain classes may assess special fees for consumable items such as materials used in welding, science, or art courses. Other classes may require insurance and/or special clothing such as some physical education classes. Special activity or field trip classes may require additional expenses. A health fee is assessed all day students each quarter. All fees are non-refundable and are due at the time of registration. These fees are indicated in the class schedule for each quarter.

What Kind of Living Accommodations Are Available?

There are no residence halls or dormitories on the campus at this time. Students must make their own arrangements for housing within the community. Listings of rooms, apartments, and houses are posted in the Admissions and Records Office.

How Much Should I Pay for Living Expenses?

The following cost breakdown for 9 months is used as a guide for single students:

	Dependent	"Declared" Independent
Necessary Materials	\$ 50	\$ 50
Books and Supplies	150	150
Meals and Housing	900	1300
Personal Expenses and Transportation	800	800
	<hr/>	<hr/>
	\$1900	\$2300

Will There Be Bus Transportation to the Campus?

Bus transportation is provided to students along routes in Tuolumne and Calaveras Counties. Information concerning bus schedules may be obtained in the Admissions and Records Office.

Are College Classes Available in Locations Other Than On The Campus?

The College, in an endeavor to meet student needs, offers a wide variety of classes in many locations throughout the community. These classes may meet in non-conforming facilities.

Are Scholarships or Student Loans Available?

Several scholarships, grants and student loans have been established. As more civic groups and organizations realize the need, it is anticipated additional loans and scholarships will become available.

Contact the Counseling Office for further information. (Page 27)

Where Can I Find Out About Job Placement?

The Placement Office maintains a list of job vacancies for students. This includes jobs reported by local employers and vacancies for student help on campus. On-campus jobs may include positions as library, bookstore, groundsman and laboratory assistants and part-time clerical helpers for College officers and faculty. (Page 27)

How Can A Counselor Assist Me?

Counselors are available to assist students with schedules, personal and social problems, housing, financial assistance, scholarships and general scholastic progress.

Is Evening Counseling Available?

Counseling and academic advisement is also available to evening students. Evening students needing counseling should inquire at the Admissions and Records Office.

Who Is My College Advisor?

Your college advisor is a faculty member who can help you design your program of study, assist in quarterly course planning and is available to discuss your academic progress throughout your tenure at Columbia.

How Will My Advisor Be Selected?

Your college advisor will be assigned on the basis of your intended program of study. Major advisors are selected on the strength of their experience in a particular specialty. They may have pursued a similar major, or they may have other experience in the field of study.

What is a College Major?

The college major is a suggested course of study for the attainment of special knowledge for an occupational or transfer study program. The major is designed to provide the necessary skills and information for the achievement of your individual educational goals.

Must I Select a Major?

You need not select a major prior to starting at Columbia Junior College. However, because many professional and occupational programs require specialized courses of study, it is desirable to select the major as soon as possible.

Who Will Help Me Select a Major?

If you have an idea about the occupation you would like to follow, the counselors or advisors can help you decide upon the most suitable major course of study. In the event you have not made any decisions, it is suggested you discuss your program with the counselors.

What If I Decide to Change My Major?

The choice of a college program of study and major is a decision to be made by the individual student. No one will insist you pursue a given major course of study. If you decide to change your major, talk with your advisor, and he will make suggestions as how to best pursue your goals.

What Courses Are Required For a Major?

The courses required for different majors may be obtained from your Advisor or from the Admissions and Records Office.

What Are Transfer Courses?

Courses numbered 100 and above are designated baccalaureate level courses. Courses numbered 1 to 99 are not intended for transfer, but may be accepted for transfer credit by agreement with specific four-year colleges and universities. If you know to which college you intend to transfer, it is wise to obtain a current catalog from that college. Your course of study at Columbia should be designed to coincide with that transfer institution. Your advisor can help you if you have questions. (Page 44-51)

What Is a Prerequisite? Why Do Some Classes Have Prerequisites?

A prerequisite is a requirement prior to entering certain courses. Prerequisites are intended to ensure you have sufficient preparation before entering a course to allow for a reasonable chance of success. (Page 31)

May Students Take Both Day and Evening Classes?

Classes are scheduled during day and evening as part of the total College program. Any student may select courses from the Schedule of Classes regardless of time of day the course is offered.

What Is The Learning Skills Center And Who Is It For?

The Learning Skills Center offers individualized learning programs designed to enhance the background of any student. It doesn't matter if you are an honor student wanting to brush up on vocabulary and reading skills or someone who needs help in mastering the skills of reading, writing, spelling, and math. Flexible scheduling will allow you to come in anytime your schedule permits and will also allow you to enter any course of instruction at any time and develop your abilities.

Is Career Information Available?

The college maintains a career information library to assist students in planning their career goals. Counselors are available to aid in career decision-making. This may include interest and aptitude testing when appropriate.

Is There a Student Association?

All students are members of the Associated Students of Columbia

Junior College and they in turn develop a student government. Student Government is a representative group of students which is responsible for the conduct of student affairs, coordinates the social activities of campus organizations, and serves as spokesman for the student body. The government is developed to fit the needs of the students at that particular time.

Are There Student Activities?

The College philosophy states that the type and extent of student activities should be developed by the student body rather than by the College. Clubs, discussion groups, or committees may be created by individual student initiative through mutual involvement of the Student Government and College staff consistent with district policy and College procedures. Columbia is your community college and will be responsive to your interests.

Why Should I Become Active in Student Affairs?

There are a number of reasons for becoming active in student affairs. College life should be a time of becoming aware of your society and developing an involvement with your society. Columbia is your school, and the more you become active in your school affairs the more Columbia becomes the kind of institution you want to attend. The faculty looks to the student body for the types of student activities desired.

How Can I Go About Starting a Student Activity?

First of all, you should discuss your ideas with your fellow students and formulate a plan that you would like to see in operation at Columbia. The Student Activities Office will help in the recommendation of a faculty member as advisor who will help you inaugurate a sound program. You are urged to pursue the development of important co-curricular activities and become personally involved.

Does the College Have Inter-Collegiate Athletics?

The College participates on a "free lance" basis in cross country, golf and tennis competing against other California junior colleges. In Skiing, the College is a member of the Pacific Coast Inter-Collegiate Ski Conference. Competition is offered in the Alpine and Nordic events. Conference members include University of California at Berkeley, University of California at Davis, Stanford University, University of Nevada, Menlo College, College of the Siskiyous, Sierra College and Feather River College.

Does the College Offer A Summer Session?

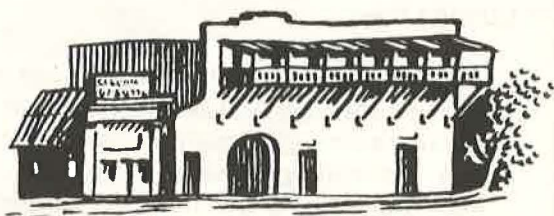
Yes. Summer Session offerings are generally scheduled for five weeks, but many courses are offered in shorter blocks of time throughout the summer. Every attempt is made to offer a balanced curriculum including courses which are necessary for transfer and vocational credit as well as those kinds of courses which capitalize on the unique environment surrounding the College.



A Guiding Principle . . .

This College shall provide a focus on learning as an individual process that can best be accomplished through active involvement in a setting of reality. It shall be recognized that learning is a logical outgrowth of experiences that are meaningful to each student and not the rote acquisition of a specific body of knowledge.

ADMISSIONS



ADMISSIONS

Eligibility

Graduates of accredited high schools or persons 18 years of age or older who are able to profit from instruction and who meet the residence requirements are eligible for admission to Columbia Junior College.

Admission with previously earned credits will be granted upon evidence of official transcripts showing satisfactory scholarship and an unqualified honorable dismissal from an accredited college. The student should request the previous colleges of attendance to mail transcripts directly to Columbia Junior college.

Residence Requirements

Persons 18 years of age and older have the legal right to establish their own residence for purposes of admission.

A statement verifying legal residence is required to be filed with the College prior to initial registration. A student is qualified to attend Columbia Junior College if he meets one of the following residence requirements:

- (1) Is a legal resident of the Yosemite Junior College District with a local address.
- (2) Is a legal resident of a California high school district not affiliated with a community college district.
- (3) Is a legal resident of another California community college district and presents a proper permit from that district to attend Columbia Junior College.
- (4) Is a student whose legal residence is in another state and pays the out-of-state fee.
- (5) Is an international student who complies with special admission requirements and pays the non-resident fee.

Admission of Non-resident Students

Columbia Junior College accepts students who are residents of other states if they meet all admission requirements. An adult is a non-resident if he has not resided in California for one year prior to the opening date of the quarter. A minor's residence is the same as that of his parents or legal guardian.

Residency determination dates for 1975-76 are September 15, 1975 for Fall Quarter; January 5, 1976 for Winter Quarter; March 29, 1976 for Spring Quarter; and June 28, 1976 for Summer Session. See page 8 pertaining to expenses for out-of-state tuition. Questions regarding determination of residency should be referred to the Dean of Student Services.

Interdistrict Attendance Permits

The Yosemite Junior College District, under the provisions of the education code of the State of California, has issued a Notice of Restriction of Attendance to each community college district in California.

Students residing in other community college districts may attend Columbia Junior College under specific terms of interdistrict attendance agreements. Agreements may be negotiated and permits issued when it is demonstrated to be in the best interest of the student or necessary for his educational objectives to attend a college other than in his district of residence.

The Notice of Restriction of Residence applies to the following California Community College Districts:

<i>Allan Hancock Community College District</i>	<i>Monterey Peninsula Community College District</i>
<i>Antelope Valley Jt. Community College District</i>	<i>Mount San Antonio Community College District</i>
<i>Barstow Community College District</i>	<i>Mt. Jacinto Junior College District</i>
<i>Butte Community College District</i>	<i>Napa Community College District</i>
<i>Cabrillo Community College District</i>	<i>North Orange County Community College District</i>
<i>Cerritos Community College District</i>	<i>Oceanside - Carlsbad Community College District</i>
<i>Chaffey Community College District</i>	<i>Palo Verde Community College District</i>
<i>Citrus Community College District</i>	<i>Palomar Community College District</i>
<i>Coachella Valley Community College District</i>	<i>Pasadena Area Community College District</i>
<i>Coast Community College District</i>	<i>Peralta Community College District</i>
<i>Compton Community College District</i>	<i>Rancho Santiago Community College District</i>
<i>Glendale Community College District</i>	<i>Redwoods Community College District</i>
<i>Grossmont Community College District</i>	<i>Rio Hondo Community College District</i>
<i>Hartnell Joint Community College District</i>	<i>Riverside Community College District</i>
<i>Imperial Community College District</i>	<i>Saddleback Community College District</i>
<i>Kern Community College District</i>	<i>San Bernardino Community College District</i>
<i>Lassen Community College District</i>	<i>San Diego Community College District</i>
<i>Long Beach Community College District</i>	<i>San Francisco Community College District</i>
<i>Los Angeles Community College District</i>	
<i>Los Rios Community College District</i>	
<i>Marin Community College District</i>	
<i>Mendocino County Community College District</i>	
<i>Merced Community College District</i>	

San Joaquin Delta Community College District
San Jose Community College District
San Luis Obispo County Community College District
San Mateo Community College District
Santa Barbara Community College District
Santa Clarita Community College District
Santa Monica Community College District
College of the Sequoias Community College District
Shasta-Tehama-Trinity Jt. Community College District
Sierra Joint Community College District
Siskiyou Joint Community College District

Solano County Community College District
Sonoma County Junior College District
South County Joint Community College District
South Lake Tahoe Community College District
State Center Community College District
Sweetwater Community College District
Ventura County Community College District
Victor Valley Community College District
West Hills Community College District
West Kern Community College District
West Valley Community College District
Yuba Community College District

Admission Procedures

Students who desire admission to Columbia Junior College are to complete and return application forms to the College Admissions and Records Office. Application forms are available from Columbia Junior College, high school counselors in the Yosemite Junior College District or may be obtained by writing to the College. Before admittance, official transcripts for all previous college work must be received by the College. If no transcript is available due to withdrawal, an official letter stating this fact is required.

It is the student's responsibility to furnish the College with official documentation for previous college work or training to be evaluated for credit.

Applications should be submitted no later than four weeks prior to the beginning of each quarter. A local address must be submitted before completion of registration.

Readmission

A student who plans to return to Columbia Junior College after an absence of one calendar quarter or more must file an application for readmission. Transcripts are required if the student has attended another college since last attending Columbia Junior College.

Notice of Acceptance

New and former day students will be notified officially of their counseling appointment after all application forms and documents have been received. Early counseling is desirable to allow the student a maximum choice of classes.

Schedule of Classes

A Schedule of Classes is the official listing of courses. It is published each quarter of the academic year.

Schedule of Classes contains information regarding registration dates and special instructions for registering in classes.

The College reserves the right to make additions or deletions to the Schedule of Classes. Any class in which the enrollment is too small to justify continuance may be cancelled.

Accident Insurance

Insurance coverage is required in a few selected classes where the type of activity is such as to make this advisable. Classes where this requirement is in effect are so designated in the schedule of classes.

Late Registration

The last day to enter a class is the fifth day of instruction of each quarter, except upon approval of the instructor. Late registrants are required to make up course work missed.

Admission After Disqualification

A student disqualified from Columbia or any other college may petition for admission one year after disqualification.

A student unable to maintain a "C" average may be permanently disqualified.

Petitions must be submitted to the Dean of Student Services no later than four weeks prior to the quarter for which admission is being requested.



Admission of International Students

In the belief that students from abroad make significant contributions to the college community while preparing for leadership roles in their home countries, Columbia Junior College accepts a limited number of international students each year.

The College may restrict the number of international students from a foreign country so that many nations of the world may be represented on the Columbia campus.

Students must complete the following requirements before a Notice of Acceptance will be authorized:

- (1) Submit official transcripts, translated into English, of all high school and college work attempted.
- (2) Take LADO or TOEFL test if from a non-English speaking country. Results of the test are to be forwarded to Columbia Junior College.
- (3) Have a physician complete a Report of Medical History and Health Evaluation. The report shall be in English and returned to the College.
- (4) Purchase a comprehensive accident and health insurance policy. This policy may be obtained through the Admissions and Records Office.
- (5) Furnish evidence of satisfactory financial support. This may be accomplished by a guarantee of a sponsor residing in the College area.

These requirements must be completed by August 1.

A College Counselor serves as advisor to international students.

Admission of High School Students

High school students in their junior or senior year, upon written authorization of their principal and approval of the College may take community college courses during the academic year. High school students desiring to take summer school courses must have completed their junior year.

This opportunity is designed to introduce high school students to a college environment when, in the judgment of their principal and the College, the student can profit from the experience.

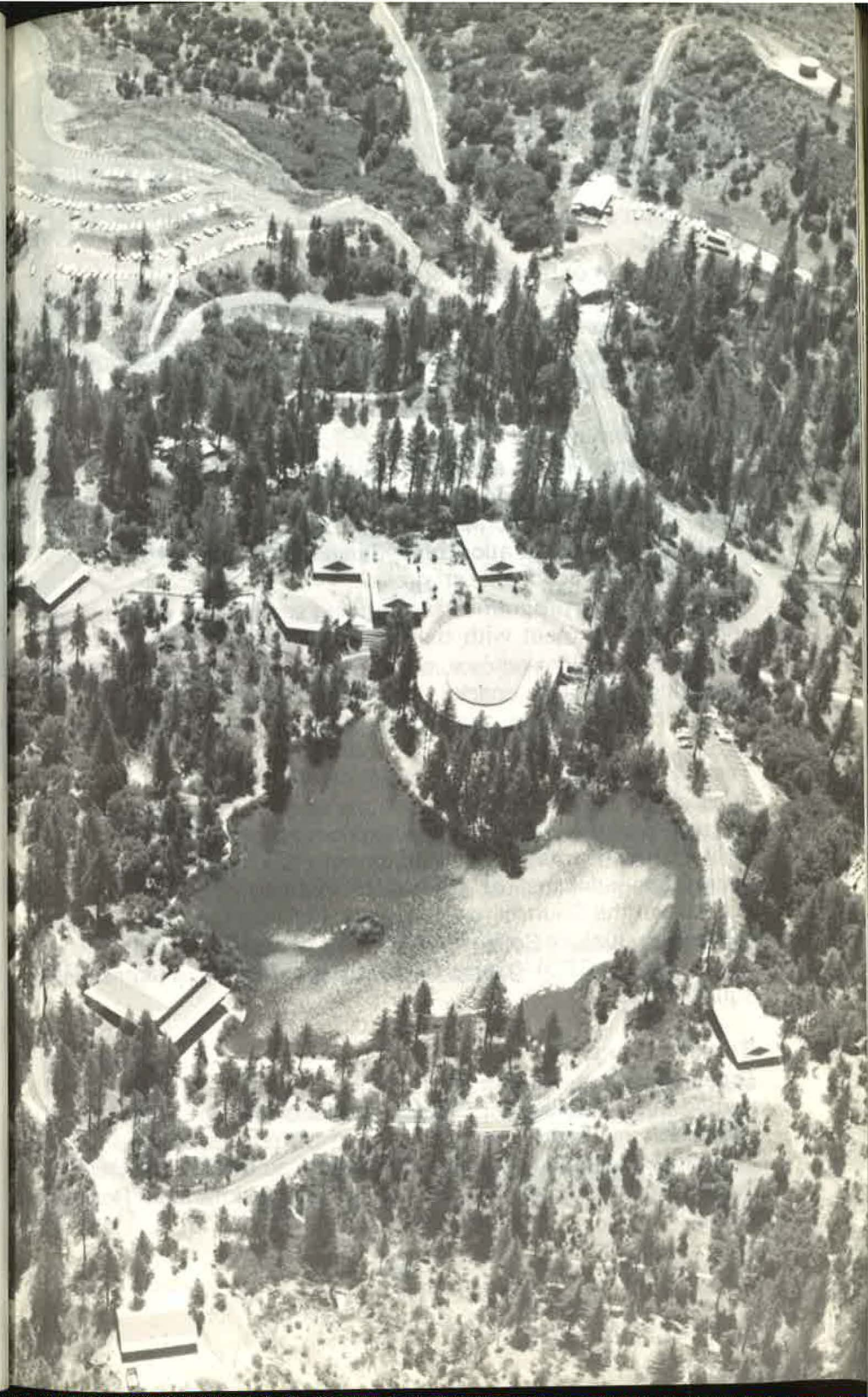
Units earned will apply toward the requirements of a college degree if not used for high school graduation.



A Guiding Principle . . .

The College shall be characterized by its flexibility in meeting student needs. Every facet of the institution shall expect and promote this quality.

STUDENT SERVICES



STUDENT SERVICES

Student Orientation

An orientation program is presented for incoming students. Information concerning the College's responsibility to the student, the student's responsibility to the College, and student services is discussed.

Orientation programs are informational sessions designed to acquaint students with academic procedures and campus activities, to introduce College staff members, to plan student-faculty meetings, and to outline areas in which students may participate in the College community.

Faculty Advisement Program

Each student will be assigned a faculty advisor to:

- (1) discuss educational objectives.
- (2) plan a study program.
- (3) assist in registration procedures.
- (4) evaluate academic progress.

The advisement program is an on-going service and students are encouraged to meet with their advisors frequently.

Scheduled student-advisor conferences are held prior to the beginning of each quarter to allow continuing students an opportunity to plan a program of study for the next quarter.

Testing Services

The College offers testing services to students requiring evaluation of their academic potential, occupational interests, or general ability. Students may be referred for individual or group testing by instructors, advisors, or counselors. Testing services also are available at the Counseling Office upon individual student request. Columbia Junior College serves as a General Educational Development (GED) Testing Center to provide tests of high school equivalency.

Student Insurance

Broad coverage student health and accident insurance is not carried by the College or District. Students who desire individual protection may make arrangements in the Business Office. A list of programs and activities that require approved health and accident insurance may be obtained from the Admissions and Records Office.

Transcripts

Upon written request to the Admissions and Records Office, two transcripts will be issued without charge for each student in good standing. Additional transcripts are \$1 each. No transcripts will be issued for students who have outstanding financial obligations to the College.

Student Identification Cards

Student Identification Cards will be issued at the time of registration. Student Identification Cards are required for checking out library books and audio visual equipment and materials.

Student Employment

Employers are encouraged to report job openings with the Placement Office where listings of student employment opportunities are maintained.

Financial Aids

Students who need financial assistance to defray college expenses may be eligible for funds under the College Work Program, National Direct Student Loans, Educational Opportunity Grants or Basic Educational Opportunity Grants. These funds are administered by the College Financial Aids Office.

Applications for the above funds are required to determine financial need. Besides the College application, the student may submit either the College Scholarship Service form or the American College Testing (ACT) form. These are available in the Financial Aids Office.

Applications for applying for Federally Insured Student Loans may also be obtained in the Financial Aids Office.

Scholarships

To assist students with their college expenses, grants of money are handled through the Columbia Junior College Scholarship Fund and the Counseling office. Service clubs, community organizations and individuals are encouraged to provide this financial aid and may specify the criteria for their scholarships. Students are encouraged to apply for consideration for scholarships.

Health Services

A variety of health services are available to all day students registered at the College. As part of the enrollment application, students are asked to complete an emergency health card. Students having chronic health problems, however, are advised to inform the College Nurse immediately so that the best possible help may be rendered in case of an emergency. Illness or accidents should be reported immediately to the College Nurse or any administrator. A fee is charged for health services payable at the time of registration.

Transportation

Bus transportation is provided to students along routes in Tuolumne and Calaveras Counties.

Veterans Affairs

Students who are eligible to apply for Federal and State educational benefits for veterans should contact the Financial Aids Office at the time of registration each quarter for regular certification.

Those veterans who are eligible and wish to apply for advance payment should contact the above office at least 6-8 weeks prior to the beginning of the term.

Student Activities

College life fosters an attitude and a pattern for social and college-community involvement. Student activities are offered to widen horizons of students and develop an awareness of social and public responsibility. The framework of social events, publications, clubs, intramural activities, community projects, musical programs, dramas, campus improvement, and cultural events is developed through student-faculty interaction.

A program must meet the needs of students to be meaningful. Students interested in planning and developing an activity are encouraged to discuss their ideas with any faculty member or person involved in student activities. Faculty members may serve as advisors to foster and help the student body in the inauguration of activities. Students are urged to become actively involved in the introduction and organization of activities.



A Guiding Principle . . .

There shall be change with a purpose. Toward this end the College shall seek innovation, support creativity and imagination, while conformity for its own sake will be ignored. It shall consider technological and methodological advances which appear to have promise.

ACADEMIC PROCEDURES



ACADEMIC PROCEDURES

Unit of Credit

A "unit of credit" is earned on the basis of one hour of lecture-recitation per week or three hours of laboratory per week during a quarter. In some physical education courses and some art courses, a unit of credit is earned for each two hours of class time. It is common to find courses composed of learning activities resulting in combinations of lecture-recitation, independent and tutorial study, or directed and individual laboratory tutorial study, or directed and individual laboratory experiences. In all cases these are to be equated with the unit of credit.

The following terms are synonymous in expressing a unit of credit: quarter unit, quarter hour, class hour, credit and credit hour.

Conversion of Units

To convert quarter and semester units of credit, the following methods of computation are used:

- (1) Quarter units of credit are converted to semester units of credit by multiplying the number of quarter units by two-thirds.
- (2) Semester units of credit are converted to quarter units of credit by multiplying the number of semester units by one and one-half.

Prerequisites

Course prerequisites are intended to ensure that the student will have sufficient preparation before entering a course and to assure a reasonable chance for his success. Knowledge of course prerequisites is the student's responsibility.

Where no prerequisite is stated as part of the course description, none is required.

Prerequisites may be waived with the Dean of Instruction's permission when in the instructor's judgement the student has adequate preparation to satisfy the course objectives. An instructor has the prerogative to refuse admission to class or officially drop a student from class who has not satisfied the course prerequisites as published in the College catalog.

Grading System

Evaluation of student achievement is made in relation to the attainment of specific course objectives. At the beginning of a course the instructor will explain the course objectives and the basis upon which grades will be determined.

Once a course is made a part of the student's program of attendance, his achievement in the course will be recorded on his permanent transcript of record by one of the following symbols:

- A — Excellent
- B — Good
- C — Average
- D — Passing
- F — Failure
- W — Withdrawal at any time for not meeting course objectives.
- I — Incomplete
- CR — Credit
- NC — No Credit
- N — No Grade (Did not meet course objectives: recommended re-enroll in course)
- O — Ungraded Class

Auditing a Course

California Community Colleges do not permit auditing.

Grading Scale

Columbia Junior College uses the following system of grade points in appraising the student's level of achievement:

- A — 4 grade points per unit
- B — 3 grade points per unit
- C — 2 grade points per unit
- D — 1 grade point per unit
- F — 0 grade points per unit
- W — Not included in computing grade point average.
- I — Not included in computing grade point average.
- CR — Not included in computing grade point average.
- NC — Not included in computing grade point average.
- N — Not included in computing grade point average.
- O — Not included in computing grade point average.

