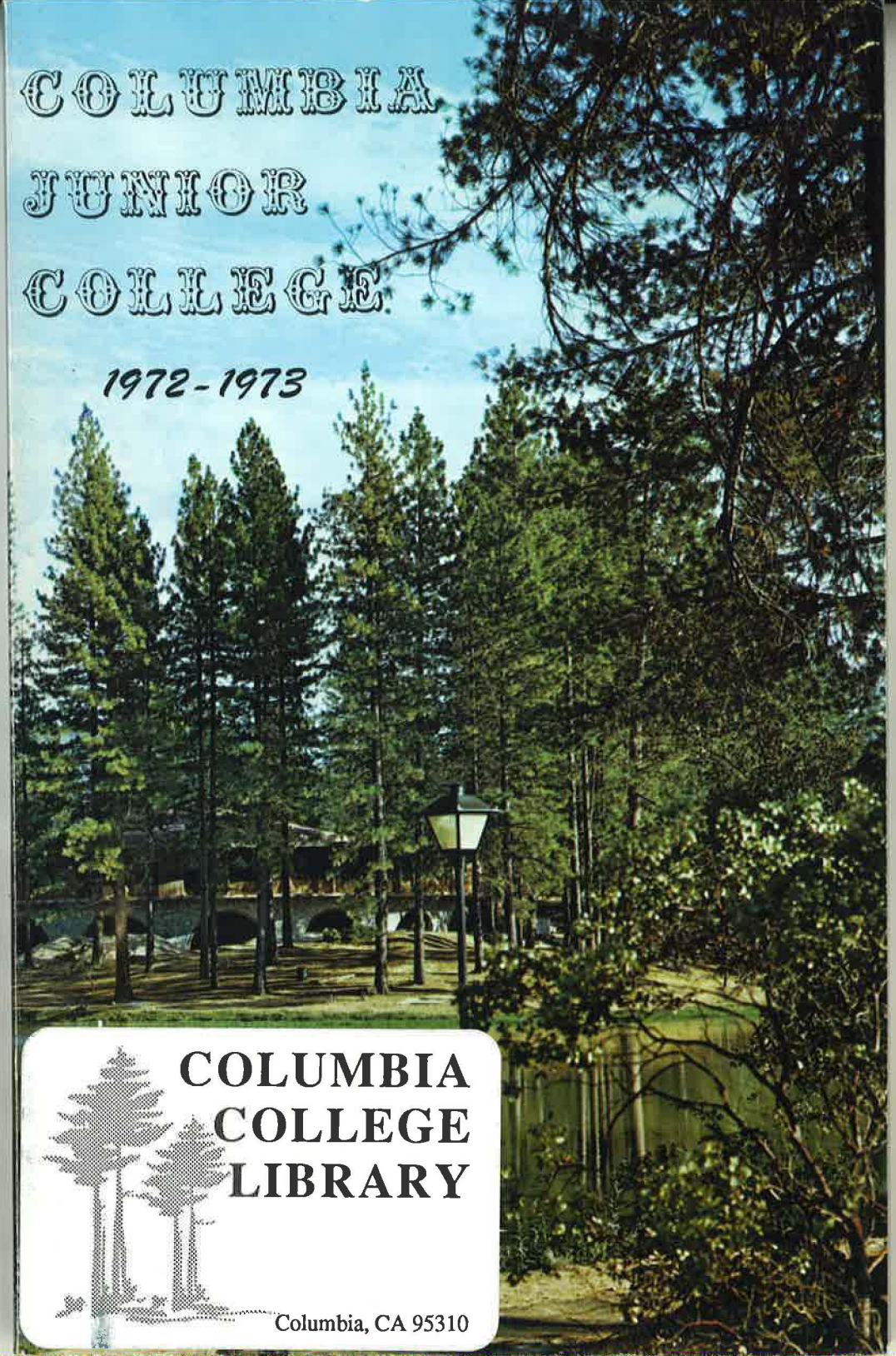


COLUMBIA
JUNIOR
COLLEGE

1972-1973



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.

Cover photograph by J. Carroll Mahoney, Sonora

COLUMBIA JUNIOR COLLEGE

P. O. Box 1849

Columbia, California

95310

(209) 532-3141

1972 - 1973



YOSEMITE JUNIOR COLLEGE DISTRICT

Price 75 cents

FALL QUARTER 1972

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

- September 18-19 . . . Advisement for Fall Quarter
- September 25 . . . Instruction Begins
- September 29 . . . Last Day to Enter a Class
- October 6 . . . Deadline for Application to Graduate for Fall Quarter
- October 23 . . . Veterans Day (Holiday)
- November 23-24 . . . Thanksgiving (Holiday)
- November 27 . . . Beginning Advisement for Continuing Students for Winter Quarter
- December 13-15 . . . Final Examinations
- December 20-29 . . . Christmas Recess

WINTER QUARTER 1973

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

- December 14-15 . . . Advisement for Winter Quarter
- January 2 . . . Instruction Begins
- January 8 . . . Last Day to Enter a Class
- January 12 . . . Deadline for Application to Graduate for Winter Quarter
- February 12 . . . Lincoln Day (Holiday)
- February 19 . . . Washington Day (Holiday)
- February 26 . . . Beginning Advisement for Continuing Students for Spring Quarter
- March 21-23 . . . Final Examinations
- March 28-30 . . . Spring Recess

SPRING QUARTER 1973

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

- March 22-23 . . . Advisement for Spring Quarter
- April 2 . . . Instruction Begins
- April 6 . . . Last Day to Enter a Class
- April 13 . . . Deadline for Application to Graduate for Spring Quarter
- May 28 . . . Memorial Day (Holiday)
- May 29 . . . Beginning Advisement for Continuing Students for Fall Quarter
- June 14-15-18 . . . Final Examinations
- June 19 . . . Commencement

SUMMER SESSION 1973

JUNE							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S

- June 21-22 . . . Registration for Summer Session
- June 25 . . . Instruction Begins
- June 27 . . . Last Day to Enter Class
- July 4 . . . Independence Day (Holiday)
- July 27 . . . Summer Program Ends