Grade Point Average

The Grade Point Average—GPA—is determined by the following formula:

$$\text{GPA} = \frac{\text{Total grade points earned}}{\text{Total quarter units attempted}}$$

For example, a student who earns 5 units of "A", 4 units of "B", 3 units of "C", 2 units of "D", and 2 units of "F" would compute his GPA as follows:

$$\begin{array}{r} 5 \text{ units A} \times 4 = 20 \text{ grade points} \\ 4 \text{ units B} \times 3 = 12 \text{ grade points} \\ 3 \text{ units C} \times 2 = 6 \text{ grade points} \\ 2 \text{ units D} \times 1 = 2 \text{ grade points} \\ 2 \text{ units F} \times 0 = 0 \text{ grade points} \\ \hline 16 \text{ units} \qquad \qquad 40 \text{ grade points} \end{array}$$

$$\text{GPA} = \frac{40 \text{ grade points}}{16 \text{ units attempted}}$$

The result in this example is a GPA of 2.50.

Units for which a grade of "W", "N", "CR", or "NC" has been assigned are not counted in computing the Grade Point Average.

Repetition of Courses

Courses may be repeated only to improve a grade of D, F, N, CR, or NC except as otherwise noted.

When repeating a course in which a "D" or "CR" grade was earned the new grade and grade points will be recorded, but no additional units for the course will be allowed. When repeating a course in which "F", "N", or "NC" grades were earned, the new grade, grade points, and units for the course will be recorded.

Courses completed with a grade of "C" or better may not be repeated for the purpose of raising the grade.

Incomplete Grades

An incomplete grade ("I") may be given for an approved reason if a student does not complete all course requirements.

Responsibility for removal of incomplete grades within the time granted by the instructor rests with the student.

Forgiveness of "F" Grades

For graduation purposes, "F" grades recorded on the transcript for the first 45 quarter units of college work attempted will not be included in computing the Grade Point Average. An "F" grade earned after the quarter in which 45 quarter units of college work are completed will be computed in the grade point average.

99./199. Independent Study Courses

Independent Study courses are intended to give students an opportunity to independently research specialized areas not available as regular course offerings of the College or to complete courses not offered during the current quarter.

Independent Study courses do not appear in the catalog as such since these courses are designed to meet specific student interests. Independent study courses may be made available in any subject matter area. Consult your advisor for specific procedures.

CONDITIONS

To be admitted to Independent Study, a student shall:

- (1) have completed one quarter (12 units) in residence and have a Grade Point Average of 2.5 either cumulative or for the previous quarter as a full-time student.
- (2) have written approval of the instructor directing the student's Independent Study, and written verification by the Admissions and Records Office that the maximum credit limitation for Independent Study will not be exceeded. Maximum unit value for any Independent Study course for any one quarter will be 3 units of credit.

LIMITATIONS

The following limitations apply to Independent Study courses:

- (1) Registration is restricted to one Independent Study course per quarter and registration must be completed prior to the fourth week of the quarter.
- (2) An overall maximum of 7 units of credit completed will be allowed for Independent Study.

Students who intend to transfer are advised that Independent Study credit may not fulfill either major or General Education Breadth Requirements. Independent Study credit earned by students not transferring may be evaluated in partial fulfillment of major requirements.

Credit/No Credit

A CR/NC grade may be arranged with the instructor at any time during the quarter prior to the final class meeting for the course. With the exception of all P.E. 120 and 130 series courses, intramural courses, and Work Experience courses, a maximum of 21 "CR" units may be counted toward graduation requirements.

Credit for a course in which "CR" was earned may be converted to a letter grade by repeating the course or challenging the course by examination. CR/NC units are not computed in determining a student's GPA.

Credit by Examination

A student may challenge a course by examination and obtain credit. Grades and grade points are entered on the student's transcript of record in the same manner as for regular courses of instruction. The intent of this provision is to:

- (1) enable students to pursue courses of study at an accelerated rate and to encourage independent study, and
- (2) recognize training or experience for which credit or advanced standing was not previously granted.

CONDITIONS

Only Columbia Junior College courses may be challenged by examination. A maximum of 30 units may be earned by Credit by Examination.

Credit granted by examination at accredited colleges will be accepted; such credit will be included in the maximum allowed by examination.

In order to challenge a course for credit, a student must:

- (1) be registered in Columbia Junior College and enrolled in the course which is being challenged.
- (2) have completed at least 15 quarter units of work in residence.
- (3) have a cumulative Grade Point Average of 2.0 ("C" average).

A student who fails to meet condition (2) or (3) above but feels it should be waived in his case may request a waiver from the instructor of the course and the Dean of Students.

PROCEDURE

The student must make arrangements for credit by examination with the individual instructor, who, on approval, will outline the challenge requirements and schedule the examination.

Certificate Programs

Columbia Junior College offers certificate programs in the following vocational areas:

- Drafting
- Fire Science
- Forestry Technology
- Heavy Equipment
- Hospitality Management
- Natural Resources Technology
- Office Occupations
- Real Estate
- Supervision
- Teacher Aide
- Vocational Nursing

Information pertaining to the actual courses needed to complete the certificates may be obtained from the instructors in the above areas or in the Admissions and Records Office.

PREVIOUSLY EARNED CREDITS

College Credit

Previously earned lower division college or university units will be accepted if the institution was accredited by a recognized accrediting association when the student was in attendance. A maximum of 15 quarter units will be allowed for courses taken by correspondence from accredited institutions.

Credit for Military Service

Armed forces personnel or veterans with a minimum of one year of service and an honorable discharge will receive:

Military Service

Three quarter units.

Military Service Schools

Credit for military service schools in accordance with credit recommendations published by the American Council on Education.

United States Armed Forces Institute (USAFI)

Credit for certain USAFI lower division college-level courses. Provisions for granting credit to armed forces personnel and veterans are subject to the following conditions:

At least 15 quarter units of work must be completed at Columbia Junior College before a student may receive credit.

Credit will not be granted for military service or military service schools where comparable units have been earned in courses previously taken.

The maximum credit allowable is 30 ungraded quarter units. Credit granted to armed forces personnel and veterans by another institution is subject to re-evaluation by Columbia Junior College.

Student Load

A student who desires to carry more than 17 units must secure approval from his advisor.

Students on academic probation will be limited to a unit load recommended by their advisor.

Classification of Students

While the minimum full-time program that will qualify a student for graduation in two years is 15 units per quarter, the following classifications have been established:

Full-time—registered for 12 or more units.

Freshman—fewer than 45 units completed.

Sophomore—45 or more units completed.

Adding a Course

Adding a course or adding units to a course in which a student is already enrolled is permitted during the first five days of instruction each quarter. After the fifth day of instruction courses or units may not be added without consent of the instructor.

Dropping a Course

A student may drop a course or reduce the number of units in a course during the first three weeks of instruction. The course or units will be removed from his program of attendance without a grade being recorded.

A grade of "W" will be recorded when the student withdraws from a course or the college at any time prior to the scheduled final examination for the course.

Attendance

Attendance is the student's responsibility. There are no provisions for "cuts".

An instructor has the prerogative to lower a student's grade or drop

a student from class because of excessive absence. Absence from the first class meeting may cancel registration in the course.

Final Examinations

Final examinations are held at the end of each quarter. Students are responsible for taking final examinations at the time scheduled unless prior arrangements are made with the instructor. Final grades are considered permanent and may be changed by the instructor only in case of error.

Scholastic Honors

Graduating students who have earned a cumulative Grade Point Average of 3.5 or better in all college work are awarded the Associate in Arts degree With Distinction.

Students whose cumulative Grade Point Average is between 3.3 and 3.5 are awarded the Associate in Arts degree With Honors. Each quarter a list of student names is published to recognize scholarship in at least 12 units of work. Students whose grade point average is between 3.0 and 3.74 are acknowledged on the Dean's list.

Students whose grade point average is between 3.75 and 4.0 are recognized as Scholars of Distinction by the President.

Scholarship Reports

Grade reports are made after the end of each quarter. If the student wishes to obtain a current progress report, he should initiate such a request in the Admissions and Records Office.

Satisfactory Scholarship

A student whose cumulative Grade Point Average is 2.0 ("C" average) is scholastically in "good standing."

All units and grade points are counted on a cumulative basis. The method of computing the Grade Point Average is illustrated on page 33.

A student with a Grade Point Average less than 2.0 is doing unsatisfactory work, will be placed on academic probation, and is subject to disqualification.

Academic Probation

The purpose of academic probation at Columbia Junior College is to ensure that students who are deficient in scholastic achievement will receive special advisement.

A student whose cumulative Grade Point Average falls below 2.0 at the end of any quarter will be placed on academic probation.

Status While on Probation

Probationary students will be limited to a unit load recommended by their advisor.

Students who have attempted 45 quarter units of three quarters as a full-time student and whose percentage of "W"s is 30% or more will be placed on probation.

Students on probation are subject to disqualification at any time their academic work shows neglect of studies.

Removal From Probationary Status

Clear status will be granted to a student on probation when his cumulative Grade Point Average is 2.0 or better.

Disqualification

A student on academic probation may be disqualified under either of the following conditions:

- (1) Completion of a second quarter on probation with a cumulative Grade Point Average below 1.75.
- (2) Completion of a third quarter on probation with a cumulative Grade Point Average below 2.0.

A student who earns a Grade Point Average of less than 1.0 in any quarter may be disqualified without a period of probation.

A disqualified student may not be reinstated under the admissions provisions until one year from the date of disqualification.

If the Grade Point Average of a student readmitted after disqualification falls below 2.0 for a quarter's work, the student may be permanently disqualified.

In the event a student is disqualified, he may petition for readmission on the basis of the following circumstances that might warrant an exception:

- (a) Evidence of consistent improvement in the student's record during the quarters under consideration.
- (b) A change from one major to a field of study more appropriate to the student.
- (c) Circumstances in the personal life of the student which the advisor of the student believes may have been of sufficient gravity to affect adversely the performance of the student.
- (d) The recommendation of the student's physician that the continuance in college would be of sufficient therapeutic

benefit to the student to warrant the granting of an additional opportunity.

If a student has been disqualified and feels he has extenuating circumstances worthy of consideration, he may request the Dean of Student Services to waive the one year period of disqualification.

Conduct

A Code of Student Conduct was adopted by the Yosemite Junior College District Board of Trustees January 6, 1970, based on the following philosophical concept:

The students and faculty at Columbia form a closely knit educational community which is engaged in the process of learning through involvement. Regulations are needed but the broader concept of personal honor is based on integrity, common sense, and respect for civil and moral law.

The College expects its students to conduct themselves as responsible citizens both on and off the campus. Recognizing the students' responsibilities as individuals, it is the policy of the College not to discipline students for acts occurring away from the campus and not connected with College-sponsored activities.

Leave of Absence

An emergency leave of absence not to exceed two weeks may be granted. Petitions for leave of absence are available in the Admissions and Records Office.

Students are responsible to make arrangements with their instructors to complete all course work missed.

Absences of less than one week need not be reported to the College.

Withdrawal From College

It is the student's responsibility to officially withdraw from the college and notify the Admissions and Records Office so that a grade of "W" may be recorded on the permanent record.

Residence Requirement for Graduation

To be eligible to receive the Associate in Arts degree from Columbia Junior College, a student must:

- (1) complete at least 15 quarter units of work at a campus of the Yosemite Junior College District, and
- (2) be registered in Columbia Junior College during the quarter in which graduation requirements for Columbia Junior College are completed.

Materials and Breakage Costs

In some classes materials and breakage costs must of necessity be borne by the students. Generally, these costs are assessed in those kinds of classes where the materials used become the property of students at the termination of the class. Refer to schedule of classes.





A Guiding Principle . . .

This College shall focus on student success. This will be accomplished by preserving an environment where each individual will have maximum freedom of choice. It will afford each student an opportunity to profit from education to the fullest extent of his capabilities.

GRADUATION



GRADUATION REQUIREMENTS

Columbia Junior College will confer the Associate in Arts degree upon completion of the following requirements:

TOTAL UNIT: Satisfactory completion of 90 quarter units selected from courses listed in the catalog provided that 15 hours of the required units were secured in residence at a campus in the Yosemite Junior College District and registration in Columbia Junior College during the quarter in which graduation requirements for Columbia Junior College are completed.

SCHOLARSHIP: A cumulative Grade Point Average of 2.0 ("C" average).

MAJOR: Satisfactory completion of 30 quarter units of study taken in a discipline or in related disciplines.

More than one Associate in Arts Degree may be granted to a student who completed the applicable requirements as well as an additional 15 quarter units in residence.

GENERAL EDUCATION: Satisfactory completion of 23 quarter units of General Education selected from the four categories listed below. A minimum of 3 quarter units must be taken in each category and not more than 9 units in any one category may be counted toward meeting the General Education Requirements. With the exception of General Education Majors, any course listed below which is taken to meet the major requirement may also be used to meet the General Education Requirement within the appropriate category. General Education Majors may not use the same course for both the major and the General Education requirement.

A. HUMANITIES

Art 101, 110a, 110b, 110c, 155, 163a
Drama 102, 122, 130, 133a, 133b, 136, 145, 155, 163a, 170, 171, 172
English 101b, 110, 111, 117a, 117b, 117c, 133a, 133b, 136, 146a, 146b, 146c, 149
Humanities 110, 120, 130
Music 102, 110a, 110b, 110c, 112
*Philosophy 101, 102, 103, 105, 108, 110a, 110b
Photography 101a, 101b
Speech 102, 122, 140

B. SOCIAL SCIENCES

Anthropology 101a, 101b, 101c, 104, 110, 115
Business 101, 103a, 103b, 104, 107, 110
Economics 15, 101a, 101b, 105, 107
Health Education 101
History 104a, 104b, 104c, 111, 113, 117a, 117b, 121a, 121b, 133, 149
*Philosophy 101, 102, 103, 105, 108, 110a, 110b
Political Science 101, 105, 110, 115, 125

Psychology 101a, 101b, 103, 105, 130, 142a, 142b, 143, 144, 145, 160
Sociology 101, 102, 110, 111, 112, 115, 119

C. NATURAL SCIENCES

Biology 10, 49, 100, 110, 111, 115, 120, 121, 125, 130, 131, 140, 151, 155
Chemistry 100, 101a, 101b, 101c
Earth Science 49, 100a, 100b, 110a, 110b, 120, 122
Forestry 101, 110
Forestry Technology 12
Health Occupations 110, 112, 114, 116

Natural Resources 100, 101, 102, 105
Natural Resources Technology 11, 12, 30
Physics 108

D. LEARNING SKILLS

Business 51, 105
English 51a, 51b, 101a
Guidance 101
Mathematics 30, 30.1, 30.2, 30.3, 32, 33, 51, 101, 102, 103, 105, 110, 120a, 120b, 120c, 120d, 120e, 130
Office Occupations 20
*Philosophy 110a, 110b
Skills Development 21, 60, 70, 80, 87, 88, 90, 92, 95, 98
Speech 101, 115

*These Philosophy courses may be counted toward meeting the General Education Requirements under Humanities, Social Science, or Learning Skills, but only one area per course.

NOTICE OF INTENT TO GRADUATE: A Notice of Intent to Graduate must be filed in the Admissions and Records Office no later than the second week of the quarter in which the student plans to complete his requirements for graduation.

Graduation requirements may be completed during any quarter. Degrees are conferred at graduation exercises at the close of the Spring Quarter.

LOWER DIVISION REQUIREMENTS CALIFORNIA FOUR-YEAR COLLEGES AND UNIVERSITIES

Students should consult the latest catalog of the institution to which they intend to transfer to ensure that all required lower division courses are included in their Columbia program of study. Advisors will help students select courses that fulfill both major and General Education Breadth Requirements. The responsibility for fulfilling requirements rests with the student.

ASSOCIATE IN ARTS DEGREE FOR STATE UNIVERSITY AND COLLEGE TRANSFER

The California State University and College system has established the following campuses:

California State College, Bakersfield

California State University, Chico

California State College, Dominguez Hills

California State University, Fresno

California State University, Fullerton

California State University, Hayward

California State University, Humboldt

California State University, Long Beach

California State University, Los Angeles

California State University, Northridge

California State Polytechnic University, Pomona

California State University, Sacramento

California State College, San Bernardino

California State University, San Diego

California State University, San Francisco

California State University, San Jose

California State Polytechnic University, San Luis Obispo

California State College, Sonoma

California State College, Stanislaus

Students may complete their lower division preparation for transfer to one of the state universities or colleges without loss of credit or grades.

Students should make their choice of transfer institution early and consult the catalog of the transfer college. Each state university and college has its own academic emphasis and program requirements.

A student who is eligible for direct admission to a state university or college from high school may transfer after he has completed 90 quarter units with a cumulative Grade Point Average of 2.0 ("C" average) or better.

Students should consider the following if they plan to transfer to a state university or college:

- (1) General Education Breadth Requirements: State universities and colleges require a minimum of 60 quarter units of general education for a Bachelor's degree.
- (2) Department Requirements: Students should refer to the transfer university or college catalog to identify any special lower division major requirements.
- (3) Minor Requirements: In many programs a minor is required. Students should consult the transfer university or college catalog to include lower division courses which may be required for upper division work in a minor.

To earn the Associate in Arts degree and enter a state university or college with junior standing, a student should complete at least 90 quarter units with a cumulative Grade Point Average of 2.0 ("C" average) or better. A maximum of 105 quarter units of junior college credit will be accepted by a state university or college. Units in excess of 105 may be applied toward fulfillment of requirements in General Education Breadth Requirements, the major, or the minor.

CALIFORNIA STATE UNIVERSITIES AND COLLEGES GENERAL EDUCATION BREADTH REQUIREMENTS

Columbia Junior College has adopted a pattern of General Education Breadth Requirements accepted by the state universities and colleges.

Completion of the pattern satisfies 60 quarter units of General Education at any state university or college. If a state university or college requires more than 60 quarter units, the student may take the additional units after transfer.

Columbia Junior College will certify completion of the pattern of General Education Breadth Requirements in total or in part for students transferring to state universities and colleges.

COLUMBIA JUNIOR COLLEGE PATTERN

NATURAL SCIENCES

A. Biological Science (one course).

Biology 100. Biology, Man, and Contemporary Society (4).

**Biology 110. Fundamentals of Biology (4).*

**Biology 111. Principles of Biology (5).*

Biology 115. Heredity and Evolution (4).

**Biology 120. Fundamentals of Plant Biology (3).*

**Biology 121. Principles of Plant Biology (5).*

**Biology 125. Plant Taxonomy of the Sierra Nevada (4).*

**Biology 130. Fundamentals of Animal Biology (3).*

**Biology 131. Principles of Animal Biology (5).*

**Biology 140. Introductory Human Anatomy (4).*

**Biology 151. The Terrestrial Environment (4).*

**Biology 155. The Aquatic Environment (3).*

B. Physical Science (one course).

**Chemistry 100. Fundamentals of Chemistry (4).*

**Chemistry 101a, 101b, 101c. General Chemistry (5) (5) (5)*

**Earth Science 100a, 100b. Survey of Earth Science (3) (3).*

- *Earth Science 110a. *Physical Geology* (4).
- *Earth Science 110b. *Historical Geology* (4).
- Earth Science 120. *General Astronomy* (3).
- (When taken with Earth Science 121, *Astronomical Viewing* (1), counts as a laboratory science).
- Earth Science 122, *Space Science* (3).
- *One laboratory science selected from area A or B.

SOCIAL SCIENCES

- A. *American History and Institutions* (any sequence).
 1. History 104c. *World Civilization and Political Science* 101. *Constitutional Government* (4) (1).
 2. History 117a, 117b, *United States* (5) (5).
 3. History 117a or 117b. *United States and Political Science* 101. *Constitutional Government* (5) (1).
- B. *Psychology* (one course).
 - Psychology 101a, 101b, *Introduction to Psychology* (5) (5).
 - Psychology 103. *Social Psychology* (5).
 - Psychology 105, *Physiological Psychology* (5).
 - Psychology 130. *Personal and Social Adjustment* (5).
 - Psychology 142a, 142b. *Psychology of Leadership* (5) (5).
- C. *Additional Social Sciences* (one course).
 - Anthropology 101a, 101b, 101c. *Introduction to Anthropology* (5) (5) (5).
 - Anthropology 115. *Indians of North America* (5).
 - Economics 101a, 101b. *Principles of Economics* (5) (5).
 - Economics 105. *Topics in Economics* (3).
 - Economics 107. *Consumer Economics* (3).
 - History 104a, 104b, 104c. *World Civilization* (4) (4) (4).
 - History 111. *Asia* (4).
 - History 113. *China* (4).
 - History 121a, 121b. *California* (3) (3).
 - History 149. *The Mother Lode* (3).
 - Political Science 105. *Introduction to Political Science* (4).
 - Political Science 110. *American Political Thought* (4).
 - Political Science 115. *International Relations* (4).
 - Political Science 125. *Comparative Political Systems* (4).
 - Sociology 101. *Man and Society* (5).
 - Sociology 102. *American Social Patterns*. (5).
 - Sociology 110. *Deviance and Conflict* (5).
 - Sociology 111. *Crime and Delinquency* (4).
 - Sociology 112. *Family, Marriage and the Individual* (4).
 - Sociology 115. *Ethnic and Minority Groups* (4).
 - Sociology 119. *Women in Society* (4).

HUMANITIES

- A. *Literature and Philosophy* (one course).
 - Art 155. *Survey of Technical Theatre* (5).
 - Art 163a. *Puppetry* (4).
 - Drama 133a, 133b. *Dramatic Literature* (4) (4).
 - Drama 136. *Playwriting* (5).
 - Drama 155. *Survey of Technical Theatre* (5).
 - Drama 163a. *Puppetry* (4).
 - English 110. *Creative Writing* (5).
 - English 111. *Film Appreciation* (4).
 - English 117a, 117b, 117c. *Literature of the United States* (4) (4) (4).
 - English 133a, 133b. *Dramatic Literature* (4) (4).
 - English 136. *Playwriting* (5).
 - English 146a, 146b, 146c. *Survey of English Literature* (4) (4) (4).
 - English 149. *California Literature* (5).
 - Humanities 110. *Current Religious Movements* (3).
 - Humanities 120. *America's Religious Heritage* (3).
 - Humanities 130. *World Religious Consciousness* (3).
 - Philosophy 101. *Knowledge and Reality* (4).
 - Philosophy 102. *Ethics and Religion* (4).
 - Philosophy 103. *Values in Politics and Esthetics* (4).
 - Philosophy 105. *Perspectives in Philosophy* (4).
 - Philosophy 108. *Humanistic and Scientific Thought* (4).
 - Philosophy 110a, 110b. *Logic* (4) (4).
- B. *Fine Arts* (one course).
 - Art 101. *Art Appreciation* (3).
 - Art 110a. *History of Art: Ancient and Medieval* (3).
 - Art 110b. *History of Art: Renaissance and Baroque* (3).
 - Art 110c. *History of Art: 19th and 20th Century* (3).
 - Drama 102. *Oral Expression and Interpretation* (5).
 - Drama 130. *Drama Appreciation* (3).
 - Music 102. *Introduction to Listening* (4).
 - Music 110a, 110b, 110c. *Survey of Music History and Literature* (4) (4) (4).
 - Music 112. *History of American Jazz* (4).
 - Photography 101a. *Beginning Photography* (3).
 - Photography 101b. *Intermediate Photography* (3).
 - Speech 102. *Oral Expression and Interpretation* (5).

BASIC SUBJECTS

- A. *Communications* (all courses).
 - English 101a, 101b, *Reading and Composition* (5) (5).
 - Speech 101. *Fundamentals of Speech* (5).

ADDITIONAL REQUIREMENTS

A. *Electives: additional units to complete the 60 units of General Education Breadth Requirements may be selected from courses listed in the above categories or any of the following:*

1. *Math (Math 101 or above)*
2. *Foreign Language (other than Spanish 100abc)*
3. *Health Education 101*
4. *Physical Education*

TOTAL GENERAL EDUCATION BREADTH REQUIREMENTS 60 units.

ASSOCIATE IN ARTS DEGREE FOR UNIVERSITY OF CALIFORNIA TRANSFER

The University of California has established campuses at Berkeley, Davis, Irvine, Los Angeles, Riverside, San Diego, San Francisco, Santa Barbara, and Santa Cruz.

To earn the Associate in Arts degree and enter the University of California with junior standing, a student should complete at least 90 quarter units with a cumulative Grade Point Average of 2.0 ("C") or better.

The University will not grant credit toward graduation for work completed in excess of 105 lower division quarter units.

A student eligible for direct admission to the University from high school may transfer at the end of any quarter with a cumulative Grade Point Average of 2.0 ("C") or better.

A student not eligible for direct admission to the University from high school may become eligible and transfer upon completion of all deficiencies. If the deficiency occurred because of a failure to complete required high school subjects, the student may be admitted when he has:

- (1) established a cumulative Grade Point Average of 2.0 ("C") or better.
- (2) satisfied subject requirements with a grade of "C" or better. There is an exception to this requirement. Up to two units of credit in the required high school subjects will be excused if a student has earned a Grade Point Average of 2.4 or better in 84 quarter units (56 semester units) of college credit in courses accepted by the University for transfer. Any deficiency over two units in the required high school subjects must be made up by completing appropriate college courses with a grade of "C" or better.

The University of California has stated breadth requirements in terms of courses completed, not units. Because there may be individual variations between the several University campuses, students planning to transfer to a campus of the University of California should obtain a catalog from that campus and, in consultation with his advisor, determine the proper courses needed to fulfill breadth requirements. The Admissions and Records Office maintains a collection of University catalogs for student reference.

ASSOCIATE IN ARTS DEGREE FOR TRANSFER TO PRIVATE COLLEGES AND UNIVERSITIES

Students planning to transfer to private colleges and universities should consult the catalog of the college to which they plan to transfer for specific lower division required courses which may be completed at Columbia Junior College. The student should consult with his advisor for guidance.

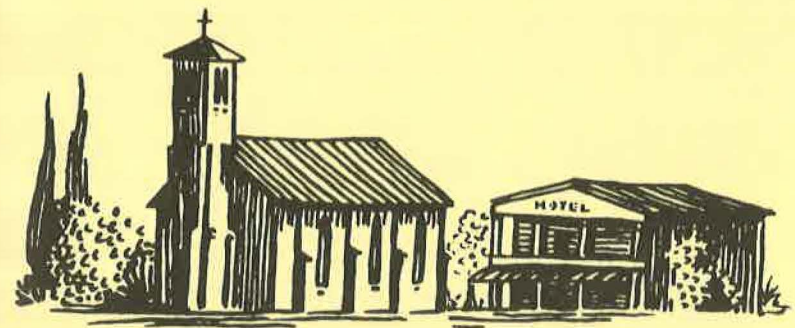




A Guiding Principle . . .

This College shall combine the strengths of the various disciplines, so that each will contribute to and support the bases used by students to reach their goals. No single instructional area or individual will be self-sustaining, but only as a component of the student's recommended educational progress.

COURSE DESCRIPTIONS



COURSE INFORMATION

Numbering of Courses

Courses numbered 1 to 99 are not intended for transfer, but may be accepted for transfer credit by agreement with specific four-year colleges and universities.

Courses numbered 100 and above are designated baccalaureate level courses.

Students must understand that some courses designated as baccalaureate level may not meet requirements at the transferring institution; however, they may be used for elective credit.

Course Description

A course description is given for each graded course offered by the College. Students are urged to refer to the course description for information concerning course prerequisites and allocation of class hours for lecture, laboratory, field trips, or other required learning activities.

Courses Not Listed In The Catalog

1. Credit Free Courses

In an effort to meet some of the special interest needs of the populations served by the College, Credit Free Courses are usually offered each quarter. These courses are traditionally offered either through Community Education or Community Services sponsorship. Credit Free Courses cannot be applied toward fulfilling graduation, transfer, or vocational education programs, but such courses do provide information and/or training on a variety of topical subjects.

2. 180 Courses: Special Topics

Lecture 1-6 hours for 1-6 units of credit.

Prerequisites: None, unless the Area faculty establishes one for the topic selected. This will be so designated on the quarterly Schedule of Classes.

Seminars in which a particular topic in a discipline (such as History) is treated with indepth study. The topic, the number of units and hours, and prerequisites (if any), will be determined in advance and published in the quarterly Schedule of Classes. 180 Courses may be repeated for credit with different topics only.

3. 185 Courses: Interdisciplinary Studies—Special Topics

Lecture 1-6 hours for 1-6 units of credit.

Prerequisites: None, unless the Area faculty establishes one for the topic selected. This will be so designated on the quarterly Schedule of Classes.

Seminars in which a particular topic in an Area (such as Social Sciences) is treated with indepth study. The topic, the number of units and hours, and

prerequisites (if any), will be determined in advance and published in the quarterly Schedule of Classes. 185 Courses may be repeated for credit with different topics only.

4. 199 Courses: Independent Study

Independent study courses are intended to give students an opportunity to independently research specialized areas not available as regular course offerings of the college or to complete courses not offered during the current quarter. They are designed to meet specific student interests and may be made available in any subject matter area. Consult your advisor for specific procedures. (See page 31 for conditions, limitations.)

Prerequisites

Prerequisites are intended to ensure that the student will have sufficient preparation before entering a course.

Where no prerequisite is stated for a course, none is required. A prerequisite may be waived with the Dean of Instruction's permission when, in the instructor's judgement, the student has adequate preparation to satisfy the course objectives.

Credit Value

The number in parenthesis after the course title indicates the unit credit value of the course. Courses listed in this catalog are described in quarter units. One and one-half quarter units equal one semester unit.

Field Trips

Field trips may be required in a number of courses where such a statement is not currently a part of the course description.



ANTHROPOLOGY

- 101abc. Introduction to Anthropology (5) (5) (5)**
(a) *Physical*
Lecture 5 hours.
Man and his evolutionary history with emphasis on recent developments; primatology; the fossil sequence beginning with pre-man through the Paleolithic era to his domestication of plants and animals and the dawn of civilization. Race. Man's cultural adaptations resulting from his biological and genetic background.
- (b) *Cultural*
Lecture 5 hours.
Primitive man and the concept of culture basic to anthropology. Emphasis on methods of fieldwork, cultural ecology, language, social structure, the psychological perspective, religion, medicine, and cultural change.
- (c) *Current Problems*
Prerequisite. Anthropology 101a or 101b.
Lecture 5 hours.
Intra-specific aggression, territoriality, population control, primate social organization, intra- and inter-species communication, and the present and future trends in social organization, war, religion, and cultural change.
May be repeated one time for credit.
- 104. Introduction to Anthropological Linguistics (5)**
Lecture 5 hours.
The nature and scope of anthropological linguistics. Animal communication systems. Human language acquisition. Descriptive linguistics, non-verbal communication, paralanguage, transformations, historical linguistics, comparative linguistics, sociolinguistics, and language and culture.
- 110. Introduction to Archaeology (3)**
Prerequisite. Anthropology 101a or 101b.
Lecture 2 hours
Laboratory 3 hours.
Development of archaeology as an anthropological study; objectives and methods of modern archaeology; a review of archaeological projects in North and South America. Archaeological methods, techniques and site survey methods under field conditions. Basic laboratory and museum techniques. Preparation of an archaeological site report.
Field trips may be required.

- 115. Indians of North America (5)**

Lecture 5 hours.

A survey of the origins, cultures, and customs of peoples indigenous to the North American continent with a primary emphasis upon folkways dominant prior to interference by foreign cultures, and a secondary emphasis upon the status of the Indians in the USA today.

APPRENTICE CARPENTRY

The Apprentice Carpentry Program is conducted in accordance with State Apprenticeship laws. The program is open to men between 17 and 26 years of age with the equivalent of a high school education. Prospective apprentices must make application for union membership no later than the eighth day of employment. The apprentice serves for a four-year period, the first three months of which are probationary. Apprentice training consists of full-time employment supplemented by related classroom instruction. The apprentice will be required to meet 4 hours by arrangement each month in addition to classroom schedules. Students whose work or attendance is not satisfactory may be dropped from the program by recommendation of the Joint Apprenticeship Committee. The College grants credit for the successful completion of the program.

The Associate in Arts degree may be earned, in addition to the completion of the apprenticeship training program, by fulfilling the Graduation Requirements listed on pages 44 and 45.

Non-apprentices who wish to enroll in the class for purposes of their own general education may do so with permission of the Associate Dean, Occupational Education.

- 101abc. Apprentice Carpentry (3) (3) (3)**

- (a) *Prerequisite. Apprenticeship standing.*
Lecture 3 hours.
- (b) *Prerequisite. Apprentice Carpentry 101a or Consent of Instructor.*
Lecture 3 hours.
- (c) *Prerequisite. Apprentice Carpentry 101b or Consent of Instructor.*
Lecture 3 hours.

Blueprint reading, estimating, mathematics, form construction, light frame construction, hand and portable power tools, safety and Uniform Building Code.

- 102abc. Apprentice Carpentry (3) (3) (3)**

- (a) *Prerequisite. Apprentice Carpentry 101abc.*
Lecture 3 hours.
- (b) *Prerequisite. Apprentice Carpentry 102a.*
Lecture 3 hours.
- (c) *Prerequisite. Apprentice Carpentry 102b.*
Lecture 3 hours.

Simplified framing, framing tables, sheathing, and insulation.

- 103abc. Apprentice Carpentry** (3) (3) (3)
 (a) *Prerequisite. Apprentice Carpentry 102abc.*
Lecture 3 hours.
 (b) *Prerequisite. Apprentice Carpentry 103a.*
Lecture 3 hours.
 (c) *Prerequisite. Apprentice Carpentry 103b.*
Lecture 3 hours.
 Interior and exterior trim, stair layout, blueprint reading, and advanced framing techniques.

- 104abc. Apprentice Carpentry** (3) (3) (3)
 (a) *Prerequisite. Apprentice Carpentry 103abc.*
Lecture 3 hours.
 (b) *Prerequisite. Apprentice Carpentry 104a.*
Lecture 3 hours.
 (c) *Prerequisite. Apprentice Carpentry 104b.*
Lecture 3 hours.
 Heavy timber construction, reinforced concrete form work; blueprint reading, and estimating.

ART

All studio art classes earn one unit of credit for two hours of class time.

- 101. Art Appreciation** (3)
Lecture 2 hours.
Laboratory 3 hours.
 Introduction to historical and present-day art emphasizing principles and purposes of various forms of art.

- 102abcd. Drawing** (3) (3) (3) (3)
 (a) *Basic*
Studio 6 hours.
 Introduction to perspective, composition, rendering techniques and media.
 (b) *Figure*
Studio 6 hours.
 Continuation of Art 102a with emphasis on problems of proportion; foreshortening, rendering, and composition.
 (c) *Anatomy*
Studio 6 hours.
 Study of human anatomy and its application to problems in figure drawing.
 (d) *Life Drawing*
Studio 6 hours.
 Problems in figure drawing, working from the undraped model.
May be repeated for credit.

- 103abc. Introduction to Art** (3) (3) (3)
 (a) *Basic*
Studio 6 hours.
 Theory and practice in visual arts emphasizing visual design, principles and systems of visual organization, and a basic survey of past and present examples of art.
 (b) *Color and Composition*
Studio 6 hours.
 Painting processes, elements, principles, systems of visual organization, survey of painting; emphasis on color theory.
 (c) *Structure and Composition*
Studio 6 hours.
 Three-dimensional organization including sculpture, assemblage, kinetic sculpture, and architectural design; emphasis on contemporary art and design.

- 106abc. Watercolor** (3) (3) (3)
 (a) *Introductory*
Studio 6 hours.
 Introduction to the basic techniques and problems of transparent watercolors.
 (b) *Advanced*
Studio 6 hours.
 Continuation of Art 106a introducing opaque watercolors and various experimental techniques.
 (c) *Special Problems*
Studio 6 hours.
 Continuation of Art 106ab with emphasis on further experimentation and development of personal expression.
May be repeated for credit.

- 108abc. Ceramics** (3) (3) (3)
 (a) *Introductory*
Studio 6 hours.
 Introduction to basic ceramic methods including hand building and wheel thrown forms.
 (b) *Advanced*
Studio 6 hours.
 Continuation of Art 108a with emphasis on glaze formulation.
 (c) *Special Problems*
Studio 6 hours.
 Continuation of Art 108a and 108b with emphasis on personal expression and experimentation.
May be repeated for credit.

110abc. History of Art (3) (3) (3)

- (a) *Ancient and Medieval*
Lecture 3 hours.
Survey of art history from the Paleolithic Age through the Late Gothic Era.
Field trips may be required.
- (b) *Renaissance and Baroque*
Lecture 3 hours.
Survey of art history from 15th through the 18th centuries.
Field trips may be required.
- (c) *19th and 20th Century*
Lecture 3 hours.
The background, causes, and evolution of contemporary art.

112abc. Oil Painting (3) (3) (3)

- (a) *Introductory*
Studio 6 hours.
Basic principles, techniques, and problems of oil painting.
- (b) *Advanced*
Studio 6 hours.
Continuation of Art 112a emphasizing advanced oil painting techniques and problems.
- (c) *Special Problems*
Studio 6 hours.
Study and application of 19th and 20th Century painting techniques to contemporary studio practice.
May be repeated for credit.

114abcd. Sculpture (3) (3) (3) (3)

- (a) *Introductory*
Studio 6 hours.
Basic principles, techniques, and problems of sculpture.
- (b) *Advanced*
Studio 6 hours.
Continuation of Art 114a emphasizing advanced problems and techniques in sculpture.
- (c) *Special Problems*
Studio 6 hours.
Continuation of 114a and 114b with emphasis on experimentation and development of personal expression.
May be repeated for credit.
- (d) *Metal*
Studio 6 hours.
Introduction to various metalworking techniques with an emphasis on aesthetic design.
May be repeated for credit.

118a. Acrylic Painting: Introductory (3)

Studio 6 hours.
Introduction to a painting process using acrylic as a medium.
May be repeated for credit.

155. Survey of Technical Theatre (See also Drama 155) (5)

Lecture 3 hours.
Laboratory 6 hours.
An overview of the basic techniques, materials, and concepts of design and construction related to physical theatre production. Survey of costume to make-up, stagecraft and properties, stage lighting and sound. (Credit for this course will be granted in either Art 155 or Drama 155 but not both. May be repeated for a maximum of 15 units of credit.)

160ab. Printmaking (3) (3)

- (a) *Relief*
Studio 6 hours.
Introduction to basic relief printmaking procedures emphasizing linoleum and woodcut.
May be repeated for credit.
- (b) *Intaglio*
Studio 6 hours.
Introduction to basic intaglio printmaking procedures including etching, engraving, and collograph.
May be repeated for credit.

163ab. Puppetry (See also Drama 163ab) (4) (4)

- (a) *Lecture 3 hours.*
Laboratory 3 hours.
The design and construction of puppets and puppet theatres; techniques in manipulation and puppet play production; the survey and adaptation of appropriate literature to the puppet stage; performance experience in creative puppetry.
- (b) *Prerequisite: Art 163a or Consent of Instructor.*
Lecture 3 hours.
Laboratory 3 hours.
Rehearsal and performance of puppet theatre productions; advanced techniques in design, construction, manipulation, direction and performance of puppet theatre survey and adaptation of literature appropriate to the puppet stage. (Credit for this course will be awarded for either Art 163a and Art 163b or Drama 163a and Drama 163b but not both. May not be repeated.)

AVIATION

- 105. Private Pilot Ground School (3)**
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for private pilot certificate. Instruction includes: aircraft operations, air traffic, pilot privileges and limitations, flight planning, map reading, radio communications, weather and safety.
- 110ab. Commercial Pilot Ground School (3) (3)**
(a) Prerequisite. Aviation 105.
Lecture 3 hours.
Flight information, civil air regulations, radio and navigational aids.
(b) Prerequisite. Aviation 110a.
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for commercial pilot certificate.
- 115ab. Instrument Rating Ground School (3) (3)**
(a) Prerequisite. Aviation 105.
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for instrument rating certificate.
(b) Prerequisite. Aviation 115a.
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for instrument rating certificate.
- 130abc. Airports and Operation (3) (3) (3)**
Lecture 3 hours.
An overview of the major functions of an airport from a management point of view.
- 150. Light Aircraft Engines (3)**
Lecture 3 hours.
The operation and the principles of maintenance of light aircraft engines common to privately owned aircraft.

BIOLOGY

- 10. Natural History and Ecology (3)**
Lecture 2 hours.
Laboratory 3 hours.
Natural history of California flora and fauna with emphasis on ecological principles and relationships.
Field trips may be required.

- 49. Wild Flowers of the Mother Lode (3)**
Lecture 3 hours.
Wild flowers of the Mother Lode with emphasis on their botanical beauty. A non-technical approach to botanical traits will be used to learn common and scientific names of wild flowers.
- 100. Biology, Man and Contemporary Society (4)**
Lecture 4 hours.
A study of the biological concepts of ecology, genetics, and behavior as they relate to modern society.
- 110. Fundamentals of Biology (4)**
Lecture 3 hours.
Laboratory 3 hours.
Modern concepts, inquiry methods, and historical background of biological unity and processes.
- 111. Principles of Biology (5)**
Prerequisite: Previous or Concurrent Enrollment in Chemistry 100 Recommended.
Lecture 3 hours.
Laboratory 6 hours.
Modern biological concepts with investigation of such subjects as the cell biology, biological systems, heredity, ecology, and metabolism.
- 115. Heredity and Evolution (4)**
Prerequisite. Biology 110 or Biology 111.
Lecture 4 hours.
Introductory genetic principles; inheritance, population variation and evolution in plants and animals. Social implications of genetics and evolution.
- 120. Fundamentals of Plant Biology (3)**
Lecture 2 hours.
Laboratory 3 hours.
Structure, functions, and diversity of the plant organism.
- 121. Principles of Plant Biology (5)**
Prerequisite. Biology 110 or 111.
Lecture 3 hours.
Laboratory 6 hours.
Emphasis placed on structure, functions, and diversity of the plant organism.

- 125. Plant Taxonomy of the Sierra Nevada (4)**
Lecture 3 hours.
Laboratory 3 hours.
 A study of the flora of the Sierra Nevada with emphasis on the classification of angiosperms.
- 130. Fundamentals of Animal Biology (3)**
Lecture 2 hours.
Laboratory 3 hours.
 Structure, functions, and diversity of the animal organism.
- 131. Principles of Animal Biology (5)**
Prerequisite. Biology 110 or 111.
Lecture 3 hours.
Laboratory 6 hours.
 Emphasis placed on structure, functions, and diversity of the animal organism.
- 140. Introductory Human Anatomy (4)**
Prerequisite. Biology 110 or Consent of Instructor.
Lecture 2 hours.
Laboratory 6 hours.
 A study of the gross anatomy of the human body with emphasis on skeletal, muscular, and nervous systems. Individual systems studied for their form, function, and interrelationships with other systems. The cat is used for laboratory dissection.
- 151. The Terrestrial Environment (4)**
Prerequisite. Consent of Instructor and any one of the following: Biology 110, Biology 111, Biology 121, Biology 125.
Lecture 2 hours.
Laboratory 6 hours.
- (1) Regular Quarters: Field studies of terrestrial ecosystems with emphasis on techniques for gathering and analysis of physical biological data.
Field trips are required.
- (2) Summer Session Only: Summer field course which studies terrestrial ecosystems from the Red Fir belt to Alpine zone in Tuolumne County. Flora, fauna, and physical parameters in each ecosystem studied. A photographic, written, or oral presentation of materials studied and a backpack trip of nine days are required. (Students must provide own camping gear and food.) May be repeated upon consent of instructor but transfer credit may be earned in either but not both courses.

- 155. The Aquatic Environment (3)**
Prerequisite. Consent of the Instructor and Biology 110 or 111 or Earth Science 110a.
Lecture 1 hour.
Laboratory 6 hours.
 Field studies of aquatic ecosystems with emphasis on techniques for gathering and analysis of physical and biological data.
Field trips are required.

BUSINESS

Banking and Finance

- 110. Principles of Bank Operation (4)**
Lecture 4 hours.
 The importance of banking to American economic functions, banking operations, legal relationships between bank and depositors, the Federal Reserve System, banking and public service.
- 113. Financing Business Enterprise (4)**
Lecture 4 hours.
 A survey of financial institutions; problems and solutions of providing capital for American business.
- 120. Installment Credit (4)**
Lecture 4 hours.
 Principles and practice of installment lending, establishing credit, obtaining and checking information, loan servicing and collections, inventory financing, special loan programs, business development and advertising and public relations.
- 125. Money and Banking (See also Economics 125) (4)**
Lecture 4 hours.
 An introduction to and evaluation of banks and banking systems, price movements, international payments, and monetary theory and policies. (Credit for this course will be awarded for either Banking and Finance 125 or Economics 125 but not both. May not be repeated.)

Business Administration

- 10. Principles of Advertising (3)**
Lecture 3 hours.
Advertising principles and functions; products and services, consumers' media, the advertisement, career opportunities.
- 20ab. Bookkeeping (5) (5)**
(a) Lecture 5 hours.
Double entry bookkeeping; general and special journals, general and subsidiary ledgers, business forms, financial statements, and completion of the bookkeeping cycle.
(b) Prerequisite. Business Administration 20a. Lecture 5 hours.
Bookkeeping entries requiring analysis and interpretation; promissory notes, adjustments for prepaid, unearned, and accrued items, depreciation, voucher system, payroll records, property sales, and income taxes.
- 51. Business Mathematics (See also Math 51.) (4)**
Lecture 4 hours.
Mathematical problems of buying, selling, interest, discounts, insurance, commissions, payrolls, depreciation, and taxes.
(Credit for this course will be awarded for either Mathematics 51 or Business Administration 51 but not both. May not be repeated.)
- 55. Report Writing (See also English 55) (3)**
Lecture 3 hours.
Study and practice of the skills necessary to write intelligent reports.
(Credit for this course will be awarded for either English 55 or Business Administration 55 but not both. May not be repeated.)
- 101. Principles of Business (3)**
Lecture 3 hours.
Business and its functions. Business organization; governmental institutions and controls; economics in business.
- 102abc. Accounting (3) (3) (3)**
(a) Lecture 3 hours.
Accounting principles and procedures, owner's equity, closing books, revenue and expense adjustments, merchandising operations, statement and ledger organization.

102abc. (continued)

- (b) Prerequisite. Accounting 102a. Lecture 3 hours.*
Forms of organization, cash and investments, receivables, inventories, fixed assets, liabilities, accounting principles, and manufacturing operations.
- (c) Prerequisite. Accounting 102b. Lecture 3 hours.*
Cost data and management needs, analysis of data, supplementary statement, uses of capital cash-flow statements, department and branch operation, consolidation, profit planning, and income tax considerations.
- 103ab. Commercial Law (3) (3)**
(a) Lecture 3 hours.
Historical development of common law; statutes of California. Federal and State court decisions; legal aspects of business; law of contracts, agency, and employment.
(b) Lecture 3 hours.
Law of sales, negotiable instruments, personal property, real property, partnerships, corporations, insurance, suretyship.
- 104. Principles of Marketing (5)**
Lecture 5 hours.
Marketing principles, policies, and functions, price policies and controls, trade channels, merchandising, market research, advertising, and competitive practices.
- 105. Fundamentals of Data Processing (4)**
Lecture 4 hours.
History and future data processing, card processing, computer data processing, and computer programming.
- 107. Consumer Economics (See Also Economics 107) (3)**
Lecture 3 hours.
Focus is on values and attitudes which result in "conspicuous consumption" habits. In addition to value analysis, emphasis will be placed on family financial planning, buying, borrowing, investing, and investment protection.
(Credit for this course will be awarded for either Economics 107 or Business Administration 107 but not both. May not be repeated.)

- 110. Human Relations in Business (3)**
Lecture 3 hours.
Influence of industrial development on employer and employee unions, management practices, methods of supervision, employer-employee relationships, mass production and the employee.
- Office Occupations**
- 1. Personal Typing (3)**
Lecture 2 hours.
Laboratory 3 hours.
Instruction for personal use, including learning keyboard by the touch system, composing at the machine, practical application of typing skills to simple letter writing, manuscripts, and tabulation.
- 2. Review Typing (3)**
Lecture 2 hours.
Laboratory 3 hours.
Development of speed and accuracy; review of simple correspondence, tabulation, manuscripts, and composition at the typewriter.
- 5. Typing Speed and Accuracy Building (1-2)**
Prerequisite. Beginning typing skill.
Laboratory 3 to 6 hours.
Speed building and accuracy on straight copy, rough draft, script, and statistical writing. Intensified drills, timed writings and remedial work. May be repeated for a maximum of 4 units.
- 11. Review Stenography (4)**
Prerequisite. Typing rate 30 words per minute.
Lecture 3 hours.
Laboratory 3 hours.
Review of Gregg dictation theory; transcription skills.
- 20. Business Correspondence (3)**
Lecture 3 hours.
The learning and review of effective business practices in the construction of sentences, paragraphs, and letters; the writing of effective business letters such as sales, applications, orders, requests, adjustments, refusals, credit and collection.
- 101. Beginning Typing (4)**
Lecture 3 hours.
Laboratory 3 hours.
Drills to develop speed and accuracy; development of typing skills for vocational or personal use; practice on typing straight copy; centering; manuscript typing; tabulation; letter placement.

- 103. Intermediate Typing (4)**
Prerequisite. Office Occupations 101 or typing of 30 words per minute.
Lecture 3 hours.
Laboratory 3 hours.
Development of speed and accuracy; advanced correspondence; tabulation; typing of manuscripts, outlines, and business forms.
- 104. Advanced Typing (4)**
Prerequisite. Office Occupations 103 or typing rate of 45 words per minute.
Lecture 3 hours.
Laboratory 3 hours.
Further development of speed and accuracy; study of business forms, complicated tabulated material, legal forms, typing for reproduction, and special problems in letter placement.
- 110ab. Beginning Stenography (4) (4)**
Prerequisite. Typing rate of 30 words per minute.
Lecture 3 hours.
Laboratory 3 hours.
Complete theory of Gregg shorthand; foundation for dictation and transcription.
- 112ab. Intermediate Stenography (4) (4)**
Prerequisite. Dictation rate at 60 words per minute for 3 minutes and typing rate of 45 words per minute.
Lecture 3 hours.
Laboratory 3 hours.
Sustained dictation speed on new material; accuracy on transcription; spelling, punctuation, and office-style dictation.
- 113ab. Advanced Stenography (4) (4)**
Prerequisite. Dictation rate at 80 words per minute for 3 minutes and typing rate of 45 words per minute.
Lecture 3 hours.
Laboratory 3 hours.
Development of speed and accuracy; correlation of grammar, spelling, punctuation, and typing.
- 130abc. Office Practice (3) (3) (3)**
(a) Prerequisite. Typing skill.
Lecture 2 hours.
Laboratory 3 hours.
Filing rules and systems; use of office equipment and supplies.