BOARD OF TRUSTEES

YOSEMITE JUNIOR COLLEGE DISTRICT



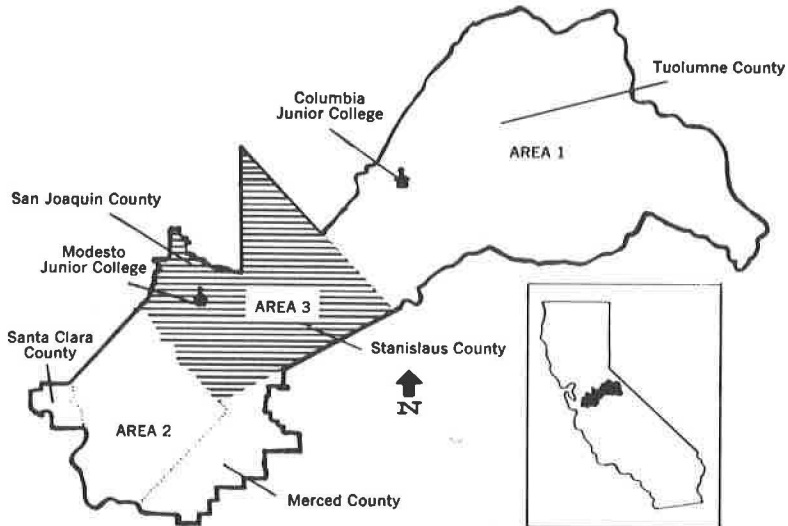
*†Grant E. Bare, M.D.
Area 3, Modesto



*†Donald S. Brady
Area 1, Sonora



*†Ian Hardie
Area 3, Modesto



Carmen Jackson
Area 3, Turlock



*Elgin E. Kersten
Area 3, Oakdale



*†Cecil G. Plummer
Area 3, Modesto



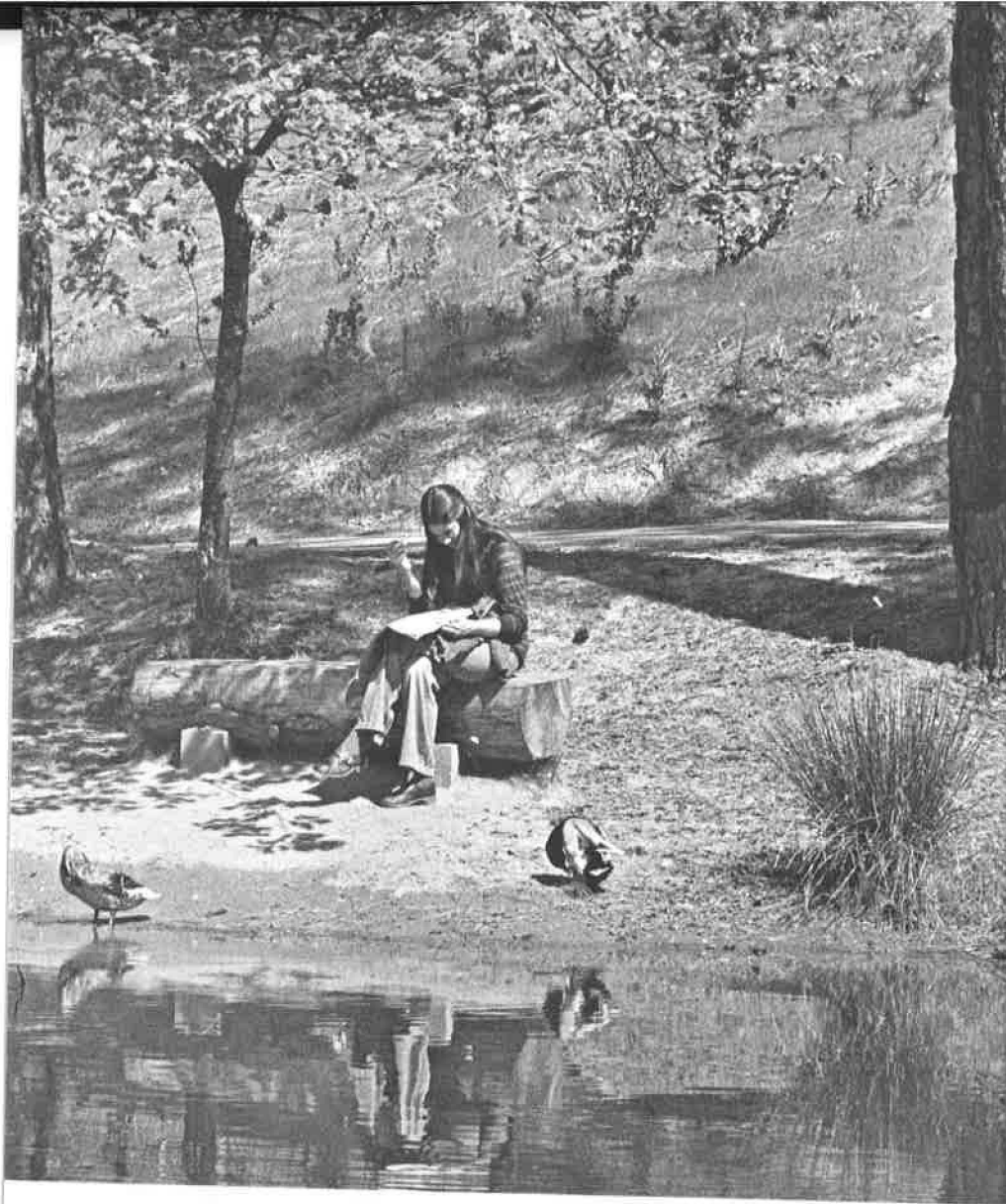
*Romain B. Stewart
Area 2, Crows Landing

*Past President
†Charter Board Member

Dr. J. Kenneth Rowland
Superintendent
Secretary to Board of Trustees

TABLE OF CONTENTS

Incoming Students	7
Admissions	15
Student Services	21
Academic Procedures	27
Graduation	39
Course Descriptions	49
The College	109
College Staff	117
Index	122



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.

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 18)

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 and suggestions for course planning in order to determine graduation requirements.

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 \$16.67 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 on the same basis as out-of-state students.

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 \$25 to \$50 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 textbooks which will be reused in courses. 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 welding, art, or craft supplies. Other classes may require insurance and/or special clothing such as some physical education classes. Laboratory breakage fees may be assessed if equipment is broken due to negligence. Special activity or field trip classes may require additional expenses.

What Kind of Living Accommodations Are Available?

There are no residence halls or dormitories on the campus. 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 10 months is used as a guide for those who live at home and commute to the campus:

Required Fees	\$ 50.00
Books and Supplies	150.00
Meals and Transportation	400.00
Personal Needs	400.00
Emergencies	150.00
	<hr/>
	\$1,150.00

For those living away from home the costs will increase approximately \$1,000 for a school year not including a summer session.

Will There Be Bus Transportation to the Campus?

School bus transportation will be provided to the extent and frequency required by student need. Students desiring bus transportation should notify the Admissions and Records Office so bus schedules can be made to serve the greatest number of students. (Page 24)

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 23)

Where Can I Find Out About Job Placement?

The Financial Aids and 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 offices and faculty. (Page 23)

How Can A Counselor Assist Me?

Counselors are available. Services include assisting students with schedules, personal problems, housing, financial assistance, scholarships and your general scholastic progress.

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.

How Do I Begin Registration?

You can obtain an application from the College or your high school counselor. Fill out the application, and send transcripts of all previous college work to the Admissions and Records Office. After the College receives these documents, you will be scheduled for an advising appointment where your program of classes will be developed and enrollment completed.