130abc. (continued)

- (b) *Prerequisite. Typing skill.*
Lecture 2 hours.
Laboratory 3 hours.
Machine transcription; use of mimeograph, ditto, and copy machines.
- (c) *Prerequisite. Typing skill.*
Lecture 2 hours.
Laboratory 3 hours.
Adding machines; rotary and printing calculators.

131. Office Occupations (1-5)

Prerequisite. Consent of Instructor.
Laboratory 3 hours a week for each unit of credit.
Supervised office work experience.
May be repeated for a maximum of 12 units of credit.

Real Estate

101. Principles of Real Estate (3)

Lecture 3 hours.
Real and personal property acquisition, ownership, estates, joint tenancies, partnerships, sales, contracts, deeds, taxes, and financing real estate.

105. Real Estate Practice (4)

Prerequisite. Real Estate 101 or Real Estate License.
Lecture 4 hours.
Customer relationship, general real estate operations, the industry, types of listings, valuation of listings, selling and current marketing techniques, the deposit receipt, advertising, financing, escrow procedures, real estate taxes, income tax and real estate, property management, leasing, appraisals, insurance, mathematics, business opportunities, public sales, exchanges, trade-in programs and investments.

110. Legal Aspects of Real Estate (4)

Prerequisite. Real Estate 101.
Lecture 4 hours.
California real estate law; titles, encumbrances, recording, real property acquisition and transfer; Penal Code.

115. Real Estate Finance (4)

Prerequisite. Real Estate 101.
Lecture 4 hours.
Residential and commercial financing; lending institutions, money markets, and interest rates.

120. Real Estate Appraisal (4)

Prerequisite. Real Estate 105 and 110.
Lecture 4 hours.
Appraisal of residential and commercial properties; methods and techniques for determining market value; the appraisal report.

125. Real Estate Economics (4)

Prerequisite. Real Estate 101.
Lecture 4 hours.
Economic factors influencing real estate; real estate market and business cycles; commercial, industrial, and residential properties; urban development and renewal; regulation of land uses.

Supervisory Training

110. Elements of Supervision (3)

Lecture 3 hours.
Supervisor's role in business and industry; organizational policies, management directives, personnel problems and practices; leadership techniques.

115. Middle Management (3)

Prerequisite. Supervisory Training 110.
Lecture 3 hours.
The basis for management; planning, organizing, staffing and controlling management functions.

CHEMISTRY

100. Fundamentals of Chemistry (4)

Prerequisite. Mathematics 32 or one year of high school algebra.
Lecture 3 hours.
Laboratory 3 hours.
Fundamental theories and principles of inorganic chemistry: atomic and molecular structure, chemical and physical changes, solutions, colloids, gases, nonmetals, metals, and nuclear chemistry.

101abc. General Chemistry (5) (5) (5)

- (a) *Prerequisite. One year of high school chemistry with a "B" average and Math 101 or equivalent; or Chemistry 100 and Math 101; or Consent of Instructor.*
Lecture 3 hours.
Laboratory 6 hours.
Survey of atoms, molecules, ions, chemical bonding, gases and organic compounds.

101 abc. (continued)

- (b) *Prerequisite. Chemistry 101a or equivalent with Consent of Instructor.*
Lecture 3 hours.
Laboratory 6 hours.
Survey of liquids, solids, solutions, kinetics, equilibria and thermodynamics.
- (c) *Prerequisite. Chemistry 101b or equivalent.*
Lecture 3 hours.
Laboratory 6 hours.
Survey of acids, bases, complex ions, oxidation-reduction and nuclear chemistry.

CONSTRUCTION Construction Technology

- 101. Introduction to Carpentry (3)**
Lecture 3 hours.
Theory and framing non-commercial buildings for private use. Construction of small non-structural projects. Local code ordinances governing such construction.
- 111. Introduction to Residential Wiring (3)**
Lecture 3 hours.
Electrical theory, blueprint reading, service, circuits, conduit, and flexible wiring in residential construction. Remodeling and large appliance installation procedures. Applicable local code ordinances.
- 121. Introduction to Residential Plumbing (3)**
Lecture 3 hours.
Types of pipes and common fittings. Cold and hot water supply. Soil pipe and drainage systems. Fixture mounting. Natural gas plumbing. Applicable local code ordinances.

CRIME PREVENTION Criminal Justice

Courses in Correctional Science and Law Enforcement are offered through the Regional Criminal Justice Training Center, Modesto, in cooperation with Columbia Junior College.

The Regional Criminal Justice Training Center, located on the West Campus of Modesto Junior College, serves in-service criminal justice education training and resource needs of eight counties including Alpine, Amador, Calaveras, Tuolumne, San Joaquin, Stanislaus, Merced and Mariposa.

The Training Center provides its services through an on-site program as well as four outreach training sites located at the Amador County District Attorney's Office, Calaveras Sheriff's Department, Mariposa County Sheriff's Department and Tuolumne County District Attorney's Office. Programs and services also are offered through the cooperative efforts of the community colleges located in these counties.

Students enrolled in Corrections or Law Enforcement courses will be enrolled by the Training Center and will receive credit through Modesto Junior College. General education requirements for the Associate of Arts Degree in Corrections or Law Enforcement may be completed at Columbia Junior College in its regular course of study.

Bulletins and announcements of forthcoming courses and programs will be circulated by both the Training Center and Columbia Junior College through the office of the Associate Dean of Instruction, Occupational Education.

Administration of Justice

- 1. Introduction to Administration of Justice (3)**
Lecture 3 hours.
History and survey of current law enforcement fields. Emphasis on employment potential.

Law Enforcement

- 8. Aquatic Law Enforcement (4)**
Lecture 3 hours.
Laboratory 3 hours.
Law enforcement regulations and procedures; water safety; boat operation.

DRAFTING

- 105. Beginning Drafting (3)**
Lecture 2 hours.
Laboratory 3 hours.
For those with no drafting knowledge. History, language, lettering, freehand sketching, instruments, and construction.

110abc. Basic Drafting**(3) (3) (3)**

- (a) *Prerequisite. Drafting 105.*
Lecture 2 hours.
Laboratory 3 hours.
The use of tools and materials, knowledge of lettering; geometry; freehand sketching, orthographic projection, sectioning and basic dimensioning.
- (b) *Prerequisite. Drafting 110a.*
Lecture 2 hours.
Laboratory 3 hours.
Orthographic projecting, auxiliary views, dimensioning, tolerancing, threads, fasteners, and springs.
- (c) *Prerequisite. Drafting 110b.*
Lecture 2 hours.
Laboratory 3 hours.
Complete drawings (tracings and prints), applied design, shop process and fabrication.

115abc. Advanced Drafting**(3) (3) (2)**

- (a) *Prerequisite. Drafting 110abc.*
Lecture 2 hours.
Laboratory 3 hours.
Review of basic drafting, lettering devices, and special templates. Intersections and developments in sheet metal, welding representations, and design of cams and gears.
- (b) *Prerequisite. Drafting 115a.*
Lecture 2 hours.
Laboratory 3 hours.
Map drafting, electrical and electronic, aerospace, and technical illustration.
- (c) *Prerequisite. Drafting 115b.*
Laboratory 6 hours.
Independent study in a concentrated area of drafting. Student's choice must involve current industrial practices.

123. Blueprint Reading**(2)**

- Lecture 2 hours.
Residential and commercial print reading, printing processes applied to drafting and trade competency testing.

130abc. Architectural Drafting**(3) (3) (3)**

- (a) *Prerequisite. Drafting 110abc.*
Lecture 3 hours.
Area planning, basic plans, locations, sections, foundations, framing, schedules and specifications.
- (b) *Prerequisite. Drafting 130a.*
Lecture 3 hours.
Technical architectural plans, creative architectural drafting and design.
- (c) *Prerequisite. Drafting 130b.*
Lecture 3 hours.
Codes, related plans, modulars, design, theory, checking, and costs.

DRAMA**102. Oral Expression & Interpretation (See also Speech 102) (5)**

- Lecture 5 hours.
Techniques in reading literature aloud; understanding and interpreting prose, poetry, and dramatic selections; oral presentation, and expression of thought.
(Credit for this course will be awarded for either Drama 102 or Speech 102 but not both. May not be repeated.)

122. Introduction to Readers' Theatre (See also Speech 122) (4)

- Lecture 3 hours.
Laboratory 3 hours.
Theory and practice of Readers' Theatre as an art form. Directed experiences in selecting, cutting, arranging, and performing the Readers' Theatre script. Field trips will be required.
(Credit for this course will be awarded for either Drama 122 or Speech 122 but not both. May not be repeated.)

130. Drama Appreciation (3)

- Lecture 3 hours.
A survey of selected dramatic literature, theatre methods, and relevant historical backgrounds.

133ab. Dramatic Literature (See also English 133ab) (4) (4)

- (a) *Greek to Renaissance*
Lecture 4 hours.
An investigation into the history and development of the theatre, its significant figures and selected plays from the Greeks through Renaissance, 500 B.C. - 1550 A.D.

- (b) *Shakespeare to 19th Century*
Lecture 4 hours.

A study indepth of the historical and literary development of the theatre from Shakespeare through the 19th Century with focus upon selected plays, significant theatrical figures, the physical theatre and the social and philosophical contexts.

(*Credit will be awarded for either Drama 133a or English 133a and Drama 133b or English 133b but not both. May not be repeated.*)

136. Playwriting (See also English 136) (5)

Lecture 5 hours.

Theory and practice of writing for the theatre; analysis of relevant literature and productions; investigation of dramatic methods appropriate to the playwright.

(*May be repeated.*)

140. Circus and Clown (See also P.E. 140) (2)

Lecture 1 hour.

Laboratory 3 hours.

An indepth study of the classic clown with specific concentration on a circus performing format as well as the development of comic stunts, clown shows, and comic acrobatic exhibitions with emphasis on conditioning, locomotor skills, and gymnastics.

(*Credit for this course will be awarded for either Drama 140 or Physical Education 140 but not both. May not be repeated.*)

143abc. Acting (5) (5) (5)

- (a) *Fundamentals*

Lecture 5 hours.

Investigation of techniques and theories prerequisite to theatrical performances; psychological, philosophical, and practical preparation for the actor's art.

- (b) *Scene Study*

Prerequisite. Drama 143a and/or Consent of Instructor.

Lecture 4 hours.

Laboratory 3 hours.

Character analysis and actor's interpretation in the preparation of dramatic scenes for performance.

- (c) *Advanced Projects*

Prerequisite. Drama 143a and 143b and/or Consent of Instructor.

Lecture 3 hours.

Laboratory 6 hours.

Advanced workshop activity for production of one-act plays, segments of longer plays or full length plays whose technical require-

ments are minimal; intensive workshop concentration designed for public performance in the areas of improvisation of mime.

(*May be repeated one time for credit.*)

144. Mime (4)

Lecture 3 hours.

Laboratory 3 hours.

Techniques of mime, pantomime, silent acting, and "the clown", concentration on classical mime illusions, elements of mime conditioning, movement, coordination, juggling exercises, and their incorporation into theatrical presentations.

145. Improvisation (4)

Lecture 3 hours.

Laboratory 3 hours.

Intensive study of the basic techniques of improvisational acting with specific concentration on improvisational theatre production formats as well as development of group inspired and created scenarios and one-act plays.

155. Survey of Technical Theatre (See also Art 155) (5)

Lecture 3 hours.

Laboratory 6 hours.

An overview of the basic techniques, materials, and concepts of design and construction related to physical theatre production. Survey of costume to make-up, stagecraft and properties, stage lighting and sound.

(*Credit for this course will be granted in either Drama 155 or Art 155. May be repeated for a maximum of 15 units of Credit.*)

157. Theatre Touring Company (5)

Prerequisite. Audition and Consent of Instructor.

Lecture 2 hours.

Laboratory 9 hours.

A production company offering a variety of theatrical expressions ranging from a full length play to improvisations, mime and puppetry for touring performances to schools and community organizations in the Mother Lode area.

(*May be repeated for a maximum of 15 units of credit.*)

158. Performing Arts Workshop (5)

Lecture 1 hour.

Laboratory 12 hours.

Directed activities in acting and technical theatre with participation in public performances and related production activities.

(*May be repeated for a maximum of 15 units of credit.*)

- 160. Children's Theatre-Creative Dramatics (5)**
Lecture 5 hours.
 An investigation into the literature and techniques of children's theatre, including appropriate plays, theatre games, pantomime, improvisation, story-telling, play production, children's puppetry, creative crafts, and simplified technical production skills; methods and concepts of creative dramatics in communication, problem-solving, and presentational activities for and with children; supervised practical field experiences involving local elementary school children.

163ab. Puppetry (See also Art 163ab) (4) (4)

(a) *Lecture 3 hours.*

Laboratory 3 hours.

The design and construction of puppets and puppet theatres; techniques in manipulation and puppet play production; the survey and adaptation of appropriate literature for the puppet stage; rehearsal and performance experience in creative puppetry.

(b) *Prerequisite. Drama 163a and/or Consent of Instructor.*

Lecture 3 hours.

Laboratory 3 hours.

Rehearsal and performance of puppet theatre productions; advanced techniques in design, construction, manipulation, direction and performance of puppet theatre; survey and adaptation of literature appropriate to the puppet stage.

(Credit for this course will be granted in either Drama 163ab or Art 163ab. May not be repeated.)

Summer Drama Workshop

170. Workshop Rehearsal and Production (4)

Lecture 1 hour.

Laboratory 9 hours.

Directed rehearsal and public performance at the Summer Drama Workshop with related production activities.

171. Workshop Acting Survey (4)

Lecture 1 hour.

Laboratory 9 hours.

Intensive workshop experience in acting, conducted by selected professional and academic guest lecturers and theatre artists, in mime, body movement, improvisation, stage speech, scene study, and dance.

172. Workshop Survey of Technical Theatre (4)

Lecture 2 hours.

Laboratory 6 hours.

Intensive workshop experiences in stagecraft and properties, lighting and sound, and stage costume, conducted by selected professional and academic guest lecturers and theatre artists.

178. Performing Arts Company Laboratory (1)

Laboratory 3 hours.

Practical experiences in various phases of activity associated with the management and operation of the Performing Arts Workshop; box office operation, house management, promotion and publicity, and selected aspects of production and performance preparation.

EARTH SCIENCE

49. Geology of the Mother Lode (3)

Lecture 3 hours.

A synoptic view of the geologic history of the Sierra Nevada.



- 100ab. Survey of Earth Science (3) (3)**
 (a) *Lecture 2 hours.*
Laboratory 3 hours.
 Survey of astronomy and geology; basic principles and their effect on modern society.
 (b) *Lecture 2 hours.*
Laboratory 3 hours.
 Survey of oceanography and meteorology; principles and their effect on modern society.
- 110ab. Geology (4) (4)**
 (a) *Physical*
Lecture 3 hours.
Laboratory 3 hours.
 Materials and structure of the earth, agents of erosion, forces of change, volcanoes, and earthquakes.
Field trips may be required.
 (b) *Historical*
Prerequisite. Earth Science 110a.
Lecture 3 hours.
Laboratory 3 hours.
 Origin and history of the earth with a description of the life of successive geologic periods, time and geologic time scale. Special reference to North America and the Sierra Nevada.
Fields trips may be required.
- 120. General Astronomy (3)**
Prerequisite. High school general science, physics, or chemistry.
Lecture 3 hours.
 History of astronomy, modern astronomy, tools of astronomy, the solar system and its relationship to the galaxies; properties and evolution of stars.
Field trips may be required.
- 121. Astronomical Viewing (1)**
Laboratory 3 hours.
 Viewing the night sky with the telescope.
Field trips may be required.
- 122. Space Science (3)**
Lecture 3 hours.
 History and development of space technology. Basic understanding of the problems of man in space.

ECONOMICS

- 15. Understanding the American Economy (3)**
Lecture 3 hours.
 A basic introduction to macro-economic principles with an emphasis on U.S. economic policies and institutions. Topics covered are gross national product, recession, inflation, fiscal policy, money and the Federal Reserve System, monetary policy, wage and price controls, balance of payments policies.
- 101ab. Principles of Economics (5) (5)**
 (a) *Lecture 5 hours.*
 Macro-economics. Introduction to the U.S. economy, capitalism, and socialism. National income and employment analysis, economic fluctuations, monetary and fiscal policy.
 (b) *Lecture 5 hours.*
 Micro-economics. The corporation, analysis of costs, theory of production, pricing factor inputs including wages, rent, and interest.
- 105. Topics in Economics (3)**
Prerequisite. Economics 101a or 101b.
Lecture 3 hours.
 An examination of topics of current interest to economics such as international economics and imperialism, pollution, and environmental economics, developing countries, land use, and poverty problems.
- 107. Consumer Economics (3)**
(See Also Business Administration 107)
Lecture 3 hours.
 Focus is on values and attitudes which result in "conspicuous consumption" habits. In addition to value analysis, emphasis will be placed on family financial planning, buying, borrowing, investing, and investment protection.
(Credit for this course will be awarded for either Economics 107 or Business Administration 107 but not both. May not be repeated.)
- 125. Money and Banking (4)**
(See Also Banking and Finance)
Lecture 4 hours.
 An introduction to and evaluation of banks and banking systems, price movements, international payments, and monetary theory and policies.
(Credit for this course will be awarded for either Economics 125 or Banking and Finance 125 but not both. May not be repeated.)

ENGLISH

- 51ab. College Composition (3) (3)**
 (a) *Lecture 3 hours.*
 Training in basic composition skills, reading, interpretation, and discussion of college-level materials. Basic mechanics, sentence structure, paragraph development, essay and report organization.
- (b) *Prerequisite. English 51a.*
Lecture 3 hours.
 Development of college composition skills; reading, interpretation, and discussion of college-level materials, including units of logic. Organization and development of technical reports and the term paper.
- 55. Report Writing (See also Business 55) (3)**
Lecture 3 hours.
 Study and practice of the skills necessary to write intelligent reports. Recommended for those students who are preparing to enter an occupational area, where report writing is required, but may be taken by students in non-occupational programs who wish to learn about report writing.
(Credit for this course will be awarded for either English 55 or Business Administration 55 but not both. May not be repeated.)
- 101ab. Reading and Composition (5) (5)**
 (a) *Lecture 5 hours.*
 Development of reading and composition skills with emphasis on interpreting and writing the expository essay and reading and interpretation of the short story.
- (b) *Prerequisite. English 101a*
Lecture 5 hours.
 Further development of reading and composition skills with an emphasis on reading and interpreting one novel with secondary sources, poetry, and drama, with the composition of a longer, documented paper.
- 110. Creative Writing (5)**
Prerequisite. English 101a or 51a or 51b, and/or Consent of Instructor.
Lecture 5 hours.
 Instruction and practice in writing poetry, fiction, and drama. Analysis of contemporary works with respect to literary techniques. May be repeated one time for credit.
Field trips may be required.

- 111. Film Appreciation (4)**
Lecture 4 hours.
 Development of sensitivity and critical judgment in audience response to film.
Field trips may be required.
- 117abc. Literature of the United States (4) (4) (4)**
 (a) *Prerequisite. English 51ab or English 101a.*
Lecture 4 hours.
 A study of the literature of the United States from the beginning of the English colonization to the work of Hawthorne, Poe, and Melville. Reading, analysis, and discussion of the major literary trends and authors of the time.
- (b) *Prerequisite. English 51ab or English 101a.*
Lecture 4 hours.
 A study of the literature of the United States from the Transcendentalists until the beginning of the 20th Century. Writers to be studied include Emerson, Thoreau, Whitman, Dickinson, Longfellow, Twain, Bret Harte, Steven Crane.
- (c) *Prerequisite. English 51ab or English 101a.*
Lecture 4 hours.
 A study of the literature of the United States from 1900 to the present. Focus will be upon reading poetry and fiction by authors whose works exemplify contemporary literary trends.
- 133ab. Dramatic Literature (See also Drama 133ab) (4) (4)**
 (a) *Greek to Renaissance*
Lecture 4 hours.
 An investigation into the history and development of the theatre, its significant figures and selected plays from the Greeks through Renaissance, 500 B.C. - 1550 A.D.
- (b) *Shakespeare to 19th Century*
Lecture 4 hours.
 A study indepth of the historical and literary development of the theatre from Shakespeare through the 19th century with focus upon selected plays, significant theatrical figures, the physical theatre and the social and philosophical contexts.
(Credit for this course will be awarded for either English 133a and English 133b or Drama 133a and Drama 133b but not both. May not be repeated.)
- 136. Playwriting (See also Drama 136) (5)**
Lecture 5 hours.
 Theory and practice of writing for the theatre; analysis of relevant literature and products; investigation of dramatic methods appropriate to the playwright. May be repeated.

- 146abc. Survey of English Literature (4) (4) (4)**
 (a) *Prerequisite. English 51ab or English 101a or Consent of Instructor. Lecture 4 hours.*
 English literature from the Anglo-Saxons through the 18th century.
 (b) *Prerequisite. English 51ab or English 101a or Consent of Instructor. Lecture 4 hours.*
 English literature of the 19th century.
 (c) *Prerequisite. English 51ab or English 101a or Consent of Instructor. Lecture 4 hours.*
 English literature of the 20th century.

- 149. California Literature (5)**
Prerequisite. English 51ab or English 101a or Consent of Instructor. Lecture 5 hours.
 A chronological survey of California literature in the 19th and 20th centuries with emphasis on selected works of major American authors living and writing in California.

FIRE SCIENCE

- 101. Introduction of Fire Suppression (3)**
Lecture 3 hours.
 Fire suppression organization; equipment; characteristics and behavior of fire; fire hazards; properties of combustible materials; building design and construction; extinguishing agents; basic fire fighting tactics; public education.
- 105ab. Fundamentals of Fire Prevention (3) (3)**
 (a) *Lecture 3 hours.*
 (b) *Prerequisite. Fire Science 105a or Consent of Instructor. Lecture 3 hours.*
 Fire prevention organizations; inspections; surveying and mapping; recognition of fire hazards; engineering a solution of the hazard; enforcement of solution; fire prevention and the public.
- 108ab. Fire Fighting Strategy and Tactics (3) (3)**
 (a) *Prerequisite. Fire Science 101. Lecture 3 hours.*
 (b) *Prerequisite. Fire Science 108a or Consent of Instructor. Lecture 3 hours.*
 Fire chemistry; equipment and manpower; fire fighting tactics and strategy; methods of attack; pre-planning fire problems.

- 111ab. Hazardous Materials (3) (3)**
 (a) *Prerequisite. Fire Science 101. Lecture 3 hours.*
 (b) *Prerequisite. Fire Science 111a or Consent of Instructor. Lecture 3 hours.*
 Flammable liquids, water reactive chemicals, oxidizers, acids, flammable solids, and flammable gases. Flammable metals, plastics, explosives, fuels, radiation hazards, and insecticides.

- 114. Fire Apparatus and Equipment (3)**
Prerequisite. Fire Science 101. Lecture 2 hours. Laboratory 3 hours.
 Driving laws and techniques. Construction and operation of pumping engines, tank trucks, and trailers.

- 117. Wildland Fire Control (3)**
Lecture 3 hours.
 Factors affecting wildland fire prevention, fire behavior, and control techniques.

- 120. Heavy Equipment in Fire Control (3)**
Lecture 3 hours.
 Theory of heavy equipment used by a coordinated fire control team in fighting range fires.

- 123. Fire Hydraulics (3)**
Lecture 3 hours.
 Review of basic mathematics, hydraulic laws and formulas as applied to the fire service; application of formulas and mental calculation to hydraulic problems; water supply problems; underwriters' requirements for pumps.

- 130. Fire Protection Equipment and Systems (3)**
Prerequisite. Fire Science 101. Lecture 3 hours.
 Portable fire extinguishing equipment, sprinkler systems, protection systems for special hazards, fire alarm and detection systems.

- 133. Related Codes and Ordinances (3)**
Prerequisite. Fire Science 101. Lecture 3 hours.
 National, state, and local laws and ordinances which influence the field of fire prevention.

136. Fire Company Organization and Procedures (3)

Lecture 3 hours.

Duties and responsibilities of personnel, personnel administration, communications, functions of equipment, maintenance, training, and records.

FOREIGN LANGUAGE

Spanish

100abc. Conversational (3) (3) (3)

(a) *Beginning*

Lecture 2 hours.

Laboratory 3 hours.

(b) *Intermediate*

Prerequisite. 100a and/or Consent of Instructor.

Lecture 2 hours.

Laboratory 3 hours.

(c) *Advanced*

Prerequisite 100b and/or Consent of Instructor.

Lecture 2 hours.

Laboratory 3 hours.

Practice in vocabulary, idioms, and grammatic usage with emphasis in conversational use of the language as spoken in Mexico.

May be repeated.

FORESTRY

101. Introduction to Forestry (4)

Lecture 3 hours.

Laboratory 3 hours.

History of the forest industry, survey of forest resources, forestry management and utilization techniques, career opportunities, legislation, and forest practices.

Field trips may be required.

105. Forest Surveying (5)

Prerequisite. Math 102 recommended.

Lecture 3 hours.

Laboratory 6 hours.

Utilization of basic forest surveying instruments and equipment. Techniques of collecting, recording, plotting, and drafting field data.

Field trips may be required.

110. Dendrology (4)

Prerequisite. Biology 120 or 121 recommended.

Lecture 3 hours.

Laboratory 3 hours.

Characteristics, identification, and range of native trees and shrubs of the Western United States; emphasis on plants of economic importance to forest practices in California.

Field trips may be required.

FORESTRY TECHNOLOGY

10. Introduction to Technical Forestry (4)

Lecture 3 hours.

Laboratory 3 hours.

Nature and scope of the forest technician's work; knowledge and skills for employment; employment opportunities. Survey of forest resources, history of forestry, forest utilization, and applied forest management. Role of forest technician in public and private forestry.

Field trips may be required.

11. Forest Surveying Techniques (3)

Lecture 2 hours.

Laboratory 3 hours.

Basic forest surveying instruments. Application of hand and staff compass, topographic and engineer's chain, abney and dumpy level, pocket altimeter, and engineer's transit.

Field trips may be required.

12. Tree and Plant Identification (3)

Lecture 2 hours.

Laboratory 3 hours.

Classification and identification of major western United States timber species with emphasis on local and California plant cover. Description of physical, economic, and silvicultural characteristics of these trees as related to forest management and utilization. Techniques of preparing plant specimens.

Field trips may be required.

13. Forest Inventory (5)

Prerequisite. Forestry Technology 11.

Lecture 3 hours.

Laboratory 6 hours.

Forest inventory techniques: applied timber cruising, scaling, and marketing. Field tabulation and computation techniques. Training experience in forest inventory.

Field trips may be required.

- 20. Applied Forest Management (5)**
Prerequisite. Forestry Technology 11 and 13.
Forestry Technology 12 and Natural Resources Technology 15 recommended.
Lecture 2 hours.
Laboratory 9 hours.
Locate and inventory a given forest property in the field. Develop property boundaries; inventory timber and other natural resources. Design topographic and timber type map and road system for property.

- 30. Logging Equipment (See also Heavy Equipment 30) (3)**
Lecture 2 hours.
Laboratory 3 hours.
Use of heavy equipment in the lumbering industry and land clearing. Safety training and accident prevention; fire laws and equipment. (*Credit for this course will be awarded for either Forestry Technology 30 or Heavy Equipment 30 but not both. May not be repeated.*)

GUIDANCE

- 101. Career Exploration (3)**
Lecture 3 hours.
Personal assessment using and analyzing value, interest, and aptitude measurement instruments and group discussion; exposure to industry and government vocations and resources useful in career planning. Course will be taken for CR-NC only.

HEALTH EDUCATION

- 101. Health Education (2)**
Lecture 2 hours.
Personal and community health; physical, mental, and social well being of man in a changing environment.
- 110. Safety and First Aid Education (2)**
Lecture 2 hours.
Causes and prevention of accidents. Covers Red Cross Standard First Aid with certificate available upon satisfactory completion of course.

HEALTH OCCUPATIONS

- 103. Emergency Medical Technician Training (8)**
Prerequisite. One or more of the following: Appropriate emergency medical terminology background (to be determined by the instructor); basic first aid; employment that requires the course; medical terminology classes.
Lecture 8 hours.
An intensive course to assist the student in developing skill in recognition of illness and injuries and proper procedures in administering emergency care.
- 105ab. Home Health Aide (4) (4)**
(a) Lecture 3 hours.
Laboratory 3 hours.
An orientation to local health facility procedures. Basic patient care. Introduction to personal hygiene, body systems, illness and nutrition.
- (b) Prerequisite. Health Occupations 105a.*
Lecture 3 hours.
Laboratory 3 hours.
Post hospital patient care using prescribed exercises, assisting with self administered medications, and performing household services essential to patients' care in the home.
Field trips may be required.

Vocational Nursing

The Vocational Nursing program is accredited by the California Board of Vocational Nurse and Psychiatric Technician Examiners. Students who successfully complete Vocational Nursing 110, 112, 114, and 116 are eligible to take a state examination leading to licensure as a vocational nurse. Students are selected for the program on the basis of their scores on an English and Math placement test and an oral interview which takes place approximately 6 months prior to the beginning of a new sequence of classes. Students interested in applying should contact Admissions and Records Office for further information.

- 110. Introduction to Vocational Nursing (18)**
Prerequisite. Admission to the Vocational Nursing Program.
Lecture 10 hours.
Laboratory 25 hours.
Orientation to Vocational Nursing including ethics, basic nutrition, structure and function of body systems, and obstetrical nursing. Introduction to pharmacology.
Field trips may be required.

- 112. Obstetrical and Medical Surgical Nursing (18)**
Prerequisite. Vocational Nursing 110 with a C grade or better.
Lecture 10 hours.
Laboratory 25 hours.
 Family as a unit including child growth and development. Nutrition. Structure and function of body systems.
- 114. Beginning Medical and Surgical Nursing (18)**
Prerequisite. Vocational Nursing 112 with a C grade or better.
Lecture 10 hours.
Laboratory 25 hours.
 Nutrition in disease. Nursing care of patients with diseases of the circulatory, respiratory, and digestive systems. Community health. *Field trips may be required.*
- 116. Advanced Medical and Surgical Nursing (18)**
Prerequisite. Vocational Nursing 114 with a C grade or better.
Lecture 10 hours.
Laboratory 25 hours.
 Nursing care of patients with diseases of the reproductive, endocrine, urinary, and nervous systems. Emergency and disaster nursing. Mental illness. General review.
- 130. Pharmacology for Nurses (2)**
Lecture 2 hours.
 A review of the common drugs affecting the major body systems.

HEAVY EQUIPMENT

Note: Purchase of student insurance is a prerequisite to all heavy equipment laboratory classes.

- 20. Diesel Engine Preventive Maintenance and Tuneup (1)**
Laboratory 3 hours.
 Principles of diesel engine tuneup and preventive maintenance. Practical experience in tuning a running engine.
- 25. Recreational Vehicle Engine Repair (2)**
Lecture 1 hour.
Laboratory 3 hours.
 Maintenance and repair of all terrain vehicles, trail bikes, vans, snowmobiles, motorcycles, and boat engines.
- 30. Logging Equipment (See also Forestry Technology 30) (3)**
Lecture 2 hours.
Laboratory 3 hours.
 Use of heavy equipment in the lumbering industry and landclearing.

30. (continued)

- Safety training and accident prevention; fire laws and equipment. (*Credit for this course will be awarded for either Heavy Equipment 30 or Forestry Technology 30 but not both. May not be repeated.*)
- 101. Introduction to Heavy Equipment (2)**
Lecture 2 hours.
 Use of heavy equipment in construction industry; safety training and accident prevention; plan reading and grade setting.
- 103. Heavy Equipment Apprenticeship (1)**
Prerequisite. Concurrent enrollment in Heavy Equipment 101.
Lecture 1 hour.
 Historical and legal background, administration of apprenticeship systems, the operating engineer apprenticeship, Federal and State laws that provide worker security.
- 105. Internal Combustion Engines—Diesel (4)**
Lecture 2 hours.
Laboratory 6 hours.
 Principles, construction, and operation of diesel engines. Practical experience in the dismantling, assembly, operation and maintenance of diesel engines.
- 112. Automatic Control Systems (4)**
Lecture 2 hours.
Laboratory 6 hours.
 The repair and maintenance of heavy equipment control systems operated by physical controls.
- 115. Special Systems (4)**
Lecture 2 hours.
Laboratory 6 hours.
 Instruction in hydraulics, rigging, pneumatics, and basic electrical systems.
- 120. Gas Welding (2)**
Lecture 1 hour.
Laboratory 3 hours.
 Basic gas welding for shop and field repair of heavy equipment components.

- 123. Welding Non-Ferrous Metals (1)**
Laboratory 3 hours.
 Instruction and manipulation in welding of non-ferrous metals with the oxygen acetylene torch and the shielded arc process.
- 125. Arc Welding (2)**
Lecture 1 hour.
Laboratory 3 hours.
 Basic arc welding for shop and field repair of heavy equipment components.
- 130ab. Electrical Control Systems (4) (4)**
 (a) *Lecture 2 hours.*
Laboratory 6 hours.
 (b) *Prerequisite. Previous or concurrent enrollment in Heavy Equipment 130a or Consent of the Instructor.*
Lecture 2 hours.
Laboratory 6 hours.
 Advanced study of electricity, magnetism, batteries, generators, motors and circuits.
- 132. Heavy Duty Drive Train Repair (3)**
Lecture 3 hours.
 Repair of bearings, clutches, fluid drives, transmissions and brakes.
- 134. Heavy Duty Equipment Repair (3)**
Lecture 3 hours.
 Repair of tracks, wheels, steering, pumps, and compressors.
- 136. Construction Rigging (2)**
Lecture 1 hour.
Laboratory 3 hours.
 Use of ropes, chains, hooks and slings. Handling loads on cranes, hoists, derricks. Safe operation of jacks, rollers, and skids.
- 138ab. Advanced Maintenance Laboratory (2) (2)**
Laboratory 6 hours.
(Independent Study and Guided Practice.)
 Special repair projects are assigned to advanced students with emphasis on speed, accuracy, and work habits.
- 140. Heavy Equipment Attachments (2)**
Lecture 1 hour.
Laboratory 3 hours.
 Major attachments for dozers, tractors, and cranes.

- 180. Directed Field Study (3)**
Lecture 1 hour.
Laboratory 6 hours.
 Specialized areas of field work and/or individual study projects not available as regular course offerings.
 See provisions on credit limitation (page 34).

HISTORY

- 49. Local History (1-2)**
Lecture 1 hour equals 1 unit of credit.
Lecture 1 hour, Laboratory 3 hours equals 2 units of credit.
 An introduction to Tuolumne County through the use of speakers, field trips, and informal discussions.
Field trips are required.
- 104abc. World Civilization (4) (4) (4)**
 (a) *Lecture 4 hours.*
 Rise and decline of civilizations to 500 A.D. Prehistoric cultures, the ancient Near East, the ancient Far East, Greek history and civilization, Roman history and civilization.
 (b) *Lecture 4 hours.*
 Development of major civilizations from 500 to 1700 A.D. Rise of medieval Europe, the Byzantine Empire, the Moslem world and Africa; contemporary India, China and Japan; the Renaissance and Reformation periods; the expansion of Europe into the non-Western world to the age of Louis XIV.
 (c) *Lecture 4 hours.*
 Development of European, American, and non-Western civilizations from 1700 A.D. to the present. Emergence of national states, their struggle for world power, and their impact on the non-western world.
- 111. Asia (4)**
Lecture 4 hours.
 Survey of the political and cultural history of India, China, Japan, and Southeast Asia; the response of Asian nations to the impact of the West, and resulting contemporary problems.
- 113. China (4)**
Lecture 4 hours.
 Survey of the development of China from its earliest civilization to its major place in the contemporary world.
- 117ab. United States (5) (5)**
 (a) *Lecture 5 hours.*
 Historical development of the United States from colonization to the Civil War and Reconstruction; an analysis and interpretation of political, economic, and social institutions and ideas.

117 ab. (continued)

- (b) *Lecture 5 hours.*
Historical development of the United States through an analysis and interpretation of political, economic, and social institutions and ideas. The Reconstruction period; expansion of the West; growth of industrialization; rise to world power; contemporary American problems.

121ab. California (3) (3)

- (a) *Lecture 3 hours.*
Formative years of California history from the Spanish discovery to 1870. Institutions and personalities of the Spanish-Mexican period; United States conquest; and the gold rush period.
Field trips may be required.
- (b) *Lecture 3 hours.*
Economic, social, intellectual, and political development of California since 1843. Influences of gold, isolation, transportation, water, petroleum, farming, population growth, and progressivism.

133. Oral History (2)

Prerequisite. Any history course.

Lecture 1 hour.

Laboratory 3 hours.

Fundamentals of the tape-recorded interview. Demonstrations and discussions of the interview as a method in historical research and writing.

May be repeated once for credit.

149. The Mother Lode (3)

Lecture 3 hours.

History and lore of the Mother Lode Country, with particular emphasis on Tuolumne County.

Field trips may be required.

HOSPITALITY MANAGEMENT

Hotels-Motels, Resorts, Food Services, Recreation Industry

101. Introduction to the Hospitality Industry (3)

Lecture 3 hours.

An introduction to the hotel-motel, food service, travel agency, and recreation business.

103. Merchandising the Hospitality Industry (3)

Lecture 3 hours.

Sales promotion and methods used to obtain public recognition and goodwill.



LODGING

- 110. Hotel-Motel Management (3)**
Lecture 3 hours.
Organization and operation of public lodging facilities.
- 112. Front Office Management (3)**
Lecture 2 hours.
Laboratory 3 hours.
Essential routines behind the hotel desk, front office relationship to other hotel departments, duties of the front desk clerk, salesmanship, guest relations, correspondence, sales and reservations, telephone procedure, house rules, forms, registration, rooming the guest, guest accounts, guest records, credit and cash, basic accounting, equipment in use, NCR 42, 52, and 5, transcript, data register, reservations systems, glossary.
- 115. Hotel-Motel Housekeeping (3)**
Lecture 2 hours.
Laboratory 3 hours.
The broad scope of the housekeeper position, stressing employee training, record-keeping, executive responsibilities, and use of equipment and materials.
- 116. Laws of Innkeeping (3)**
Lecture 3 hours.
California innkeepers law: legal relationships between innkeepers and others; rights, duties, and liabilities of innkeepers and their personnel. Rules to avoid lawsuits; legal pitfalls, statutes and their effect.
- 120. Maintenance and Equipment (3)**
Lecture 2 hours.
Laboratory 3 hours.
Provides essential technical information in electronics, air conditioning, plumbing, heating, electricity, acoustics, and other equipment to establish preventative maintenance routine and to make necessary operating decisions.

FOOD SERVICES

- 130. Food Service Management (3)**
Lecture 2 hours.
Laboratory 3 hours.
Menu planning, food purchasing, nutrition, sanitation, and food storage.
- 133. Introduction to Commercial Food Preparation (3)**
Lecture 2 hours.
Laboratory 3 hours.
Introduction to sanitation, safety, trade appreciation, culinary nomenclature, kitchen equipment, and basic cooking techniques as related to commercial food preparation. May be repeated twice for credit.
- 135. Commercial Baking (3)**
Lecture 2 hours.
Laboratory 3 hours.
Preparation of breads, rolls, pastries, cakes and pies; cake decorating and gourmet desserts.
- 140. Classical Cuisine (3)**
Lecture 2 hours.
Laboratory 3 hours.
Preparation of gourmet and more complicated foods using representative selections from the eight entree groups: seafood, fish, beef, veal, lamb or mutton, pork or ham, poultry, game and eggs. May be repeated once for credit.
- 147. Beverage Service, Operations and Controls (3)**
Lecture 2 hours.
Laboratory 3 hours.
Control, purchasing guides, glassware, taxes, licenses, Federal, State and local regulations, mixology, background, and future of beverage industry. May be repeated once for credit.



RECREATION INDUSTRY

- 13. Interpretive Guided Tours (See also Natural Resources Tech. 13) (2)**
Lecture 1 hour.
Laboratory 3 hours.
Methods of meeting and serving diverse public groups in their social, cultural, and recreational use of these lands.
(Credit for this course will be awarded for either Hospitality Management 13 or Natural Resources Technology 13 but not both. May not be repeated.)

- 151. Introduction to Parks and Recreation (3)**
Lecture 2 hours.
Laboratory 3 hours.
An introductory course for individuals interested in parks and recreation, with exposure to park management, design, maintenance, construction, size, type, and parks of yesterday, today, and tomorrow. Recreational aspects shall include rural and urban recreation, foundations, and elements of recreation plus job opportunities and duties in the parks and recreation field.

HUMANITIES

- 110. Current Religious Movements (3)**
Lecture 3 hours.
The search for religious meaning in the contemporary world, reflected in modern cults like Eckankar, Scientology, Urantia, Satanism, and Transcendental Meditation, and in current trends in old religions like the Jesus Movement, the Ecumenical Movement, Hari Krishna Hinduism and Zen Buddhism.
- 120. America's Religious Heritage (3)**
Lecture 3 hours.
Historical forces in American Religion traced from their European origins and colonial development up to modern American religious trends and their impact upon society.
- 130. World Religious Consciousness (3)**
Lecture 3 hours.
Development of religious consciousness from primitive beliefs in ancient times to the major religions of the world: Hinduism, Buddhism, Taoism, Judaism, Christianity, and Islam.

JOURNALISM

- 101abc. Introduction to Journalism (2) (2) (2)**
(a) *Prerequisite: Eligibility for English 101a or Consent of Instructor.*
Lecture 2 hours.
(b) *Prerequisite: Journalism 101a.*
Lecture 2 hours.
(c) *Prerequisite: Journalism 101b.*
Lecture 2 hours.
Introduction to basic newsgathering, writing techniques, production methods, photography, commercial art, advertising, libel and slander laws, journalism careers.
Field trips may be required.
- 107. Newspaper Production (1-3)**
Prerequisite: Journalism 101a, previous or concurrent enrollment in 101b or 101c.
Laboratory 3 to 9 hours.
Laboratory using campus newspaper publications and other programs for application of newsgathering, writing skills, and production methods.
Field trips may be required.
May be repeated to a maximum of 9 units.

MATHEMATICS

- 30. Basic Mathematics (2)**
Lecture 1 hour.
Laboratory 3 hours.
A basic course in arithmetic.
- 30.1 Applied Mathematics—Natural Resources Technology (1)**
Prerequisite: Previous or concurrent enrollment in Math 30.
Laboratory 3 hours.
Application of fundamental mathematics to Natural Resources Technology.
- 30.2 Applied Mathematics—Nursing (1)**
Prerequisite: Previous or concurrent enrollment in Math 30 or its equivalent.
Laboratory 3 hours.
Application of fundamental mathematics to nursing education.

- 30.3 Applied Mathematics—Construction (1)**
Prerequisite: Previous or concurrent enrollment in Math 30 or its equivalent.
Laboratory 3 hours.
Application of fundamental mathematics to the construction trades.
- 32. Beginning Algebra (5)**
Lecture 5 hours.
Algebraic structure of real numbers, development of algebraic techniques, rational operations, radicals, polynomials, factoring, linear equations, inequalities, and quadratic equations.
- 33. Geometry (5)**
Prerequisite: Math 32 or one year high school algebra recommended.
Lecture 5 hours.
Plane geometry, solid geometry, and coordinate geometry.
- 41. Slide Rule (1)**
Prerequisite: Math 32 or equivalent.
Lecture 1 hour.
Calculations involving multiplication, division, exponential numbers and logarithms with the aid of a slide rule.
- 51. Business Mathematics (See also Business 51) (4)**
Lecture 4 hours.
Mathematical problems of buying, selling, interest, discounts, insurance, commissions, payrolls, depreciation, and taxes.
(*Credit for this course will be awarded for either Mathematics 51 or Business Administration 51 but not both. May not be repeated.*)
- 101. Intermediate Algebra (5)**
Prerequisite: Math 32 or one year high school algebra.
Lecture 5 hours.
Extension of elementary algebra; includes complex numbers and logarithms.
- 102. Trigonometry (5)**
Prerequisite: Math 33 and Math 101 or second year high school algebra and one year geometry.
Lecture 5 hours.
An analytical approach to trigonometric functions.

- 103. College Algebra (5)**
Prerequisite. Previous or concurrent enrollment in Math 102 or high school trigonometry.
Lecture 5 hours.
 Extension of algebraic concepts; includes quadratic equations, inequalities, complex numbers, mathematical induction, binomial theorem, determinants, permutations, and combinations.
- 105. Elements of Statistics (4)**
Prerequisite. Math 101 or second year high school algebra.
Lecture 4 hours.
 Statistical concepts of probability, analysis and significance of measurements, measures of central tendency, correlation, variation, distribution, and reliability and validity of tests.
- 110. Finite Mathematics (5)**
Prerequisite. Math 32 or one year of high school Algebra.
Lecture 5 hours.
 Symbolic logic, sets, probability, vectors, matrices, and game theory.
- 120abcde. Calculus with Analytic Geometry (5) (5) (5) (5) (5)**
- (a) *Prerequisite. Two years of high school algebra, one year of plane geometry, and one-half year of trigonometry or Math 102. Math 103 recommended.*
Lecture 5 hours.
 Inequalities, relations, functions, graphs, limits, the derivative, continuity, lines, circles, and conics with geometric and physical interpretations of the derivative.
- (b) *Prerequisite. Math 120a.*
Lecture 5 hours.
 Elements of analytic geometry, introduction to integral calculus with applications and continuation of differential calculus; trigonometric, logarithmic, exponential, and hyperbolic functions.
- (c) *Prerequisite. Math 120b.*
Lecture 5 hours.
 Polar coordinates, vectors in the plane, techniques in integration, and applications of the integral.
- (d) *Prerequisite. Math 120c or one year of calculus.*
Lecture 5 hours.
 Solid analytic geometry, quadric surfaces, vectors in three dimensions, inner product, cross product, derivatives of vector functions, infinite series, power series, Taylor's theorem, differentiation and integration of series, partial derivatives, implicit differentiation, directional triple integral, moments of inertia and center of mass, surface area and volume.

120abcde. (continued)

- (e) *Prerequisite. Math 120d.*
Lecture 5 hours.
 Systems of linear equations, matrices, determinants, Cramer's rule, rank, vector spaces, linear dependence, linear transformations, orthogonality, differentiation under the integral sign, convergence of improper integrals, functions defined by integrals, vector functions, vector and scalar fields, divergence, curl, line integrals, some special types of first order differential equations, equations with variables separable, exact differential equations, integrating factors, the general first order linear differential equation.
- 130. Elementary Linear Algebra (5)**
Prerequisite. Two quarters or one semester of Algebra.
Lecture 5 hours.
 Matrices and systems of equations, the concepts of independence and dimension, linear transformations, the inverse, and linear differential operators.

MUSIC

- 100. Standard Notation (3)**
Lecture 3 hours.
 Introduction to traditional musical notation, key signatures, scales, intervals and chords, sight singing and aural perception.
- 102. Introduction to Listening (4)**
Lecture 4 hours.
 An introduction to the art of listening and the elements of musical sound in western civilization.
Field trips may be required.
- 104abcd. Aural Perception and Discrimination (2) (2) (2) (2)**
 Training of the human and aural apparatus to perceive and discriminate frequency differences and relationships within the tonal system of western civilization.
- (a) *Prerequisite. Music 100.*
Lecture 1 hour.
Laboratory 3 hours.
 Harmonic and melodic interval relationships.
- (b) *Prerequisite. Music 104a.*
Lecture 1 hour.
Laboratory 3 hours.
 Melodic and rhythmic relationships.

104abcd. (continued)

- (c) *Prerequisite. Music 104b.*
Lecture 1 hour.
Laboratory 3 hours.
Chordal relationships, Part I.
- (d) *Prerequisite. Music 104c.*
Lecture 1 hour.
Laboratory 3 hours.
Chordal relationships, Part II.

110abc. Survey of Music History and Literature (5) (5) (5)

- (a) *Lecture 5 hours.*
Ancient through classical periods.
- (b) *Lecture 5 hours.*
Romantic period.
- (c) *Lecture 5 hours.*
Impressionistic and contemporary periods.
Field trips may be required.

112. History of American Jazz (4)

Lecture 4 hours.
Nature, processes and history of jazz and popular music from its origins to the present.
Field trips may be required.

120abc. Music Theory (4) (4) (4)

- [a] *Choosing of Tones*
Prerequisite. Music 100 or Concurrent Enrollment.
Lecture 3 hours.
Laboratory 3 hours.
Exploration of sound, sense perception, and memory with respect to pitch. Introduction to tension, quality, and sonance and their relations to levels of memory. Explanation of musical sound based on physical and mathematical relationships.
- (b) *Arranging of Tones*
Prerequisites. Music 120a.
Lecture 3 hours.
Laboratory 3 hours.
Continuation of concepts of 120a with additional considerations of amplitude and duration. The study of chordal inversions and counterpoint coupled with an exploration of rhythm and volume.

120abc. (continued)

- (c) *Realization of Tones*
Prerequisite. Music 120b.
Lecture 3 hours.
Laboratory 3 hours.
Relationships of the choosing and arranging of tones, (120a and 120b) as applied to a study of the acoustical properties of instrument and voice.

126. Composition (3)

Prerequisite. Music 120b.

Lecture 2 hours.

Laboratory 3 hours.

Composing in various musical styles as well as synthesis of student's own style. Study and analysis of different methods of composition of music in relation to project chosen by student.

May be repeated one time for credit.

130. Beginning Guitar (2)

Prerequisite. Music 100.

Lecture 2 hours.

Beginning group instruction in methods and techniques of playing the guitar.

May be repeated one time for credit.

132. Beginning Woodwind (2)

Prerequisite. Music 100.

Lecture 2 hours.

Beginning performance methods and techniques on woodwind instruments.

May be repeated one time for credit.

133. Beginning Brass (2)

Prerequisite. Music 100.

Lecture 2 hours.

Beginning performance methods and techniques on brass instruments.

May be repeated one time for credit.

134. Beginning Strings (2)

Prerequisite. Music 100.

Lecture 2 hours.

Beginning performance methods and techniques on string instruments.

May be repeated one time for credit.