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 Are Transfer Courses?

Courses designed for transfer to California State Universities and Colleges and the University are numbered from 100 to 199. Courses numbered below 100 also may be accepted by colleges where agreements are in effect. 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 41-47)

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 28)

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.

Can I Get Help With Reading, Study Skills Problems?

There are two ways to get such help:

- (1) You can enroll in a 2-unit course called Reading 21, Developmental Reading (Page 100) which is designed to sharpen your study skills and reading abilities, or
- (2) You can pursue a no-credit independent study program which concentrates on your specific needs, e.g., speed reading, vocabulary improvement, how to study the social sciences, etc.

More information will be provided at the Learning Skills Center in the Learning Resources Building.

Is There a Student Association?

All students are members of the Associated Students of Columbia Junior College and they in turn elect a Student Congress. The

Executive Council of the Congress shall consist of the student body president, secretary, and the chairmen of the standing committees. The Executive Council is responsible for the conduct of student business, coordinates the social activities of campus organizations, sponsors educational and recreational opportunities, and serves as spokesman for the student body.

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 Executive Council 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?

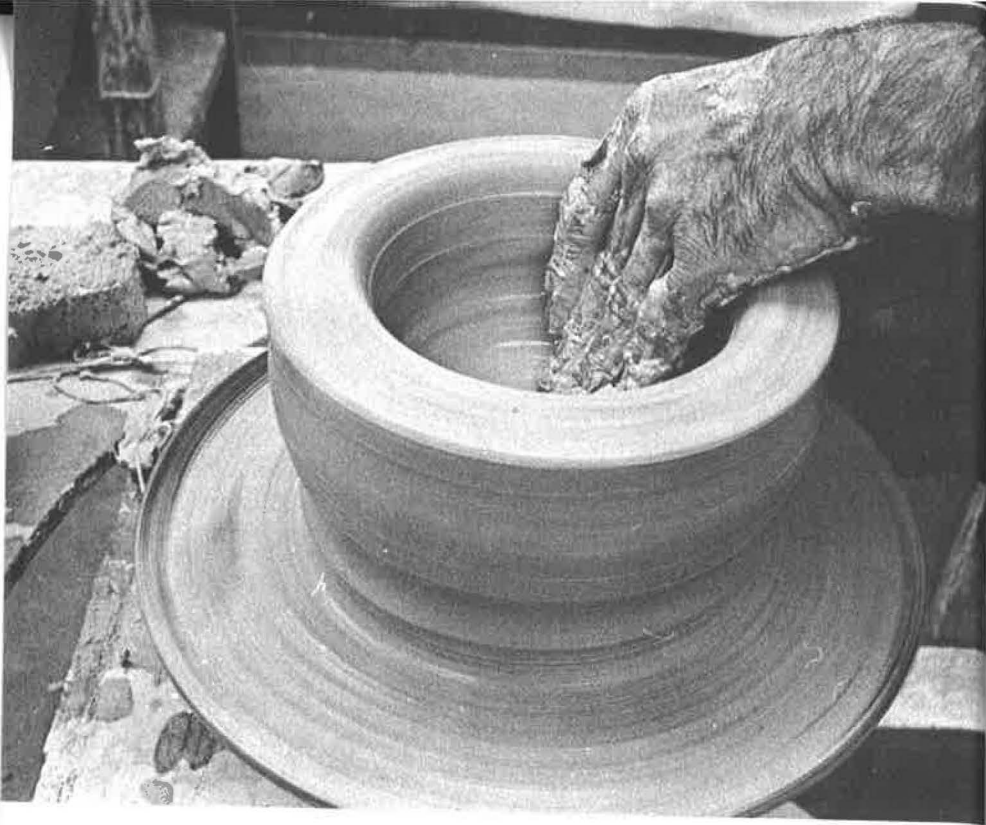
There are a number of reasons for becoming active in student affairs. College life should be a time of becoming aware of your society and developing an involvement with your society. Columbia is your school, and the more you become active in your school affairs the more Columbia becomes the kind of institution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

How Can I Go About Starting a Student Activity?

First of all, you should discuss your ideas with your fellow students, formulate a plan that you would like to see in operation at Columbia, take it to any faculty member (you may want to orient your activity to the interests of a particular faculty member), and he 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?

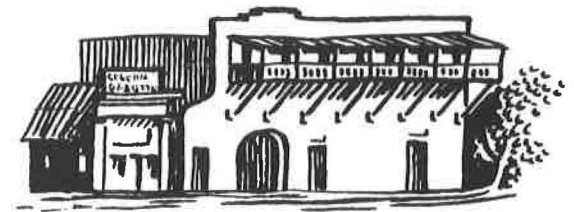
Columbia Junior College is a member of the Pacific Coast Inter-Collegiate Ski Conference. Competition is offered in the Alpine and Nordic events. Conference members include University of California at Berkeley, University of California at Davis, Stanford University, University of Nevada, Menlo College, College of the Siskiyous and Sierra College.



ADMISSIONS

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

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.

Residence Requirements

A statement of 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 high school district not affiliated with a community college district.
- (3) Is a legal resident of another 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 nonresident fee.
- (6) Is a member of the armed forces on active duty or his dependent.

Interdistrict Attendance Permits

The Yosemite Junior College District, under the provisions enacted by the 1965 Legislature of the State of California, has issued a Notice of Restriction of Attendance to each community college district in the State.

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.

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 or high school counselors in the Yosemite Junior College District.

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 supplied before completion of registration.

Notice of Acceptance

New and former day students will be notified officially of their advisement appointment to register after all application forms and documents have been received. Early advisement 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 course descriptions.

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.

If the petition is approved, the student is placed on probation until his cumulative Grade Point Average is 2.0 ("C" average) or above.

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

Petitions must be submitted 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.