- 135. Beginning Percussion (2)**
Prerequisite. Music 100.
Lecture 2 hours.
 Beginning instruction in a class situation of methods and techniques of playing the following percussion instruments: snare drum, bass drum, tympani, cymbals, and keyboard percussion.
May be repeated one time for credit.
- 136. Beginning Voice (3)**
Prerequisite. Music 100.
Lecture 2 hours.
Laboratory 3 hours.
 Group instruction in the techniques of singing. Practice in correct tone production, diction, stage presence, and reading of musical notation by student.
May be repeated one time for credit.
- 137. Beginning Synthesizer (3)**
Prerequisite. Music 100.
Lecture 2 hours.
Laboratory 3 hours.
 Beginning instruction in a class situation of methods and techniques of playing the synthesizer as a performing instrument.
May be repeated one time for credit.
- 140. Intermediate Guitar (2)**
Prerequisite. Music 130.
Lecture 2 hours.
 Intermediate instruction in a class situation of methods and techniques of playing the guitar.
- 142. Intermediate Woodwind (2)**
Prerequisite. Music 132.
Lecture 2 hours.
 Intermediate instruction in a class situation of methods and techniques of playing woodwind instruments.
- 144. Intermediate Strings (2)**
Prerequisite. Music 134.
Lecture 2 hours.
 Intermediate instruction in a class situation of methods and techniques of playing string instruments.

- 150. Applied Music, Guitar (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in guitar. One hour lesson per week with a private instructor chosen by the student and approved by the college Music department. May be repeated.
- 151. Applied Music, Piano (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in piano. One hour lesson per week with a private instructor chosen by the student and approved by the college Music department. May be repeated.
- 152. Applied Music, Woodwinds (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in woodwinds. One hour lesson per week with a private instructor chosen by the student and approved by the college Music department. May be repeated.
- 153. Applied Music, Brass (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in brass. One hour lesson per week with a private instructor chosen by the student and approved by the college Music department. May be repeated.
- 154. Applied Music, Strings (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in strings. One hour lesson per week with a private instructor chosen by the student and approved by the college Music department. May be repeated.
- 155. Applied Music, Percussion (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in percussion. One hour lesson per week with a private instructor chosen by the student and approved by the college Music department. May be repeated.
- 156. Applied Music, Voice (1)**
Prerequisite. Audition.
Lecture 1 hour.
 Individual instruction in voice. One hour lesson per week with a

156. (continued)

private instructor chosen by the student and approved by the college Music department. May be repeated.

160. Sierra Singers (2)

Laboratory 6 hours.

Study and performance of mixed choral works of various periods and styles. May be repeated.

164. Mountaineers (2)

Prerequisite. Concurrent enrollment in Music 160 and Consent of Instructor; Speech 106 recommended.

Laboratory 6 hours.

Performance of specialized choral styles from madrigal to modern in an ensemble of limited size. May be repeated.

166. Community Chorus (2)

Laboratory 6 hours.

Study and performance of mixed choral works of various periods and styles. May be repeated.

169. Ensemble: Vocal Emphasis (1)

Prerequisite. Consent of Instructor.

Laboratory 3 hours.

Preparation and performance of various musical styles and media. May be repeated.

170. Symphonic Wind Ensemble (2)

Prerequisite. Consent of Instructor.

Laboratory 6 hours.

Study and performance of advanced wind ensemble literature. Attendance at all scheduled performances is required. May be repeated.

172. Jazz Ensemble (2)

Prerequisite. Consent of Instructor.

Laboratory 6 hours.

Members of the ensemble will study, rehearse, and perform American Jazz and commercial Music. Composing and arranging of Music for the ensemble will be encouraged. Style as it applies to Jazz Music and techniques of improvisation will be explored. May be repeated.

174. Stage Band (2)

Prerequisite. Consent of Instructor.

Laboratory 6 hours.

Reading, preparation and performance of music arranged for stage band in an ensemble of limited size. May be repeated.

176. Orchestra (2)

Prerequisite. Consent of Instructor.

Laboratory 6 hours.

Study and performance of orchestral literature of various styles and media. May be repeated.

179. Ensemble: Instrumental Emphasis (1)

Prerequisite. Consent of Instructor.

Laboratory 3 hours.

Preparation and performance of various musical styles and media. May be repeated.

NATURAL RESOURCES

100. Conservation of Natural Resources (4)

Lecture 3 hours.

Laboratory 3 hours.

Natural resources conservation. History of land use, field practices, and current problems of physical and biological natural resources conservation.

Field trips may be required.

101. Introduction to Soil, Water, and Atmospheric Resources (4)

Prerequisite. Biology 110 recommended.

Lecture 4 hours.

Characteristics, properties, formation, development, and utilization of soils, water, and atmosphere. Problems of wildlands and agricultural management.

Field trips may be required.

102. Properties of Soils (4)

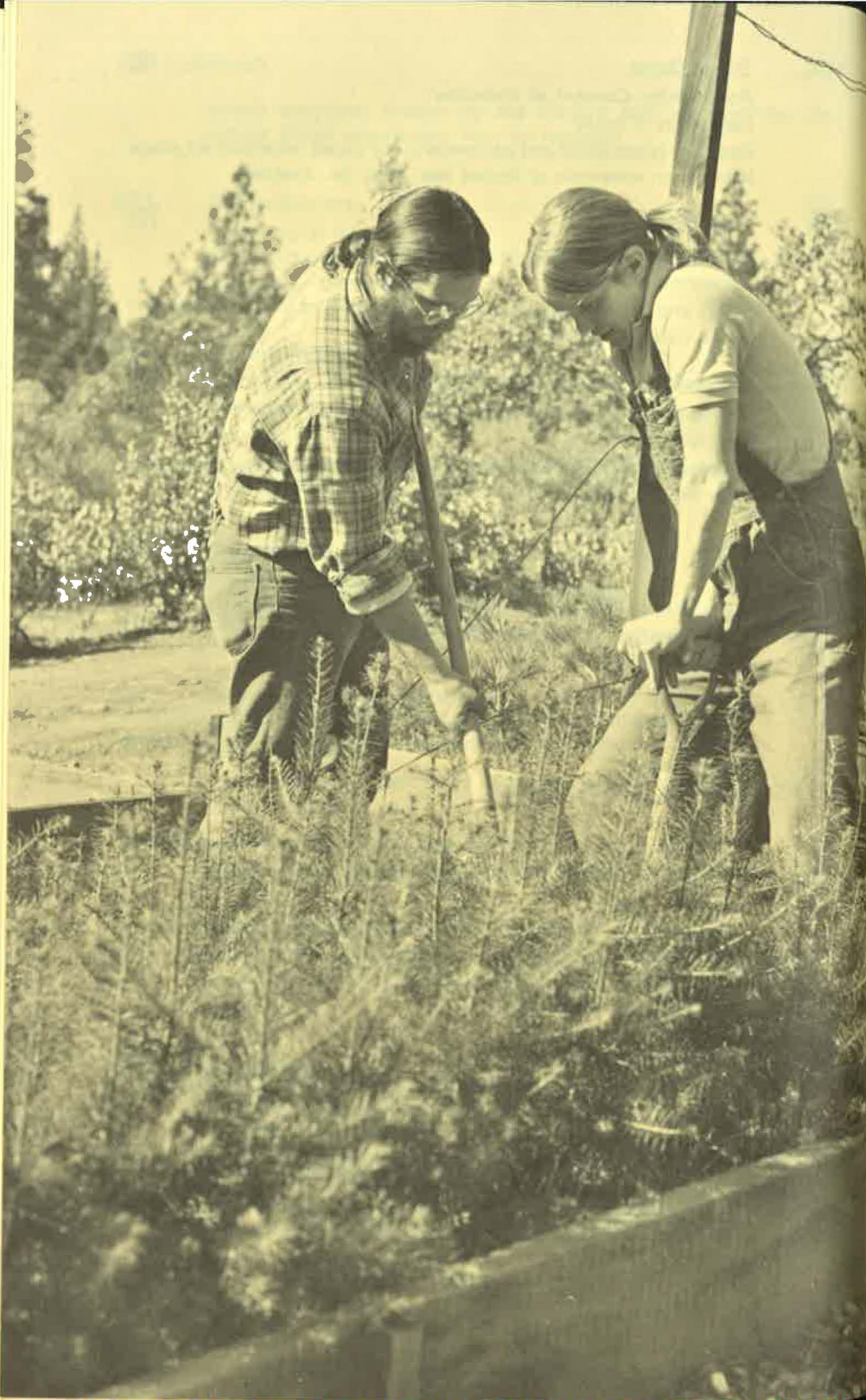
Prerequisite. Previous or concurrent enrollment in Chemistry 100.

Lecture 3 hours.

Laboratory 3 hours.

Physical, chemical, and biological properties of soils related to wildland and cultivated soils.

Field trips may be required.



- 105. Alternative Energy Sources (3)**
Lecture 2 hours.
Laboratory 3 hours.
Cause and effect relationships of the energy crisis. Practical application of wind, water, solar, and methane sources of energy as a means of self sufficiency.

- 110. Backpacking (See also P.E. 140) (2)**
Lecture 1 hour.
Laboratory 3 hours.
Practical experience in the sport of backpacking. Selection and use of equipment, preparation, planning and physical performance of hiking and backpacking. Natural interpretation related to backpacking experience.
Field trips may be required.
(Credit for this course will be awarded for either Physical Education 140 or Natural Resources 110 but not both. May not be repeated.)

NATURAL RESOURCES TECHNOLOGY

- 11. Applied Wildlife and Fisheries Management (3)**
Lecture 2 hours.
Laboratory 3 hours.
Methods and problems of manipulating and appraising wildlife and fisheries habitats. Field identification and life history of local mammals, game birds, and freshwater fish.
Field trips may be required.
- 12. Applied Wildlands Management (3)**
Lecture 2 hours.
Laboratory 3 hours.
Techniques of managing wildlands for maximum forage, water, and soil quality. Field observations and applications for restoration and protection of range and watershed values. Field identification of important forage and browse species.
Field trips may be required.
- 13. Interpretive Guided Tours (See also Hospitality Management 13.) (2)**
Lecture 1 hour.
Laboratory 3 hours.
Techniques of conducting interpretive guided tours; methods of meeting and serving diverse public groups in their social, cultural, and recreational use of multiple use recreation lands. Laboratories re-

13. (continued)

quired six weekends during quarter.

(Credit will be awarded for either *Natural Resources Technology 13* or *Hospitality Management 13* but not both. May not be repeated.)
Field trips may be required.

15. Aerial Photography and Map Interpretation (3)

Lecture 2 hours.

Laboratory 3 hours.

Utilization of basic photogrammetric instruments and equipment. Techniques of delineating soil-vegetation types and distinguishing physical features on aerial photographs. Techniques of map interpretation.

Field trips may be required.

21. Water for Consumption (4)

Lecture 4 hours.

Study of present and future sources of community water supply with special attention to state standards for potable water. Analysis processing, treatment, quality control, storage and distribution of community water.

Field trips may be required.

30. Wild Edible and Useful Plants of the Sierra (3)

Lecture 2 hours.

Laboratory 3 hours.

Survey of wild edible and useful plants of the Sierra Nevada with particular emphasis on Tuolumne County. Use of plant identification key. Method of collection, preserving, and preparing plant material for domestic use. Historical uses of native plant material including Indian and 49'er.

Field trips may be required.

PHILOSOPHY

101. Knowledge and Reality (4)

Lecture 4 hours.

Survey of the problems of philosophy with emphasis on epistemology, metaphysics and existentialism.

102. Ethics and Religion (4)

Lecture 4 hours.

Problems in ethics and philosophy of religion (Western and Oriental).

103. Values in Politics and Esthetics (4)

Prerequisite. *Philosophy 101.*

Lecture 4 hours.

Problems of individual and social values in political philosophy and esthetics.

105. Perspectives in Philosophy (4)

Prerequisite. *Philosophy 101 or 102.*

Lecture 4 hours.

Major viewpoints or schools of philosophy studied in historical sequence: classical realism, naturalism, idealism, positivism, linguistic analysis, and existentialism.

108. Humanistic and Scientific Thought (4)
(See also Physics 108)

Lecture 4 hours.

A study of the relationships between the sciences and the humanities, and of major problems in the philosophy of Science.

(Credit for this course will be awarded for either *Philosophy 108* or *Physics 108* but not both. May not be repeated.)

110ab. Logic (4) (4)

(a) Lecture 4 hours.

Basic principles of classical logic and some aspects of modern logic: deductive reasoning, including syllogisms, fallacies, truth functions, and techniques of symbolic logic. Analysis of arguments in editorials, advertisements, and news reports.

(b) Prerequisite. *Philosophy 110a or equivalent.*

Lecture 4 hours.

A brief review of syllogistic and truth-functional logic, and a survey of quantificational logic, induction, probability, and the logic of the scientific method.

PHOTOGRAPHY

101ab. Photography (3) (3)

(a) *Beginning.*

Lecture 2 hours.

Laboratory 3 hours.

Introduction to history, development, and capabilities of the art/science of photography and elementary procedures with camera and in darkroom.

(b) *Intermediate**Prerequisite. Photography 101a or Consent of Instructor.**Lecture 2 hours.**Laboratory 3 hours.*

Expansion of previous knowledge stressing creative expression through a variety of photographic techniques.

PHYSICAL EDUCATION

Physical Education courses are available for men, women, or coed sections. Check current class schedules for proper sections. Advanced sections will be designated with the prerequisite "Consent of Instructor" on current class schedules. Materials fees, insurance, special clothing, and field trips are required for some courses. These will also be designated on the current class schedules. Backpacking, Mountaineering, Alpine Skiing, Cross Country Skiing, and Water Skiing may not be repeated.

PROFESSIONAL COURSES

Required for Physical Education and Recreation majors and minors.

101. Introduction to Physical Education (2)

Lecture 2 hours.

Background and principles of Physical Education and sports. Study of the aims and objectives of modern physical education with a view toward development of basic philosophy and background for professional education.

Field trips may be required.

110. Intramural Leadership (2)

Lecture 2 hours.

Instruction and practical experience in the organization and administration of the intramural sports program. Students will be required to coordinate and supervise an activity within the college program.

111abc. Leadership Laboratory (1) (1) (1)

*Prerequisite. Previous or concurrent enrollment in P.E. 110.**Laboratory 3 hours.*

Practical experience in the organization and administration of the intramural sports program.

Students will be required to coordinate and supervise an activity within the college program.

ACTIVITY COURSES

120 Series: Courses meeting 2 hours per week for 1 unit of credit.

Badminton

The techniques involved in basic strokes. Emphasis on rules, use and care of equipment, and singles and doubles class competition.

Basketball

Instruction and practice in the basic fundamentals of the game, including individual and team concepts with intra-class competition.

Body Mechanics: Beginning

Exercise for body balance, agility, coordination, confidence, poise, and weight control.

Body Mechanics: Advanced

Prerequisite. Beginning Body Mechanics or Consent of Instructor.

Advanced physical education for the student who desires to reach an extremely high level of physical fitness and figure improvement. Course participation will include weight training for women (figure improvement), advanced calisthenics and jogging, using the aerobics fitness scale.

Bowling

Instruction and practice in the basic fundamentals of bowling emphasizing the four step approach. Lines (games) are bowled and scored for record.

Dance, Folk

Instruction and participation in folk dances from countries around the world. Background information on dances, and an introduction to basic folk dance steps.

Dance, Modern

Introduction to modern dance movement. Fundamentals, basic movement, and composition, presented and practiced as an opportunity for the student to express himself creatively through dance forms.

Fencing

Introduction to foil fencing. Instruction in basic skills and rules of the sport.

Gymnastics

Class participation in all fundamental routines. Individualized instruction in basic stunts and use of gymnastic apparatus.

Jogging and Conditioning

Instruction in progressive exercises: hiking, running, and jogging techniques as training for physical fitness.

Roller Skating

Care and selection of boot and skate. Instruction and practice for starting, stopping, and skating to music with proper body balance and control. Introduction to figure skating.

Tennis

Instruction and practice in fundamentals of Eastern grip tennis. Emphasis on development of sound ground strokes, serve and volley. Includes rules, scoring, and game play.

Trampoline

Instruction and practice in the elementary fundamentals of tumbling, graduating to the use of the trampoline and the mini-tramp.

Volleyball

Basic techniques with emphasis on offensive and defensive tactics of team play. Rules and intra-class competition included.

Wrestling

Instruction in basic skills, knowledge, and strategy. Class participation to develop fundamental holds and movements.

130 Series: Courses meeting 3 hours per week for 1 unit of credit.

Dance: Advanced Modern

Prerequisite. Beginning Modern Dance or Consent of Instructor.

Advanced work on Modern Dance movement and elements of rhythm, space and dynamics, on contemporary dance techniques, individual and group choreography, and cultural influences on expressive dance forms.

Football, Touch

Rules, techniques, and strategy of touch and flag football with emphasis on strong fundamentals. Class participation in team play to enhance improvement.

Golf, Beginning

Instruction and practice in fundamentals.

Golf, Advanced

Prerequisite, Beginning Golf.

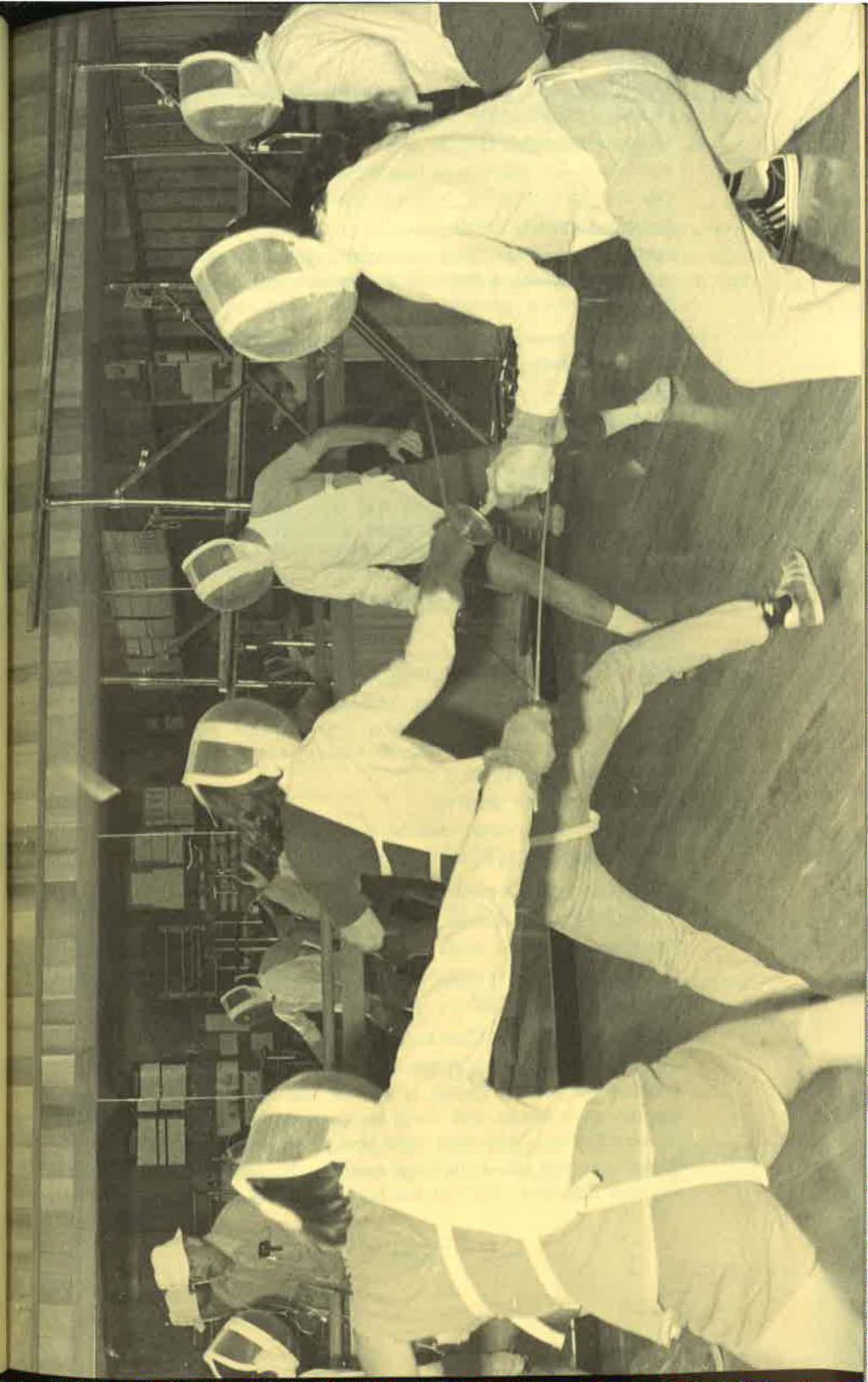
Instruction and practice in skills, rules and strategy.

Ice Skating

Selection and care of the boot and skate. Fundamentals of body balance and control to ensure safety and proper form. Introduction to figure skating and skill games.

Intramurals

Intramural participation in varied sports activities. Low key approach to competition, with participation being the meaningful factor.



Karate

Instruction and practice in the martial art of Karate. Emphasis on individual development in mental concentration and physical skills.

Mountaineering, Basic

Instruction and practice in basic climbing skills, hiking, backpacking, and light camping. May not be repeated.

Skiing, Conditioning

Instruction, practice, and conditioning for intercollegiate competition in the Alpine and Nordic events of snow skiing.

Soccer

Instruction, practice, and participation in game play. Emphasis on rules, individual skills and strategy in the field.

Swimming

Beginning swimming. Instruction in basic crawl stroke and elementary backstroke; water safety and survival.

Weight Training

Instruction in use of weights and body building equipment with emphasis upon individual program development.

140 Series: Courses meeting 4 hours per week for 2 units of credit.

Backpacking

(See also Natural Resources 110)

Practical experience in the sport of backpacking. Selection and use of equipment, preparation, planning and physical performance of hiking and backpacking. Natural history interpretation related to backpacking experience.

Field trips may be required.

(Credit for this course will be awarded for either P.E. 140 or Natural Resources 110 but not both. May not be repeated.)

Canoeing and Kayaking

Prerequisite. Intermediate swimming ability.

Fundamentals of the sport of canoeing and kayaking. Background, theory, and practical experience on local waterways.

Field trips are required.

Circus and Clown (See also Drama 140)

An indepth study of the classic clown with specific concentration on a circus performing format as well as the development of comic stunts, clown shows, and comic acrobatic exhibitions with emphasis on conditioning, locomotor skills and gymnastics.

(Credit for this course will be awarded for either Drama 140 or Physical Education 140 but not both. May not be repeated.)

Horsemanship

Fundamentals of the Western style of riding, as well as the care of the horse and equipment, feeding, grooming, tack, shoeing problems, common ailments, and their prevention. What to look for when purchasing a horse.

Mountaineering, Advanced

Prerequisite. Beginning Mountaineering or Consent of Instructor.

Stresses leadership in alpine climbing, difficult free climbing, direct aid techniques common to big wall ascents, snow and ice techniques, mountain rescue and recovery procedures.

Water Skiing

Prerequisite. Intermediate Swimming ability.

Instruction and progressive practice in the fundamental skills, safety and rules of the sport. May not be repeated.

150 Series: Courses meeting 5 hours per week for 2 units of credit.

Alpine Skiing

Instruction and practice in basic fundamentals of snow skiing on the slopes. Care and selection of equipment, terminology and safety included. May not be repeated.

Cross Country Skiing

Instruction and practice for snow skiing in the open country. Care and selection of equipment, safety, and outdoor orientation emphasized. May not be repeated.

INTERCOLLEGIATE ATHLETICS

These courses require daily practice plus travel time and competition with other colleges. *Prerequisite: Consent of Instructor.*

160 Series: Courses meeting 10 or more hours per week for 2 units of credit. May be repeated for credit to limit of students eligibility.

Cross Country Track

Golf

Skiing

Tennis

Preparation and training for intercollegiate varsity competition. Participation in contests with other colleges will be scheduled.

Field trips are required.

PHYSICS

- 108. Humanistic and Scientific Thought (4)**
(See also Philosophy 108)
Lecture 4 hours.
A study of the relationships between the sciences and the humanities, and of major problems in the philosophy of science.
(Credit for this course will be awarded for either Physics 108 or Philosophy 108 but not both. May not be repeated.)

POLITICAL SCIENCE

- 101. Constitutional Government (1-5)**
Laboratory 3-15 hours by arrangement.
United States constitution and national government; California state and local government. May be repeated for a maximum of 5 units of credit.
- 105. Introduction to Political Science (4)**
Lecture 4 hours.
Survey of basic tools and approaches by which political behavior and institutions can be analyzed.
- 110. American Political Thought (4)**
Lecture 4 hours.
Historical survey of American political doctrines and issues; influence of political traditions on American politics; contemporary American political issues.
- 111abc. Field Study in Government (2-3) (2-3) (2-3)**
(a) *Prerequisite. Consent of Instructor.*
Lecture 1 hour.
Laboratory 3 to 6 hours.
Practical experience in the administration of democracy at the local level. Students enrolled for three units will serve as interns in local government agencies (city or county).
(b) *Prerequisite. Consent of Instructor.*
Lecture 1 hour.
Laboratory 3 to 6 hours.
Practical experience in the administration of democracy at the state level. Students enrolled for three units will serve as interns in state government agencies.

111abc. (continued)

- (c) *Prerequisite. Consent of Instructor.*
Lecture 1 hour.
Laboratory 3 to 6 hours.
Practical experience in the administration of democracy at the federal level. Students enrolled for three units will serve as interns in federal government agencies.
- 115. International Relations (4)**
Lecture 4 hours.
Dynamics of interstate power relations; diplomacy and international law; international, regional and supranational organizations; war and peace; foreign policy.
- 125. Comparative Political Systems (4)**
Lecture 4 hours.
Comparative analysis of major political cultures and systems in the Western and non-Western world.

PSYCHOLOGY

- 101ab. Introduction to Psychology (5) (5)**
(a) *Basic*
Lecture 5 hours.
An introduction to the field of psychology with an emphasis on personal applications. Topics to be covered include interaction, attraction, aggression, emotions, stress, anxiety, therapy, sexuality, love, morality, prejudice, group pressure, values, self-direction and self-control.
(b) *Advanced*
Prerequisite. Psychology 101a.
Lecture 5 hours.
An introduction to the schools and major subject areas of psychology designed primarily for psychology majors.
- 103. Social Psychology (5)**
Prerequisite. Psychology 101a.
Lecture 5 hours.
Interrelationship between the individual and his social environment. Social influence upon motivation, perception, and behavior. Development of changes of attitudes and opinions. Psychological analysis of small groups, social stratification and mass phenomena.

- 105. Physiological Psychology (5)**
Prerequisite. Psychology 101a.
Lecture 3 hours.
Laboratory 6 hours.
 Study of the biological basis of behavior; body behavior relationships, neural, mechanical, and chemical intergrating systems.
- 115. Introduction to Transactional Analysis (2)**
Lecture 2 hours.
 Theory of transactional analysis and its application to the family, the classroom, and to social problems such as alcoholism or drug abuse.
- 130. Personal and Social Adjustment (5)**
Lecture 5 hours.
 Personality development; family relationships; social adjustment; factors modifying self-evaluation.
May be repeated one time for credit.
- 135. Effective Interpersonal Communication (2)**
(See also Speech 135)
Lecture 2 hours.
 Understanding and utilizing new techniques of listening, paraphrasing, and problem solving in an effective manner for better communication between parents, children, and other adults.
(Credit for this course will be awarded for either Psychology 135 or Speech 135 but not both. May not be repeated.)
- 142ab. Psychology of Leadership (5) (5)**
 (a) *Prerequisite. Psychology 101a.*
Lecture 4 hours.
Laboratory 3 hours.
 Exploration of philosophy, principles, problems, and skills of leadership; group processes, communication skills, and intragroup relationships. Group leadership and interpersonal interaction.
 (b) *Prerequisite. Psychology 101a.*
Lecture 4 hours.
Laboratory 3 hours.
 Interaction of the individual, the group and the total society; organizational and institutional behavior; humanizing organizations; research and trends; administration, organization, and management behavior.
- 143. Introduction to Group Dynamics (4)**
Prerequisite Psychology 101a.
Lecture 4 hours.
 Group behavior and interpersonal processes; analysis of group interactions.

- 144. Creative Process in Groups (4)**
Prerequisite. Psychology 143.
Lecture 4 hours.
 Creative process of small groups; understanding the creative potential in interpersonal relations.
- 145. Child Development (5)**
Prerequisite. Psychology 101a.
Lecture 5 hours.
 Growth and development of the child from prenatal life through early childhood.
- 160. Personality (5)**
Prerequisite. Psychology 101a.
Lecture 5 hours.
 The physiological, behavioral, and cultural role of perception, learning and motivation in personality.

RECREATION

- 101. Introduction to Recreation (2)**
Lecture 2 hours.
 The nature, scope, and significance of leisure and recreation in our society. The background and importance of professional recreation in America, stressing leadership, programs, and facilities.
Field trips may be required.

SKILLS DEVELOPMENT

- 21. Developmental Reading (2)**
Lecture 1 hour.
Laboratory 3 hours.
 Improvement of reading and study skills necessary for college level work. Emphasis placed on vocabulary comprehension, reading, study skills, and listening skills.
May be repeated one time for credit.
- 60. Mathematics Skills Development (1-3)**
Laboratory 3 to 9 hours.
 Individual instruction and self-instructional materials in mathematics skills units. May include any of the following:
 1. Fundamental operations with integers and rational numbers.
 2. Operation improvement skills in ratio, proportion, and percent.

60. (continued)

3. Operation improvement skills in powers, roots, and radical expressions.
 4. Skills and techniques of algebra and trigonometry.
- May be repeated for a maximum of 3 units.*

61. Basic Arithmetic (1-3)

Laboratory 3 to 9 hours.

Basic course in arithmetic covering the fundamental operations with whole numbers, fractions and decimals, as well as exponents, squares, square roots, primes and composites. The course will employ auto-tutorial materials as the primary instructional approach. May be repeated up to a maximum of three units; or if taken in addition to Math 30, Basic Math, a maximum of one unit of credit will be granted.

64. Elementary Algebra (1-4)

Prerequisite: Consent of Mathematics Department.

Laboratory 3 to 12 hours.

Basic course covering algebraic structure of real numbers, development of algebraic techniques, rational operations, radicals, polynomials, factoring, linear equations, inequalities, and quadratic equations. The course will employ auto-tutorial materials as the primary instructional approach. May be repeated up to a maximum of 4 units; or if taken in addition to Math 32, Algebra, a maximum of 1 unit of credit will be granted.

65. Intermediate Algebra (1-4)

Prerequisite: Consent of Mathematics Department.

Laboratory 3 to 12 hours.

An extension of elementary algebra skills; includes complex numbers, logarithms, binomial theorem, progressions and probabilities. The course will employ auto-tutorial materials as the primary instructional approach. May be repeated up to a maximum of 4 units; or if taken in addition to Math 101, Intermediate Algebra, a maximum of 1 unit of credit will be granted.

70. Writing Skills Development (1-3)

Laboratory 3 to 9 hours.

Individualized instruction and self-instructional materials in specific writing skills units.

1. Spelling
2. Punctuation
3. Diction and usage
4. Basic sentence structure
5. Advanced sentence structure

70. (continued)

6. Basic paragraph structure
 7. Advanced paragraph structure
 8. Outlining
 9. Organization and development of the thesis-oriented essay
 10. Writing the term paper
- May be repeated for a maximum of 3 units.*

80. Reading Skills Development (1-3)

Laboratory 3 to 9 hours.

Individualized instruction and self-instructional materials in specific reading skills units.

1. Vocabulary improvement and word study
2. Comprehension improvement
3. Rate improvement
4. Reading charts and graphs
5. Dictionary skills improvement
6. Reading skills in the content areas

May be repeated for a maximum of 3 units.

87. Vocabulary Development (1)

Laboratory 3 hours.

A course to help readers improve their vocabulary skills and to facilitate reading for any purpose. Students develop a feeling for words and an increased awareness of the origins of the English language.

May be repeated for a maximum of 3 units.

88. Speed Reading (1-2)

Laboratory 3 to 6 hours.

Designed to help competent readers improve their reading rate and skimming and scanning skills, to facilitate rapid reading for any purpose.

May be repeated for a maximum of 3 units.

90. Study Skills Development (1-3)

Laboratory 3 to 9 hours.

Specified study skills units available include:

1. Listening improvement
2. Note taking
3. Preparing for and taking examinations
4. Vocabulary improvement skills in various content areas
5. Spelling improvement
6. Dictionary skills improvement
7. Study formulas

90. (continued)

- 8. Time management and scheduling
 - 9. Supervised study and tutorial assistance
- May be repeated for a maximum of 3 units.*

92. Library Skills Development (1)
Laboratory 3 hours.

A course to help students develop skill in using the library. A student will be able to locate any material available in the library.

95. Test Taking Skills (1)
Laboratory 3 hours.

A course designed to help students develop skills in taking tests and examinations. The student will learn to budget his test time, understand examination vocabulary, answer what is asked with neatness and clarity, and to develop confidence in his ability.

98. College Spelling (1-2)
Laboratory 3 to 6 hours.

A course to help students improve their spelling skills. Students should develop understanding about the spelling process to help them understand spelling patterns of the English language.

May be repeated for a maximum of 3 units.

SOCIOLOGY

101. Man and Society (5)
Lecture 5 hours.

Man in relation to his physical, cultural, and social environment, with emphasis on the socialization process, stratification, collective behavior, and social control.

102. American Social Patterns (5)
Lecture 5 hours.

The study of social organization focusing on the major components, such as family, religion, education, economics, politics, and technology; group networks and formal organizations; and social change.

110. Deviance and Conflict (5)
Lecture 5 hours.

The analysis of deviant behavior and social disorganization theories and trends in selected topics such as sexual deviance, family disorganization, aging, death, suicide, mental illness, drugs, medical care, population problems, poverty, crime, war.

111. Crime and Delinquency (4)

Lecture 4 hours.

Sociological analysis of criminal behavior related to social structure and the criminalization process. Juvenile delinquency related to the family, peer groups, community, and institutional structures. Roles of law enforcing and other community agencies in crime and delinquency control.

112. Family, Marriage, and The Individual (4)

Lecture 4 hours.

The family as a social unit of interacting personalities; historical and structural development of the family life in different cultures; functions, duties, and problems of family life, factors underlying family disorganization.

115. Ethnic and Minority Groups (4)

Lecture 4 hours.

A study of racial, ethnic, and religious minorities with concentration in the United States. Includes the nature and origin of discrimination, prejudice, competition, and conflict; patterns of adjustment and trends in minority relations.

119. Women in Society (4)

Lecture 4 hours.

Study of woman's role in the modern world. Emphasis on the changing role of women in America: sex roles, alternative family structures, problems in the areas of employment, child care, legal rights, educational opportunities and political representation.

SPEECH

101. Fundamentals of Speech (5)

Lecture 5 hours.

Principles of oral communication; speech composition and techniques of presenting informal and formal speeches. Emphasis given to organization, ideas, critical thinking, and evaluative listening.

102. Oral Expression and Interpretation (See also Drama 102) (5)

Lecture 5 hours.

Techniques in reading literature aloud; understanding and interpreting prose, poetry, and dramatic selections; oral presentation and expression of thought.

(Credit will be awarded in either Speech 102 or Drama 102 but not both. May not be repeated.)

- 106. Voice and Diction (4)**
Prerequisite. Speech 101.
Lecture 4 hours.
 Critical self-analysis; oral communication drills and exercises for developing voice tone production and control, voice quality, articulation, and pronunciation.
- 115. Group Discussion (4)**
Lecture 4 hours.
 Communication processes applied to informal group discussion. Individual and group participation in problem solving discussions, parliamentary procedures, and various speaking activities.
- 122. Introduction to Readers' Theatre (See also Drama 122) (4)**
Lecture 3 hours.
Laboratory 3 hours.
 Theory and practice of Readers' Theatre as an art form. Directed experiences in selecting, cutting, arranging, and performing the Readers' Theatre Script.
(Credit will be awarded in either Speech 122 or Drama 122 but not both. May not be repeated.)
Field trips may be required.
- 135. Effective Interpersonal Communication (See also Psychology 135) (2)**
Lecture 2 hours.
 Understanding and utilizing new techniques of listening, paraphrasing, and problem solving in an effective manner for better communication between parents, children, and other adults.
(Credit for this course will be awarded for either Psychology 135 or Speech 135 but not both. May not be repeated.)
- 140. Communications Within Democratic Institutions (3)**
Lecture 2 hours.
Laboratory 3 hours.
 Theoretical and practical study of the processes of communication extant in continuing public bodies.
Field trips may be required.

- 170. TV Program Production (2-3)**
Prerequisite. Consent of the Instructor.
Lecture 1 hour.
Laboratory 3 to 6 hours.
 Theory and practice of creating short programs for the television medium. Story boards, script writing, directing, and camera techniques.
May be repeated for up to 6 units of credit.

TEACHER AIDE TRAINING

- 10. Survey of Education (3)**
Lecture 3 hours.
 Personal orientation to teaching as a para-professional. The goals and objectives of public education, the teacher's role, the school system and its organization; students as learners.
- 20ab. Teacher Aide Training (3) (3)**
 (a) *Beginning*
Lecture 2 hours.
Laboratory 3 hours.
 Preparation for teacher aide duties which assist teachers in the classroom learning process with emphasis on the school environment as the place for learning.
- (b) *Intermediate*
Prerequisite Teacher Aide 20a or Consent of the Instructor.
Lecture 2 hours.
Laboratory 3 hours.
 The classroom environment focused on the personalities in the classroom: teachers, students, teacher aides, and interpersonal relationships.
- 30. Audio-Visual Materials in Classroom Use (3)**
Lecture 2 hours.
Laboratory 3 hours.
 Exploratory course in ways to assist classroom teacher to prepare, present, and fully utilize instructional media such as still and motion picture projection, graphic arts, audio systems, programmed material, bulletin boards, and other audio-visual materials.

WORK EXPERIENCE

97. General Work Experience (1-4)

Prerequisite. Consent of Instructor.

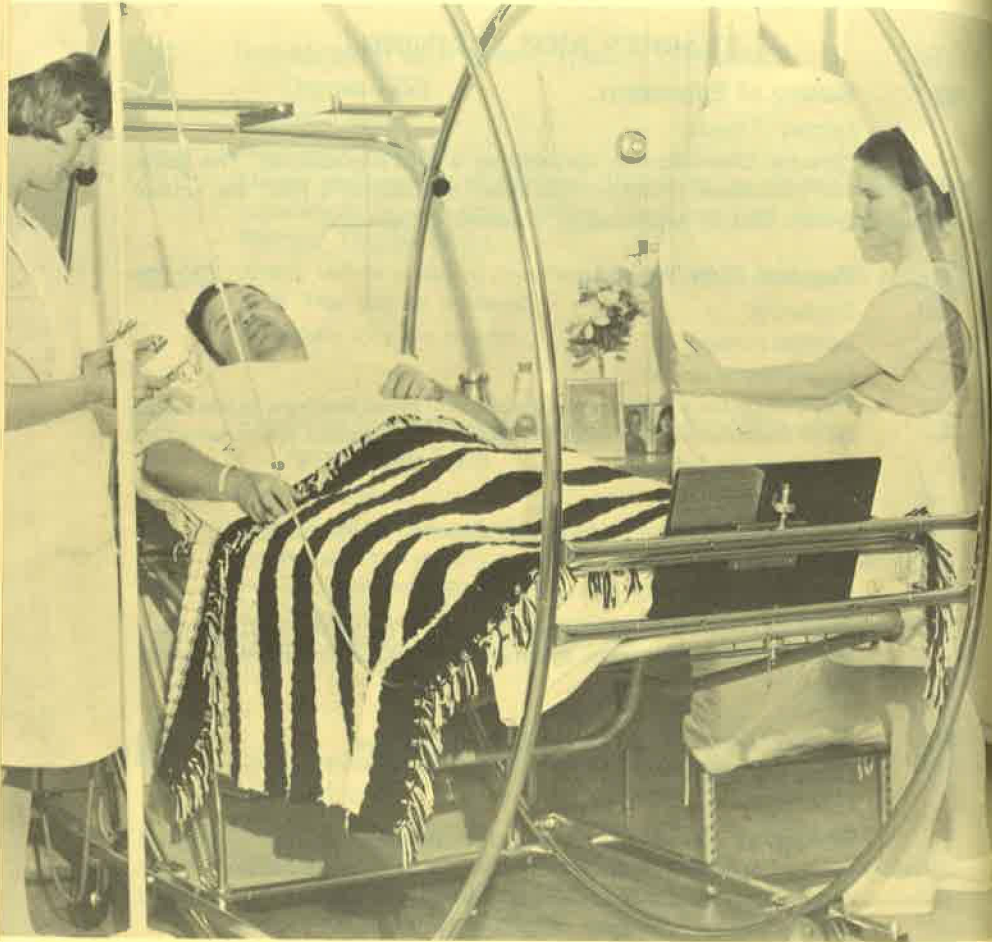
The supervised employment of students with emphasis on desirable work habits and attitudes. The job held by the student need not be related to the occupational goal of the student.

May be repeated for a maximum of 9 units.

98. Vocational Work Experience (1-4)

Prerequisite. Consent of Instructor.

Supervised employment in the occupation for which the student's college program has been designed. May be repeated for a maximum of 24 units (less any units earned for General Work Experience).



A Guiding Principle . . .

This College shall be responsive to the needs and desires of the total community. Moreover, this responsibility will transgress the artificial boundaries of town, country, or region in providing a meaningful expression of the occupational, intellectual, sociological, and cultural needs of this community.

ADULT AND CONTINUING EDUCATION

Columbia Junior College is committed to meeting the educational needs of the adults in our community. Through the Continuing Education program a variety of credit and non-credit classes are offered which fulfill requirements leading to an A.A. Degree, a high school or elementary diploma, or an assortment of vocational certificates. Most of these courses are offered during the evening at locations both on and off campus. Continuing Education courses are designed to provide opportunities to resume interrupted education, to investigate new fields of interest, and for general education for self-improvement and enriched living.

High School Diploma

High school courses, designed for adult students, are scheduled during the evening. The program is not open to students attending high school during the day. A student may be admitted to the College High School Program if he:

- (1) Is 18 years of age or older and not enrolled in day high school.
- (2) Is married, less than 18 years of age and not enrolled in day high school.
- (3) Is less than 18 years of age, but he is required to obtain a signed release from the superintendent of his high school district of residence.

Graduation requirements may be completed during any quarter. Diplomas are awarded at the close of the Spring Quarter. High school diplomas will not be awarded before a student's normal graduation date.

The College will certify completion of courses which fulfill high school graduation requirements to the student's high school district of residence. The high school of residence will officially award the diploma.

Units earned in the College High School Program are not applicable toward the Associate in Arts degree.

Elementary Certificate

Classes are offered for adults who are interested in completing an elementary certificate or who need remedial assistance.

Residents are urged to contact the College Counseling Office for information about the Adult High School or Elementary Programs.

Services in the program include evaluation of previous academic credits, requirements for graduating, and course planning by the high school awarding the diploma. Information will be mailed on request.

HIGH SCHOOL COURSES

(Each course earns 6 credits toward a high school diploma.)

English I. Grammar, Composition, and Literature

Lecture 6 hours.

Reading, grammar, and composition skills with emphasis on sentence patterns, punctuation, vocabulary, and spelling.

English II. Intermediate Grammar, Composition, and Literature

Prerequisite. English I.

Lecture 6 hours.

Continuation of English I; emphasis on complex sentence patterns, grammar techniques and accuracy in writing.

English III. Advanced Grammar, Composition, and Literature

Prerequisite. English II.

Lecture 6 hours.

Continuation of English II; emphasis on advanced usage in grammar, writing, and reading.

United States History

Lecture 6 hours.

Origin, development, structure, and functions of the state, local and federal government. Analysis of American democratic ideals and system of government compared with other forms of government.

Civics: State, Local, and Federal Government

Lecture 6 hours.

American history from English colonization to the present.

General Mathematics

Lecture 6 hours.

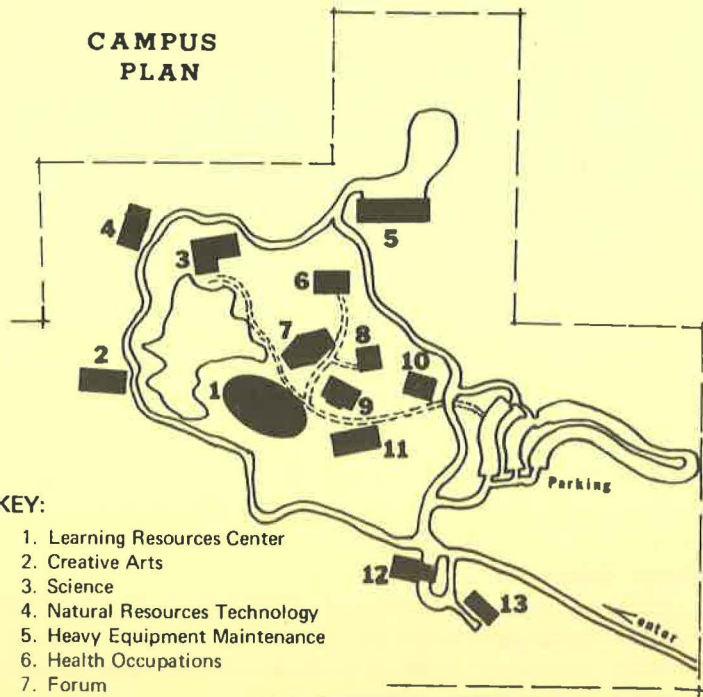
Refresher mathematics with emphasis on operation and application of real numbers; fractions, decimals, and percentages.

General Science

Lecture 6 hours.

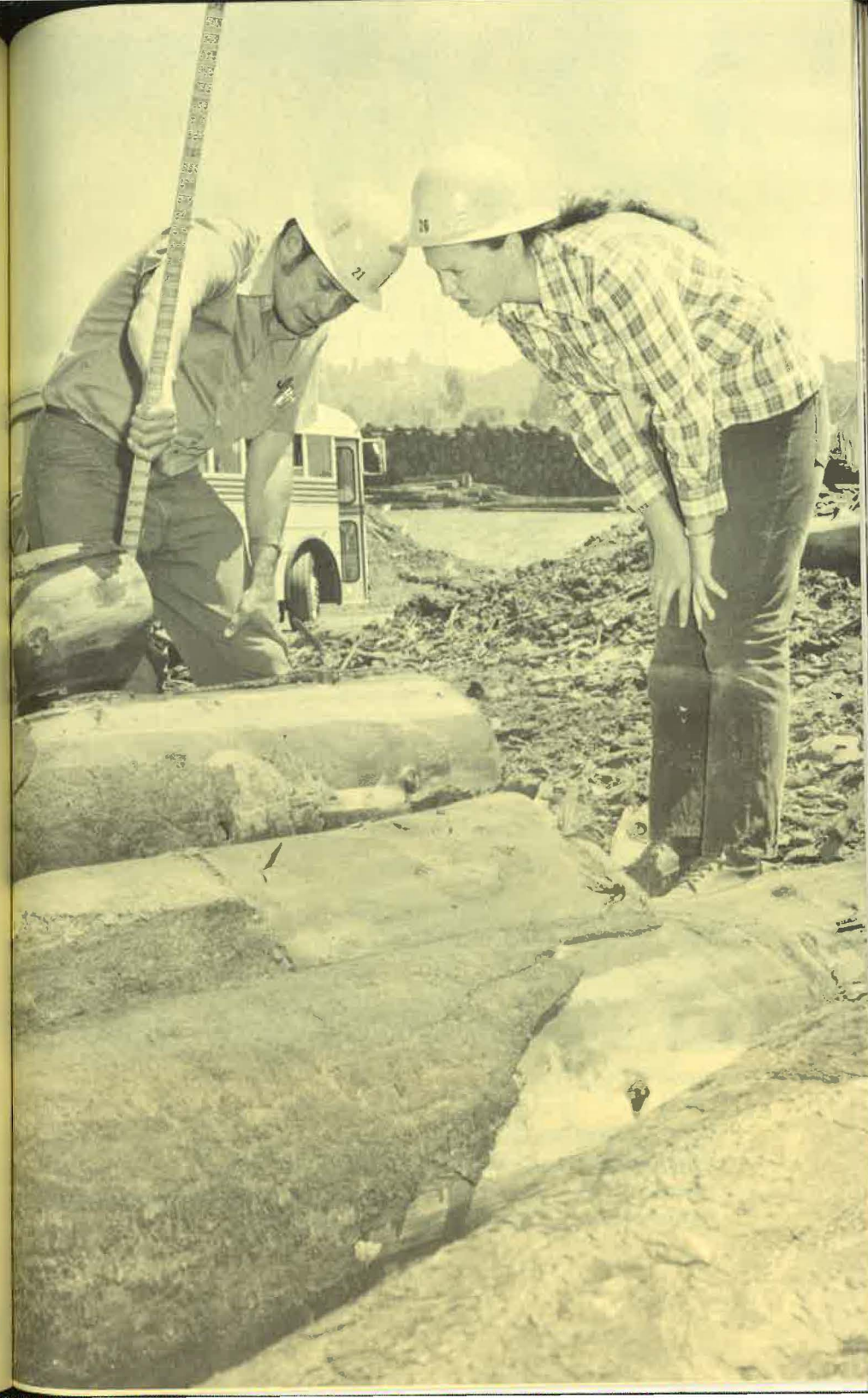
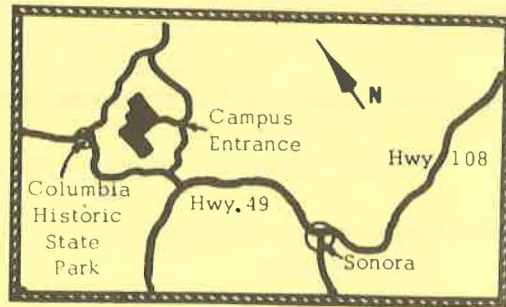
Introduction to science; concepts, techniques, and limitations of physical and biological science.