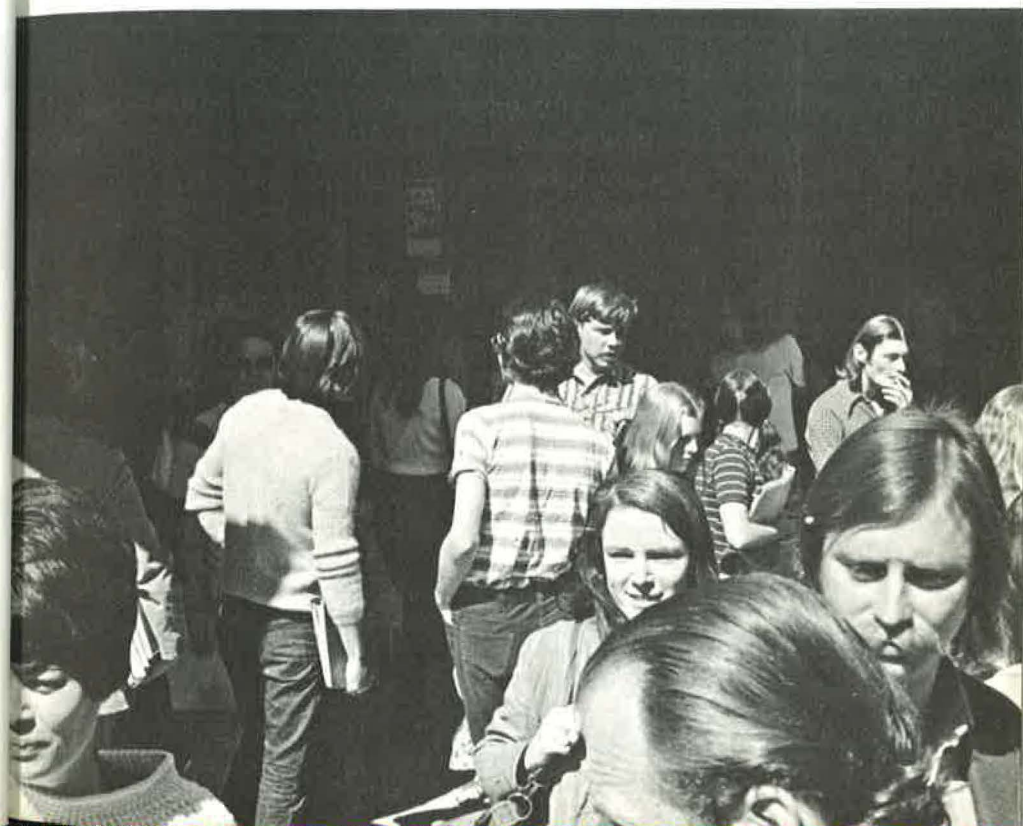
A College Counselor serves as advisor to international students.

Admission of High School Students

High school students in their junior or senior year, upon written authorization of their principal and approval of the Dean of Instruction may take community college courses.

This advanced placement program is designed to introduce motivated high school students to a college environment when, in the judgment of their principal and the Dean of Instruction, 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.





STUDENT SERVICES

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 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 the eighth week 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 an American College Testing (ACT) Program Center and General Educational Development (GED) Testing Center.

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 Services 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 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 should be obtained from the Instructional Materials Center at the beginning of the school year. The fee for this service is \$1. 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 Financial Aids and Placement Office where listings of student employment opportunities are maintained.

Work Study Funds

Students who need financial assistance to defray college expenses may be eligible for funds under the College's Federal Work Study Program. For further information contact the College Financial Aids and Placement Office.

Student Loans, Scholarships, and Grants

To enable students to continue their education, loans, scholarships, and grants have been established by individuals and organizations to provide financial aid. These funds are administered by the College Financial Aids and Placement Office.

Health Services

Illness or accidents should be reported immediately to the College Nurse or any administrator. Students having chronic health problems of a serious nature are advised to inform the Nurse immediately so that the best possible help can be rendered in case of any emergency. All students will complete an emergency health card as part of the enrollment application. A fee will be charged for health services payable at time of registration.

Transportation

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

Students requiring bus transportation should notify the Admissions and Records Office at the time of registration in order that bus schedules may be established.

Selective Service

Students are responsible for communication with their Selection Service Boards on matters relative to draft status.

Veterans Affairs

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

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, recognition honors, seminars, 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. 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 activity per week during a quarter. 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 insure that the student will have sufficient preparation before entering a course and to assure a reasonable chance for his success.

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 judgment 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; recommend 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:

5 units A	x 4	=	20 grade points
4 units B	x 3	=	12 grade points
3 units C	x 2	=	6 grade points
2 units D	x 1	=	2 grade points
2 units F	x 0	=	0 grade points
<hr/>			<hr/>
16 units			40 grade points

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

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 for which "D," "F," "N," "CR," and "NC" grades have been earned at Columbia Junior College may be repeated once.

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

Any "F" grade recorded on the transcript for the first 45 quarter units of college work attempted will not be included in computing the Grade Point Average for graduation. 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.

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 cumulative Grade Point Average of 2.5 in previous quarter of residency.
- (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 student may elect to enroll in any course outside his major for credit-no credit. A maximum of 21 "CR" units may be counted toward graduation requirements; however, no more than one course may be petitioned each quarter. A grade of "CR" indicates satisfactory completion of the course, "NC" is unsatisfactory. 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.

The student must petition a course for CR/NC by the Friday before the final examination period. Petition forms are available in the Admissions and Records Office or from the advisor.

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

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

- (1) be registered in Columbia Junior College at the time the course 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). Credit by examination may not be granted for courses the student has failed, received a grade of "NC", or as a means to raise a grade. Only Columbia Junior College courses may be challenged by examination. A maximum of 30 units may be earned by Credit by Examination. Units

earned by Credit by Examination are not applicable toward fulfillment of the residence requirement.

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

Procedures

Petitions for Credit by Examination must be obtained from the student's Advisor, approved by the instructor giving the examination, and endorsed by the Dean of Instruction.

The instructor will outline the course requirements and schedule the examination.

The petition must be filed in the Admissions and Records Office during registration and the course will be recorded as part of the student's regular program for that quarter.

The examination will be completed during the fourth week of the quarter.

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 will receive:

Military Service

Three ungraded quarter units. The graduation requirements in Health and Safety Education will be waived.

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

Normal program load is 14 to 17 units per quarter.

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.

All petitions for adding or dropping a course must be approved by the student's advisor.

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 for computing the Grade Point Average is illustrated on page 30.

A student with a Grade Point Average less than 2.0 is doing unsatisfactory work and is subject to academic probation or disqualification.

Academic Probation

The purpose of academic probation at Columbia Junior College is to insure 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 or 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.

Petitions for readmission after disqualification are available from the Admissions and Records Office.

If a student has been disqualified and feels he has extenuating circumstances worthy of consideration, he may petition 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.

Physical Education Requirement

Students are required by State law to take physical education each quarter in attendance unless exempted. A student may be excused if he is:

- (1) community college graduate.
- (2) 21 years of age on or before the first day of instruction of each quarter.
- (3) taking less than 9 units.
- (4) a veteran with at least one year of service.

Students also may be excused for medical reasons. A physician's statement must be filed in the Admissions and Records Office and renewed each quarter.

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.

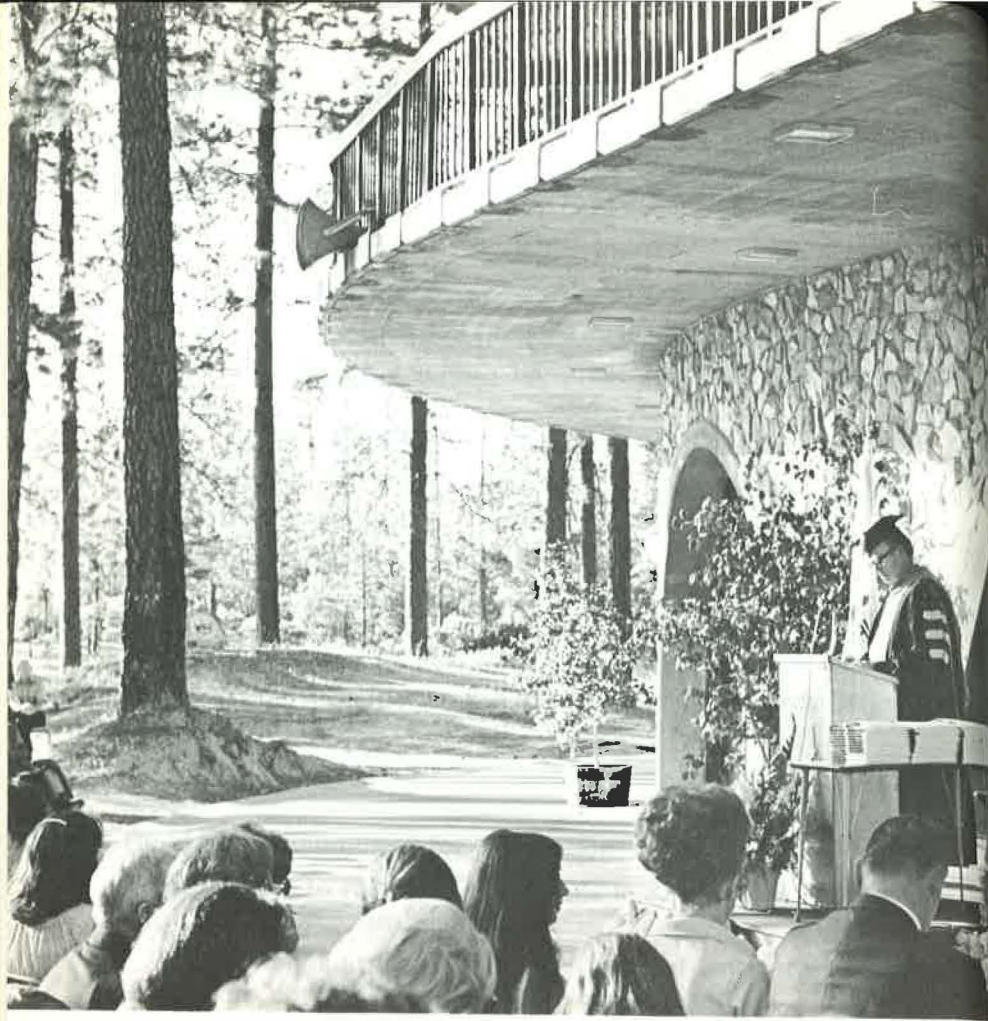
Notice of Intent to Graduate

A Notice of Intent to Graduate must be filed by each student who is eligible to receive the Associate in Arts degree from Columbia Junior College. The notice must be filed in the Admissions and Records Office no later than the second week of the quarter in which he plans to complete requirements for graduation.

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

GRADUATION





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 REQUIREMENTS

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

UNITS: Completion of 90 quarter units.

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

RESIDENCE: Completion of at least 15 quarter units of work 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.

PHYSICAL EDUCATION: One physical activity course is required each quarter of attendance. (Page 38)

MAJOR: An approved course of study of at least 30 quarter units, as described in the Advisors Handbook.

GENERAL COLLEGE: One or more courses in each of the following categories. General college course requirements may be challenged by examination. Although a course may appear in two areas in General College Requirements, students are not permitted to use the same course to fulfill more than one requirement.

- | | |
|--|---|
| <p>A. AMERICAN HISTORY AND INSTITUTIONS (one sequence):
 History 117ab.
 History 117a or b and Political Science 101.
 History 104c and Political Science 101.</p> | <p>D. WRITTEN COMMUNICATIONS (one sequence):
 English 51ab.
 English 101ab.</p> |
| <p>B. SOCIAL SCIENCE (one course):
 Anthropology (any course).
 Economics (any course).
 History 104c, 121 a or b, 133.
 Political Science (any course).
 Psychology (any course).
 Sociology (any course).</p> | <p>E. ORAL COMMUNICATIONS (one course):
 Speech 101.
 Speech 115.</p> |
| <p>C. NATURAL SCIENCE (one course):
 Biology (any course).
 Chemistry (any course).
 Earth Science (any course except 121).
 Natural Resources 100.
 Physics (any course).</p> | <p>F. HUMANITIES (one course):
 Art 101.
 Art 110a, b, or c.
 Drama 130, 133a, b, or c.
 English (any course except those listed in D).
 History 104a or b, 111, 113.
 Humanities (any course).
 Music 102, 110a, b, or c, 112.
 Philosophy (any course).
 Speech 102.</p> |
| | <p>G. HEALTH EDUCATION (one of the following):
 Health Education 101.
 † Satisfactory Military Service.
 Completion of Vocational Nursing Program.</p> |

NOTICE OF INTENT TO GRADUATE: A Notice of Intent to Graduate must be filed in the Admissions and Records Office during registration 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.

† Armed forces personnel or veterans with a minimum of one year of service may petition for credit under the provisions for Previously Earned Credits listed on pages 33-34.

**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 insure 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, Sacramento
California State University, Chico	California State College, San Bernardino
California State College, Dominguez Hills	California State University, San Diego
California State University, Fresno	California State University, San Francisco
California State University, Fullerton	California State University, San Jose
California State University, Hayward	California State Polytechnic University, San Luis Obispo
California State University, Humboldt	California State College, Sonoma
California State University, Long Beach	California State College, Stanislaus
California State University, Los Angeles	
California State University, Northridge	
California State Polytechnic University, Pomona	

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: Designated lower division major 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 105. Heredity and Evolution (4).
† Biology 110. Fundamentals of Biology (3).
† Biology 111. Principles of Biology (5).
† Biology 120. Fundamentals of Plant Biology (3).
† Biology 121. Principles of Plant Biology (5).
† Biology 130. Fundamentals of Animal Biology (3).
† Biology 131. Principles of Animal Biology (5).
- B. Physical Science (one course).
† Chemistry 100. Fundamentals of Chemistry (4).
† Chemistry 101a, 101b, 101c. General Chemistry (4) (4) (4).
† Chemistry 121a, 121b. College Chemistry (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).
† Physics 115a, 115b, 115c. Technical Physics (3) (3) (3).
† One laboratory science selected from area A or B.