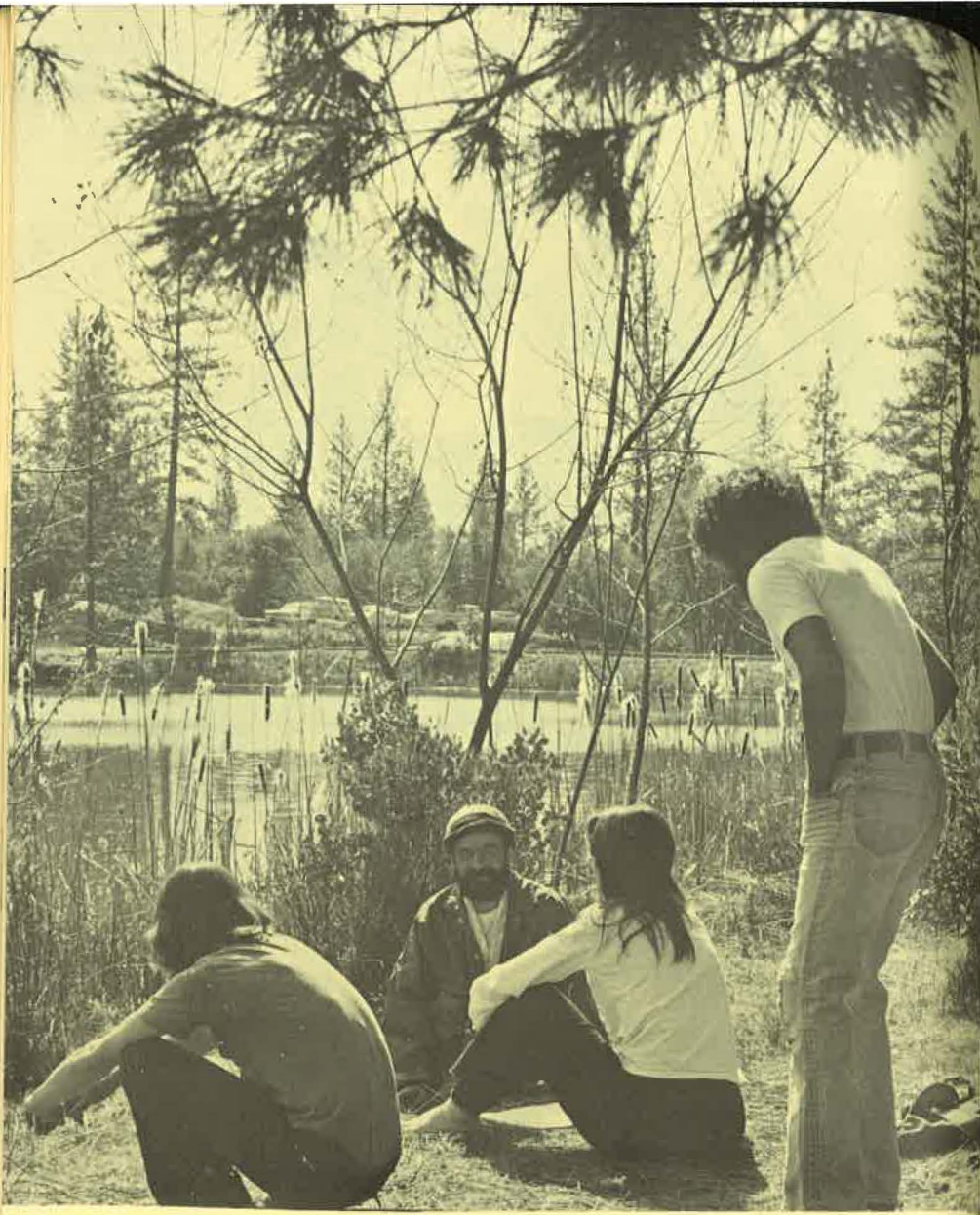
CAMPUS PLAN



KEY:

- 1. Learning Resources Center
- 2. Creative Arts
- 3. Science
- 4. Natural Resources Technology
- 5. Heavy Equipment Maintenance
- 6. Health Occupations
- 7. Forum
- 8. Seminar
- 9. Lecture
- 10. Physical Education
- 11. Business Education
- 12. Fire Science
- 13. Transportation



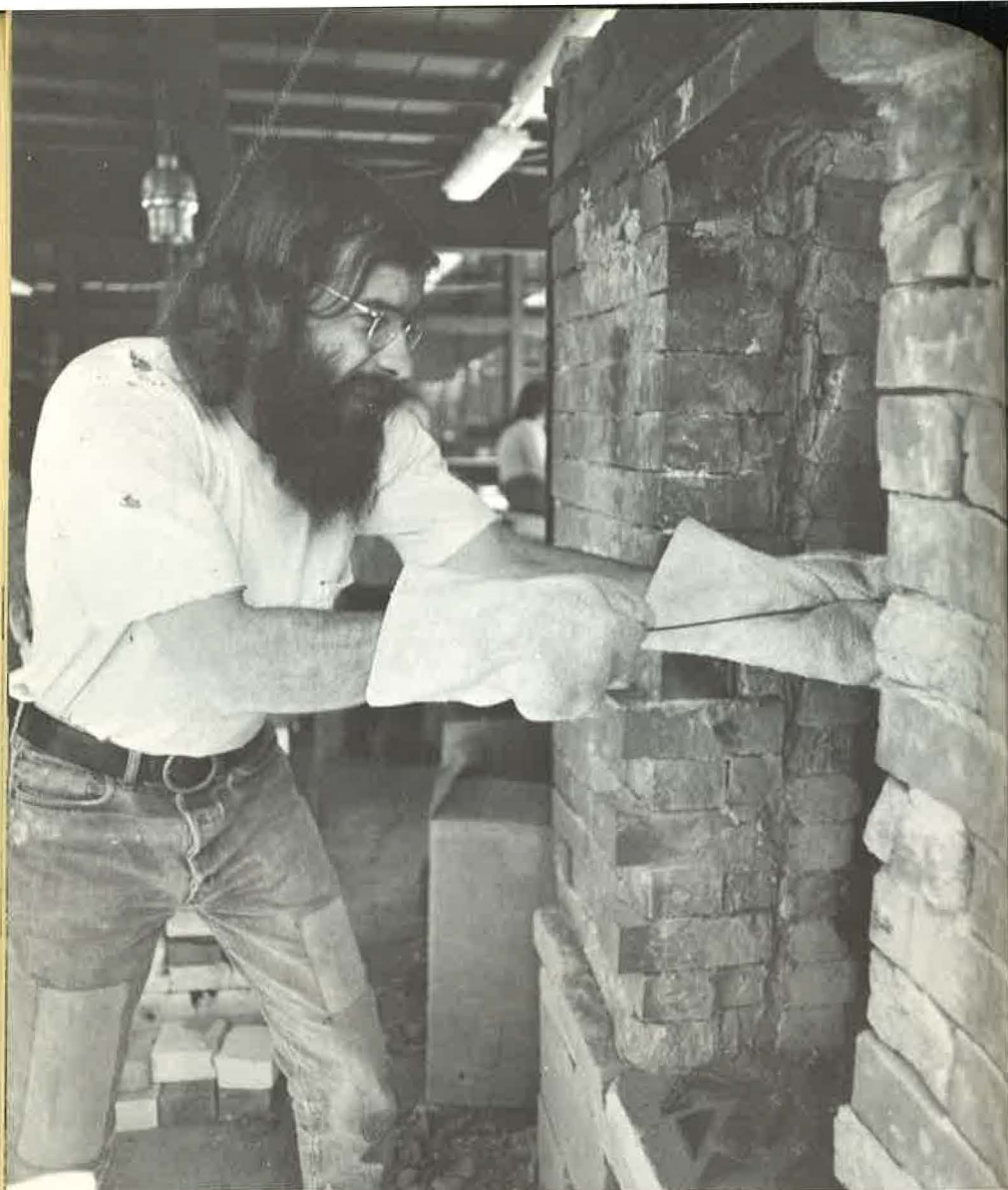


A Guiding Principle . . .

This College shall be committed to continuous planning, development, and evaluation. It shall seek and expect constant re-examination as a natural process for making appropriate modifications in every phase of its activities.

THE COLLEGE





A Guiding Principle . . .

This College shall serve the total community. It will provide educational opportunities for all people of post high school age, regardless of socioeconomic class, level of aspiration, or previous performance. Thus, this College shall adhere strictly to the open-door policy.

COLUMBIA JUNIOR COLLEGE

History

Columbia Junior College and Modesto Junior College are the two community colleges located in the Yosemite Junior College District. The former Modesto Junior College District was expanded into the larger Yosemite Junior College District in 1964 by action of the district electorate. The district is geographically one of the largest in the State and transects more than 100 miles of the fertile San Joaquin Valley from the Coast Range on the west to the Sierra Nevada on the east. The boundaries include nearly 4,000 square miles encompassing all of Tuolumne and Stanislaus Counties and parts of San Joaquin, Merced, and Santa Clara Counties.

Because of an increase in student enrollment, the need for greater educational opportunities in the mountain counties, and the great distance involved in travel for students to attend Modesto Junior College, the Yosemite Junior College District Board of Trustees authorized the formation of Columbia Junior College and scheduled its opening for September, 1968.

More than 200 acres of forest and land adjacent to Columbia State Historic Park in Tuolumne County were acquired from the U.S. Department of Interior, Bureau of Land Management, as the site for Columbia Junior College.

Campus buildings are planned around San Diego Reservoir from which wooded foothills join the rugged majesty of Sierra Nevada. In keeping with the historic atmosphere of the Mother Lode Region, the design concept of the campus is in the architectural style of early California during the Gold Rush Days. In this unusual and picturesque setting, the College is committed to a comprehensive program of academic and occupational education which focuses on the worth and dignity of each student.

Columbia Junior College is dedicated to serve the educational needs of all residents of post high school age with the most current and innovative educational program feasible.

Philosophy

This community college is dedicated to the worth and dignity of each student. Its primary responsibility is to the goals of the student, his needs, desires, and aspirations.

We believe an effective education teaches that one has a life to live as well as a living to earn. Columbia Junior College will, therefore,

involve each student in opportunities for developing his capabilities to become a useful and contributing member of society. This objective will be accomplished through a living, dynamic and continuing experience in which each individual can confront opportunities to participate actively in the learning process. In effect, education will not happen to him, but with him and by him.

Guiding Principles

Each student is a separate and unique individual who shall be accepted as such. It shall be the responsibility of each student and staff member to accept and perpetuate the philosophy of this college.

This College shall provide a focus on learning as an individual process that can best be accomplished through active involvement in a setting of reality. It shall be recognized that learning is a logical outgrowth of experiences that are meaningful to each student and not the rote acquisition of a specific body of knowledge.

The College shall be characterized by its flexibility in meeting student needs. Every facet of the institution shall expect and promote this quality.

This College shall serve the total community. It will provide educational opportunities for all people of post high school age, regardless of socioeconomic class, level of aspiration, or previous performance. Thus, this college shall adhere strictly to the open-door policy.

This College shall combine the strengths of the various disciplines, so that each will contribute to and support the bases used by students to reach their goals. No single instructional area or individual will be self-sustaining, but only as a component of the student's educational progress.

This College shall perceive achievement as a function of individual growth and not of time alone. Progress will not terminate at an artificial barrier, but continue on through the student's goal.

This College shall focus on student success. This will be accomplished by preserving an environment where each individual will have maximum freedom of choice. It will afford each student an opportunity to profit from education to the fullest extent of his capabilities.

This College shall be responsive to the needs and desires of the total community. Moreover, this responsibility will transgress the artificial boundaries of town, county, or region in providing a meaningful expression of the occupational, intellectual, sociological, and cultural needs of this community.

The personnel, functions, and services provided at this College shall be distinguished by their specific ability to meet the needs of students in reaching their particular goals. None shall base its existence upon the sole fact that it is a usual occurrence at a community college.

This College shall enable each student to acquire the trait of learning as a lifelong pattern. Learning will be considered a continuous process and not an isolated incident in given time or place.

This College shall require that each member of the faculty assume the dual roles of academic advisor in general and specific academic counselor in his discipline. This responsibility shall be apparent in student-faculty relationships and will not be the sole responsibility of Student Services personnel.

This College shall be committed to continuous planning, development, and evaluation. It shall seek and expect constant reexamination as a natural process for making appropriate modifications in every phase of its activities.

There shall be change with a purpose. Toward this end the College shall seek innovation, support creativity and imagination, while conformity for its own sake will be ignored. It shall consider technological and methodological advances which appear to have promise.

The natural and human resources adjacent to and beyond the campus shall be an integral part of the educational program. The College shall encourage student involvement in responsible citizenship.

College Functions

Implementation of the philosophy and guiding principles of this College shall be carried out through a variety of functions. These functions may be described as the actions the College will perform in meeting the defined needs of its students.

I. General Education Function

Provide a broad program of knowledge and skill acquisition in humanities, arts, and sciences for personal development.

General Education Definition

General education may be defined as a process of exposure to a variety of experiences that allow one to build a basis for meeting the challenges of life as they are encountered.

II. Transfer Education Function

Provide a comprehensive program that meets the lower

division requirements for acceptance at designated institutions.

Transfer Education Definition

Transfer education may be defined as a required study pattern of bodies of knowledge needed to gain entry into a given field of endeavor at a specified four-year institution upon leaving Columbia Junior College.

III. Occupational Education Function

Provide specialized training programs needed to develop skills, knowledge, attitudes, and other occupational competencies.

Occupational Education Definition

Occupational education may be defined as the acquisition of specified skills and knowledge needed to develop vocational competencies.

IV. Ancillary and Consultive Education Function

Provide educational services of an ancillary and consultive nature to individual students and the community.

Ancillary and Consultive Education Definition

Ancillary and consultive educational services may be defined as that range of activities which complement the students' educational program and provide the community with immediate access to the unique resources of the college.

V. Remedial Education Function

Assist the student to acquire those basic competencies needed for effective participation in programs leading to his goal.

Remedial Education Definition

Remedial education may be defined as an activity designed to develop in students the basic skills needed to participate in the educational process.

VI. Occupational and Educational Planning Function

Provide an opportunity for students to attain personal goals through a program of realistic planning and direction.

Occupational and Educational Planning Definition

Educational and occupational planning may be defined as a logical process of individual and goal analysis that guides the student to perceive directions that might best serve his needs.

VII. Continuing Education Function

Provide continuing educational and vocational activities for adults.

Continuing Education Definition

Continuing education may be defined as that broad spectrum of activities that promote learning as an ongoing process of a changing adult life.

Accreditation

Columbia Junior College is accredited by the Accrediting Commission for Junior Colleges, Western Association of Schools and Colleges. All courses have been approved by the State Department of Education and Veterans Administration.

The College is listed in directories of the United States Office of Education, the American Council on Education, and the Western Association of Schools and Colleges.

Appropriate lower division courses completed at Columbia Junior College will be accepted with full credit upon transfer to California Universities and four-year colleges.

Institutional Memberships

Columbia Junior College is a member of Region 4, California Junior College Association, the Western Association of Schools and Colleges, and the American Association of Junior Colleges and is listed as a member institution by the State Department of Education and California Coordinating Council for Higher Education.

Community Services

Columbia Junior College is responsive to the community and extends opportunities for higher education beyond the scope of daily college life. It can furnish many special community services to enrich the cultural life of the Mother Lode area. Cultural events that could be scheduled include evening forums, concerts, plays, art exhibits, and lecture programs.

Faculty members may fill leadership and consultive roles in local organizations and projects and are available for speaking engagements.

COLLEGE STAFF



A Guiding Principle . . .

This College shall require that each member of the faculty assume the dual roles of academic advisor in general and specific academic counselor in his discipline. This responsibility shall be apparent in student-faculty relationships and will not be the sole responsibility of Student Services personnel.

FACULTY

(Date of District appointment follows name.)

- JOEL C. BARBER (1967) Art, Art History
 B.A., Willamette University
 M.A., University of Oregon
- PAUL K. BECKER (1971) Dean of Student Services
 A.B., Western State College of Colorado
 M.A., Stanford University
- VIRGINIA L. BLACKBURN (1967) (on leave) Psychology
 B.A., Wichita State University
 M.A., Claremont Graduate School
- DALE L. BRATTEN (1967) Dean of Instruction
Vice President
 B.A., University of Northern Colorado
 M.A., University of Northern Colorado
- KENNETH L. BRUNGESS (1974) Music
 B.A., California State University, Long Beach
 M.A., California State University, Long Beach
- ROSS A. CARKEET, JR. (1968) Natural Resources
(on sabbatical leave)
 A.A., Modesto Junior College
 B.S., University of California, Berkeley
 M.S., California State University, Humboldt
- D. IRVING COBB (1972) Natural Resources Technology
 B.S., University of California, Berkeley
- L. FRANCES CULLEN (1971) Psychology, Counselor
Student Activities
 B.S., University of California, Los Angeles
 M.S., University of Southern California
 Ed.D., University of Southern California
- ROBERT W. DEAL (1966) (on leave) Occupational Education
 B.S., Kent State University
 M.A., Kent State University
- EDWARD C. DOELL, JR. (1973) English
 A.A., Foothill Junior College
 B.A., California State University, San Francisco
 M.A., California State University, San Francisco
- RICHARD L. DYER (1969) History, Political Science
 A.A., Mount San Antonio College
 B.A., LaVerne College
 M.A., California State University, Los Angeles

- MARION C. EVANS (1955) Director of Health Occupations
 R.N., St. Therese School of
 Nursing, DePaul University
- DEAN H. FINNEY (1970) Director of Library Services
 A.B., University of the Pacific
 M.A., University of the Pacific
 M.L.S., University of California, Berkeley
- ROBERT L. FRANCESCONI (1975) Drama
 B.A., California State University, Humboldt
 M.A., California State University, Humboldt
- McKINLEY FROST (1970) Heavy Equipment Maintenance
 A.A., Columbia Junior College
- ROBERT H. GIBSON (1970) Physical Education
Chairman, Health
Physical Education, Recreation
 A.A., Graceland College
 B.A., Central College
 M.A., California State University, San Jose
- JON M. HAGSTROM (1962) Associate Dean of Instruction
 A.A., Shasta College
 B.A., California State University, Chico
 M.A., University of the Pacific
- ROBERT H. HAMILTON (1968) History, Political Science,
Humanities
Chairman, Social Sciences
 A.B., University of California, Berkeley
 Th.M., Dallas Theological Seminary
 M.A., University of California, Berkeley
- JAMES R. HASTINGS (1973) Anthropology, Psychology
 A.A., American River College
 B.A., California State University, Sacramento
 M.A., California State University, Sacramento
- FRANCES V. HEGWEIN (1974) Health Occupations
 R.N., South Shore Hospital
- TERRY J. HOFF (1974) Physical Education
 B.A., University of California, Berkeley
 M.A., Mills College
- TOM G. HOLST (1974) Earth Science
 A.B., Augustana College
 M.N.S., University of South Dakota
 Ed.D., University of Northern Colorado
- NANCY T. HORNBERGER (1974) Sociology
 B.A., University of Rochester
 M.A., University of Pacific

C. BARRINGTON HUNT (1971) Music
 A.A., Foothill Junior College
 B.A., California State University, San Francisco
 M.A., California State University, San Francisco

THELMA A. JENSEN (1968) Health Occupations
 R.N., Highland School of Nursing
 A.A., Columbia Junior College

DONALD A. JONES (1968) Biological Science
 A.A., San Francisco City College
 A.B., California State University, San Francisco
 M.A., California State University, San Francisco

JAMES R. KINDLE (1974) Learning Skills
 B.S., Wisconsin State College
 M.A., Rockford College
 M.A., Colorado Springs College

DOUGLASE E. KOTAREK (1974) Business, Economics
 B.S., Northern Illinois University
 M.B.A., Northern Illinois University

WALTER L. LEINEKE (1968) Speech
Chairman, Humanities
 B.A., California State University,
 Sacramento
 M.A., California State University, San Francisco

JERRY D. LYON (1971) Business
 A.A., Edinburg Junior College
 B.B.A., University of Texas
 M.E., Abilene Christian College

ROBERT L. McDONALD (1969) Mathematics, Physics
Chairman,
Science, Mathematics,
Natural Resources
 A.A., Mount San Antonio College
 B.S., California State Polytechnic
 University, Pomona
 M.A., California State Polytechnic University, Pomona

JOHN C. MINOR (1970) English
 B.A., Linfield College
 M.A., University of Washington

WAYNE L. MORRISON (1974) Associate Dean, Occupational
and Continuing Education
 A.B., Brigham Young University
 M.S., University of Southern California
 Ed.D., University of Southern California

BARBARA C. PAINTER (1969) Counselor
 A.A., Modesto Junior College
 A.B., California State University, San Jose
 M.A., University of the Pacific
 Ed.D., University of the Pacific

PEGGY E. PRYZANT (1974) English
 B.A., Washington University
 M.A., Stanford University

DAVID G. PURDY (1971) Drama
 B.A., California State University, San Jose
 M.A., California State University, Fresno

HARVEY B. RHODES (1947) President
 A.B., California State University, San Jose
 M.S., University of Southern California
 Ed.D., University of California, Berkeley

BLAINE D. ROGERS (1972) Biological Science
 A.A., Bakersfield College
 B.A., California State University, Humboldt
 M.A., California State University, Humboldt

RICHARD H. ROGERS (1968) Business, Work Experience
Chairman,
Occupational Education
 A.B., California State University, Fresno
 M.A., California State University,
 Fresno

JOHN R. ROSS (1970) Director of Instructional
Materials Center
 A.B., University of the Pacific

FRANK L. RUSSELL (1973) Psychology, Sociology
 B.A., Pepperdine University
 M.A., Pepperdine University

MELBORN N. SIMMONS, (1969) Mathematics
 B.S.E., Henderson
 State College
 M.S., University of Arkansas

V. PETER SULLIVAN (1961) Physical Education
 A.A., Modesto Junior College
 B.A., Pepperdine
 University
 M.A., California State University, Sacramento

CHARLES W. WILSON (1975) Hospitality Management
 A.S., Merced College
 B.S., California State University, Humboldt

WILLIAM H. WILSON, JR. (1974)

A.A., Solano College

B.A., San Jose State College

M.S., California State University, Hayward

CLARENCE O. WOLGAMOTT, JR. (1971)

B.S., Tennessee Technological University

M.A., Tennessee Technological University

Counselor

Chemistry



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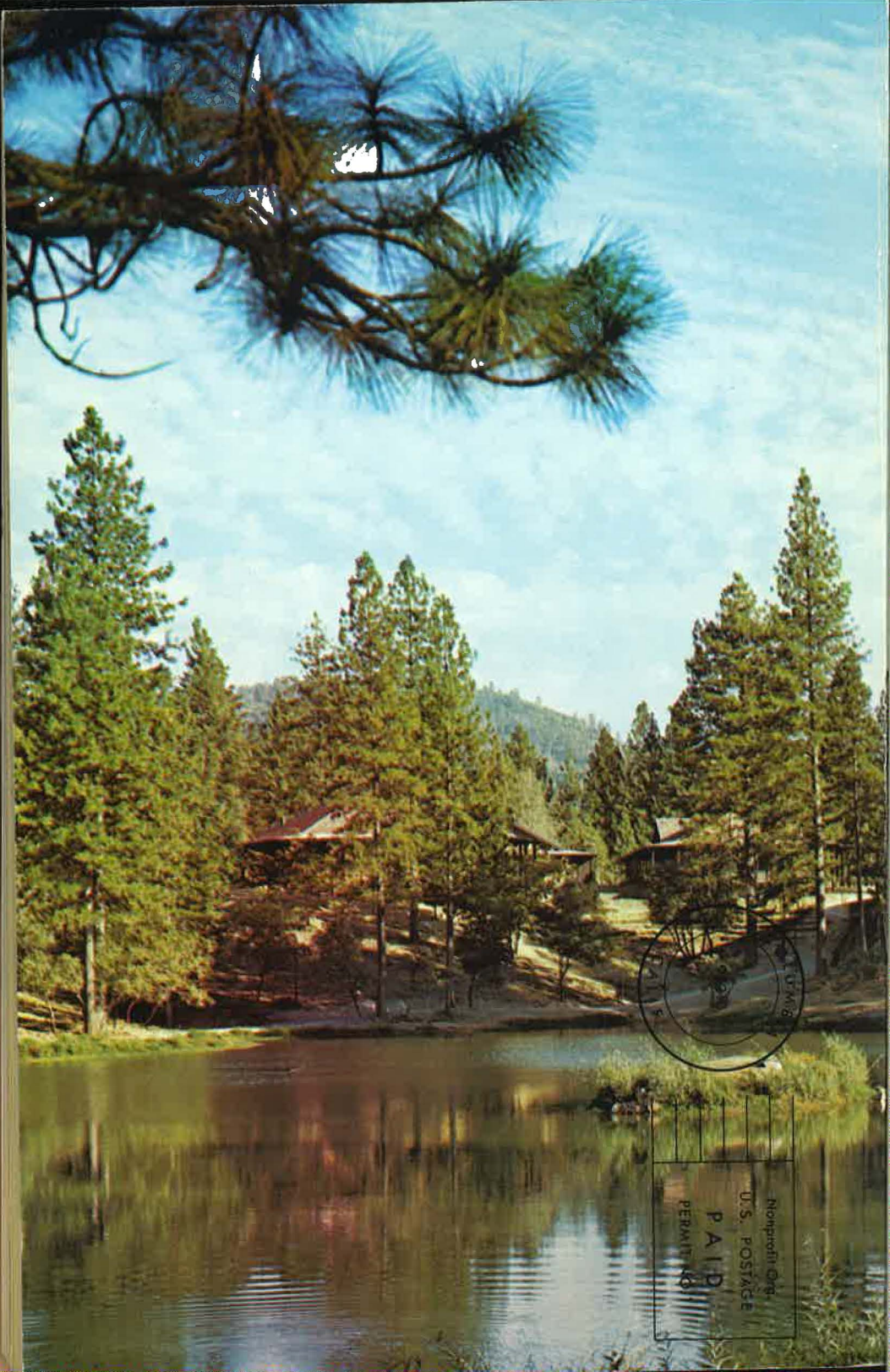
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