SOCIAL SCIENCES

- A. American History and Institutions (one sequence).
History 117a, 117b. History of the United States (5) (5).
History 117a, 117b. History of the United States and Political Science 101. Constitutional Government (5) (1).
History 104c. History of Civilization and Political Science 101 Constitutional Government (4) (1).
- B. Psychology (one course).
Psychology 101. General Psychology (5).
Psychology 102. Experimental and Biological Psychology (5).
Psychology 103. Social Psychology (5).
Psychology 130. Personal and Social Adjustment (5).
Psychology 142a, 142b, 142c. Psychology of Leadership (5) (5) (5).
- C. Additional Social Sciences (one course).
Anthropology 101a, 101b, 101c. Introduction to Anthropology (5) (5) (5).
Economics 101a, 101b, 101c. Principles of Economics (3) (3) (3).
History 104c. History of Civilization (4).
History 121a, 121b. History of California (3) (3).
Political Science 110. American Political Thought (4).
Sociology 101a, 101b. Introduction to Sociology (5) (5).
Sociology 110. Sociology of Social Problems (5).
Sociology 112. Sociology of the Family (5).

HUMANITIES

- A. Literature, History and Philosophy (one course).
Drama 133a, 133b, 133c. Theatre Background (3) (3) (3).
English 117a, 117b. Literature of the United States (5) (5).
English 146a, 146b. Survey of English Literature (5) (5).
English 149. California Literature (5).
History 104a, 104b. History of Civilization (4) (4).
History 111. Introduction to Asian History (4).
History 113. Introduction to History of China (4).
Humanities 102a, 102b. Survey of Social Values Through Literature (3) (3).
Humanities 103. Psychological Insights into the World of Literature (3).
Humanities 110. Current Religious Movements (3).
Philosophy 101a, 101b, 101c. Introduction to Philosophy (4) (4) (4).
Philosophy 105. Perspectives in Philosophy (4).
Philosophy 110. Introduction to Logic (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 130. Drama Appreciation (3).
Music 102. Introduction to Music (4).
Music 110a, 110b, 110c. Survey of Music History and Literature (4) (4) (4).
Music 112. Survey of Jazz and Popular Music (4).
Speech 102. Oral Expression and Interpretation (5).

BASIC SUBJECTS

- A. Communications (all courses).
English 101a, 101b, 101c. Reading and Composition (3) (3) (3).
Speech 101. Fundamentals of Speech (5).

ADDITIONAL REQUIREMENTS

- A. Health Education.
Health Education 101. Health and Safety Education (3).
Satisfactory Military Service (see asterisk bottom of Page 41)
- B. Physical Education (3). Six quarters of activity courses required for students under 21 years of age.
- C. Electives: additional units to complete the 60 units of General Education Breadth Requirements may be selected from courses listed in the above categories or Math (Math 101 or above) or Foreign Language.

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 library 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.

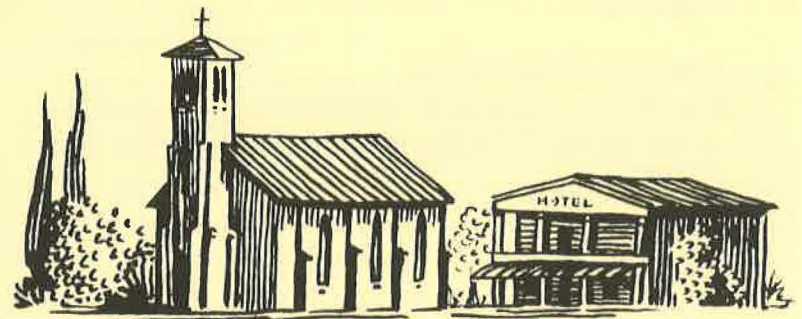




A Guiding Principle . . .

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 educational progress.

COURSE DESCRIPTIONS



DESCRIPTION OF COURSES

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 to 199 are designed as transfer courses to four-year colleges and universities.

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.

Course Information

A course description is given for each 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.

Prerequisites

Prerequisites are intended to insure 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 judgment, the student has adequate preparation to satisfy the course objectives.

Credit/No Credit Courses

Except for courses taken to fulfill Major Requirements, all courses may be petitioned for Credit/No Credit. (Pages 32 and 41)

ANTHROPOLOGY

101abc. Introduction to Anthropology (5) (5) (5)

(a) 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) Lecture 5 hours.

Primitive man and the concept of culture basic to anthropology. Emphasis on methods of fieldwork, cultural ecology, language, social structure (including marriage and divorce, the family, and kinship), the psychological perspective, religion, medicine, and cultural change.

(c) Lecture 5 hours.

Prerequisite. Anthropology 101a or 101b.

Current problems of Anthropology continued from Anthropology 101a and 101b. Intra-specific aggression, territoriality, population control, primate social organization, intra- and inter- species communication, and the present and future trends in social organization (marriage, the family, kinship), war, religion, and culture change.

104. Introduction to Anthropological Linguistics (5)

Lecture 5 hours.

The nature and scope of anthropological linguistics. Animal communication systems. Human language acquisition. Descriptive linguistics (articulatory and acoustic phonetics, phonology and grammatical analysis), 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.

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.

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 page 41.

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

1abc. Apprentice Carpentry (3) (3) (3)

*Prerequisite. Apprenticeship standing.
Lecture 3 hours.*

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

2abc. Apprentice Carpentry (3) (3) (3)

*Prerequisite. Apprentice Carpentry 1abc.
Lecture 3 hours.*

Simplified framing, framing tables, sheathing, and insulation.

3abc. Apprentice Carpentry (3) (3) (3)

*Prerequisite. Apprentice Carpentry 2abc.
Lecture 3 hours.*

Interior and exterior trim, stair layout, blueprint reading, and advanced framing techniques.

4abc. Apprentice Carpentry (3) (3) (3)

*Prerequisite. Apprentice Carpentry 3abc.
Lecture 3 hours.*

Heavy timber construction, reinforced concrete form work, blueprint reading, and estimating.

ART

All studio art classes may be offered for one or two units.

A laboratory fee may be required in studio art classes.

101. Art Appreciation (3)

Lecture 3 hours.

Introduction to historical and present-day art emphasizing principles and purposes of various forms of art.

102abc. Drawing (2) (2) (2)

(a) Basic

Laboratory 6 hours.

Introduction to perspective, composition, and rendering techniques and media.

Materials fee is required.

(b) Figure

Laboratory 6 hours.

Continuation of Art 102a with emphasis on problems of proportion, foreshortening, rendering, and composition.

Materials fee is required.

(c) Anatomy

Laboratory 6 hours.

Study of human anatomy and its application to problems in figure drawing.

Materials fee is required.

103abc. Introduction to Art (2) (2) (2)

(a) Basic

Laboratory 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

Laboratory 6 Hours.

Painting processes, elements, principles, systems of visual organization, survey of painting; emphasis on color theory.

(c) Structure and Composition

Laboratory 6 Hours.

Three-dimensional organization, including sculpture, assemblage, kinetic sculpture, and architectural design; emphasis on contemporary art and design.

106abc. Watercolor (2) (2) (2)

(a) *Introductory*
Laboratory 6 hours.

Introduction to the basic techniques and problems of transparent watercolors.

Materials fee is required.

(b) *Advanced*
Laboratory 6 hours.

Continuation of Art 106a introducing opaque watercolors and various experimental techniques.

Materials fee is required.

(c) *Special Problems*
Laboratory 6 hours.

Continuation of Art 106ab with emphasis on further experimentation and development of personal expression.

Materials fee is required.

108abc. Ceramics (2) (2) (2)

(a) *Introductory*
Laboratory 6 hours.

Introduction to clay, functionally and aesthetically, from the potter's point of view.

Materials fee is required.

(b) *Advanced*
Laboratory 6 hours.

Continuation of Art 108a with emphasis on glaze formulation.

Materials fee is required.

(c) *Special Problems*
Laboratory 6 hours.

Continuation of Art 108a and 108b with emphasis on personal expression and further experimentation.

Materials fee is required.

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

Prerequisite. Art 101 or consent of Instructor.

(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.

Continuation of Art 110a studying the art of the 15th through the 18th Centuries.

Field trips may be required.

(c) *19th and 20th Century*
Lecture 3 hours.

Continuation of Art 110b exploring the background, causes, and evolution of contemporary art.

112abc. Oil Painting (2) (2) (2)

(a) *Introductory*
Laboratory 6 hours.

Basic principles, techniques, and problems of oil painting.

Materials fee is required.

(b) *Advanced*
Laboratory 6 hours.

Continuation of Art 112a emphasizing advanced oil painting techniques and problems.

Materials fee is required.

(c) *Special Problems*
Laboratory 6 hours.

Study and application of 19th and 20th Century painting techniques to contemporary studio practice.

Materials fee is required.

114abcd. Sculpture (2) (2) (2) (2)

(a) *Introductory*
Laboratory 6 hours.

Basic principles, techniques, and problems of sculpture.

Materials fee is required.

(b) *Advanced*
Laboratory 6 hours.

Continuation of Art 114a emphasizing advanced problems and techniques in sculpture.

Materials fee is required.

(c) *Special Problems*
Laboratory 6 hours.

Continuation of Art 114a and 114b with emphasis on experimentation and development of personal expression.

Materials fee is required.

- (d) *Metal*
Laboratory 6 hours.

Introduction to various metalworking techniques with an emphasis on aesthetic design.

Materials fee is required.

AVIATION

1. **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, cross country flying, flight planning, map reading, radio communications, weather, and safety.
- 2ab. **Commercial Pilot Ground School** (3) (3)
(a) *Prerequisite. Aviation 1.*
Lecture 3 hours.
Flight information, civil air regulations, radio and navigational aids.
(b) *Prerequisite. Aviation 2a.*
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for commercial pilot certificate.
- 3ab. **Instrument Rating Ground School** (3) (3)
(a) *Prerequisite. Aviation 1.*
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for instrument rating certificate.
(b) *Prerequisite. Aviation 3a.*
Lecture 3 hours.
Preparation for Federal Aviation Administration written examination for instrument rating certificate.
- 4abc. **Airports and Operation** (3) (3) (3)
Lecture 3 hours.
An overview of the major functions of an airport from a management point of view.
8. **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.
Materials fee is required.
100. **Biology, Man and Contemporary Society** (4)
Lecture 4 hours.
Understanding of the basic nature of biology as a science. Identity of fundamental prerequisites of science, and comprehension of the relevancy of science to man and to society as people face complexity of technological advancement.
105. **Heredity and Evolution** (4)
Lecture 4 hours.
Introductory genetic principles; inheritance variation and evolution in plants and animals. Social implications of genetics and evolution.
110. **Fundamentals of Biology** (3)
Lecture 2 hours.
Laboratory 3 hours.
Modern concepts, inquiry methods, and historical background of biological unity and processes
Materials fee is required.
111. **Principles of Biology** (5)
Lecture 3 hours.
Laboratory 6 hours.
Modern concepts, inquiry methods, and historical background of biological units and processes. Investigation of such subjects as the cell, growth and development, life functions, biological systems, heredity, behavior and ecology.
Materials fee is required.
120. **Fundamentals of Plant Biology** (3)
Prerequisite. Biology 110.
Lecture 2 hours.
Laboratory 3 hours.
Structure, functions, and diversity of the plant organism.
Materials fee is required.

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.
Materials fee is required.
125. **Plant Taxonomy of the Sierra Nevada** (3)
Prerequisite. Biology 110 or consent of instructor.
Lecture 2 hours.
Laboratory 3 hours.
 A study of the flora of the Sierra Nevada with emphasis on the classification of angiosperms.
Materials fee is required.
130. **Fundamentals of Animal Biology** (3)
Prerequisite. Biology 110.
Lecture 2 hours.
Laboratory 3 hours.
 Structure, functions, and diversity of the animal organism.
Materials fee is required.
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.
Materials fee is required.

BUSINESS
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** (4)
Lecture 4 hours.
 Mathematical problems of buying, selling, interest, discounts, insurance, commissions, payrolls, depreciation, and taxes.
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.
 (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 102ab.*
Lecture 3 hours.
 Cost data and management needs, analysis of data, supplementary statements, uses of capital, cash-flow statements, department and branch operation, consolidation, profit planning, and income tax considerations.
- 103ab. **Commercial Law** (3) (3)
Lecture 3 hours.
 (a) Historical development of common law; statutes of California. Federal and State court decisions; legal aspects of business; law of contracts, agency, and employment.
 (b) Law of sales, negotiable instruments, personal property, real property, partnerships, corporations, insurance, suretyship.
105. **Fundamentals of Data Processing** (4)
Lecture 4 hours.
 History and future of data processing, card processing, computer data processing, and computer programming.

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.
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 rate 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 3 hours.
Filing rules and systems; use of office equipment and supplies.
(b) *Prerequisite. Typing skill.*
Lecture 3 hours.
Machine transcription; use of mimeograph, ditto, and copy machines.
(c) *Prerequisite. Typing skill.*
Lecture 3 hours.
Adding machines; rotary and printing calculators; key punch operation.

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

10. **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.
11. **Real Estate Practice** (4)
Prerequisite. Real Estate 10 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.
12. **Legal Aspects of Real Estate** (4)
Prerequisite. Real Estate 10.
Lecture 4 hours.
 California real estate law; titles, encumbrances, recording, real property acquisition and transfer; Penal Code.
13. **Real Estate Finance** (4)
Prerequisite. Real Estate 10.
Lecture 4 hours.
 Residential and commercial financing; lending institutions, money markets, and interest rates.
14. **Real Estate Appraisal** (4)
Prerequisite. Real Estate 11 and 12.
Lecture 4 hours.
 Appraisal of residential and commercial properties; methods and techniques for determining market value; the appraisal report.

15. **Real Estate Economics** (4)
Prerequisite. Real Estate 10.
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

1. **Elements of Supervision** (3)
Lecture 3 hours.
 Supervisor's role in business and industry; organizational policies, management directives, personnel problems and practices; leadership techniques.
2. **Middle Management** (3)
Prerequisite. Supervisory Training 1.
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.
Materials fee is required.
- 101abc. **General Chemistry** (4) (4) (4)
 (a) *Prerequisite. High school chemistry with a "B" average and high school algebra; or Chemistry 100; or consent of instructor.*
Lecture 3 hours.
Laboratory 3 hours.
 Fundamental theories and principles of atomic and molecular structure, stoichiometry, electrolytes, and the states of matter.
Materials fee is required.

(b) *Prerequisite. Chemistry 101a.*

Lecture 3 hours.

Laboratory 3 hours.

Fundamental theories and principles of kinetics, equilibria, nuclear changes, thermochemistry, spectroscopy, electrochemistry, and metals.

Materials fee is required.

(c) *Prerequisite. Chemistry 101b.*

Lecture 3 hours.

Laboratory 3 hours.

Fundamental theories and principles of metals, nonmetals, and organic chemistry.

102abc. General Chemistry Laboratory

(1) (1) (1)

(a) *Prerequisite. Previous or concurrent enrollment in Chemistry 101a.*
Laboratory 3 hours.

A laboratory survey of the structure of atoms, chemical bonds, weight relationships, chemical reactivity, gases, solutions, and colloids.

Materials fee is required.

(b) *Prerequisite. Previous or concurrent enrollment in Chemistry 101b.*
Laboratory 3 hours.

A laboratory survey of the colloidal state, kinetics, equilibria, spectroscopy, thermochemistry, electrochemistry, and chemical properties of metal.

Materials fee is required.

(c) *Prerequisite. Previous or concurrent enrollment in Chemistry 101c.*
Laboratory 3 hours.

A laboratory survey of coordination chemistry, the halogens, the sulfur family, the nitrogen family and organic chemistry.

Materials fee is required.

121ab. College Chemistry

(5) (5)

(a) *Prerequisite. High school chemistry with a "B" average and high school algebra; or Chemistry 100; or consent of instructor.*

Lecture 3 hours.

Laboratory 6 hours.

Survey of the structure of atoms and molecules, stoichiometry, electrolytes, the states of matter, chemical equilibria, and nuclear chemistry.

Materials fee is required.

(b) *Prerequisite. Chemistry 121a.*

Lecture 3 hours.

Laboratory 6 hours.

Survey of thermochemistry, electrochemistry, metals, nonmetals, hydrocarbons and their derivatives.

CONSTRUCTION

1. Introduction to Carpentry

(4)

Lecture 3 hours.

Laboratory 3 hours.

Theory and practice of framing non-commercial buildings for private use. Construction of small non-structural projects.

CRIME PREVENTION

Criminal Justice

Beginning with the Fall Quarter, 1972, courses in Correctional Science and Law Enforcement will be 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 and pre-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 Assistant Dean of Instruction, Occupational Education.

Crime Prevention

- 100ab. Causes of Crime** (5) (5)
Lecture 5 hours.
Trends in American crime. The criminal in his peer group and society. Organized and individual criminal behavior.
- 101ab. Organizations for Prevention of Crime** (5) (5)
Lecture 5 hours.
Staffing patterns, facilities, and programs of organizations designed to prevent criminal behavior in America.
- 103. Supervised Field Work** (2-5)
Prerequisite. Previous or concurrent enrollment in Crime Prevention 100, 101, or 102.
Lecture 2 hours.
Laboratory 3 to 9 hours.
Supervised field work with experiences in several of the surrounding facilities involved in crime prevention.
May not be repeated.
- 110. Comparison of Contemporary Crime Prevention** (3)
Lecture 3 hours.
Comparison of contemporary crime prevention of some European countries with American Criminal Justice programs.

Law Enforcement

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

DRAFTING

- 1. Blueprint Reading** (2)
Lecture 2 hours.
Residential and commercial print reading, printing processes applied to drafting and trade competency testing.

- 2. Beginning Drafting** (3)
Lecture 2 hours.
Laboratory 3 hours.
The use of tools and materials, knowledge of lettering, geometry, freehand sketching, orthographic projection, sectioning and basic dimensioning.
- 102abc. Basic Drafting** (3) (3) (3)
(a) Prerequisite. Drafting 2.
Lecture 2 hours.
Laboratory 3 hours.
For those with no drafting knowledge. History, language, lettering, freehand sketching, instruments, and construction.
- (b) Prerequisite. Drafting 102a.*
Lecture 2 hours.
Laboratory 3 hours.
Orthographic projection, auxiliary views, dimensioning, tolerancing, threads, fasteners, and springs.
- (c) Prerequisite. Drafting 102b.*
Lecture 2 hours.
Laboratory 3 hours.
Complete drawings (tracings and prints), applied design, shop process and fabrication.
- 103abc. Advanced Drafting** (3) (3) (3)
(a) Prerequisite. Drafting 102c.
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 103a.*
Lecture 2 hours.
Laboratory 3 hours.
Map drafting, electrical and electronic, aerospace, and technical illustration.
- (c) Prerequisite. Drafting 103b.*
Laboratory 9 hours.
Independent study in a concentrated area of drafting. Student's choice must involve current industrial practices.
- 104ab. Architectural Drafting** (4) (4)
(a) Prerequisite. Drafting 102a.
Lecture 3 hours.
Laboratory 3 hours.
Area planning, basic plans, locations, sections, foundations, framing, schedules and specifications.

(b) *Prerequisite. Drafting 104a.*

Lecture 3 hours.

Laboratory 3 hours.

Technical architectural plans, creative architectural drafting and design.

DRAMA

130. **Drama Appreciation** (3)
Lecture 3 hours.
A survey of selected dramatic literature, theatre methods, and relevant historical backgrounds.
- 133abc. **Theatre Background – Dramatic Literature** (3) (3) (3)
Lecture 3 hours.
A study in depth of the history and development of the theatre, its significant figures and selected plays.
135. **Theatre Expression** (2)
Lecture 1 hour.
Laboratory 3 hours.
Developmental experiences in movement and speech as they contribute to the actor's resources for theatre expression.
143. **Acting Laboratory** (3)
Lecture 2 hours.
Laboratory 3 hours.
Extensive practice in development of the actor's resources: concentration, imagination, and use of objectives as applied to character creation in selected scenes and one act plays.
155. **Survey of Technical Theatre** (3)
Lecture 2 hours.
Laboratory 3 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.
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.
159. **Simplified Production Techniques** (3-5)
Laboratory 9 to 15 hours.
Basic principles of production for recreational and school dramatic activities; scene design, stagecraft, properties, costuming, lighting, sound. Emphasis on using minimal equipment and budget.

Summer Drama Workshop

(Currently Held at Pinecrest)

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 experience 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

- 100ab. **Survey of Earth Science** (3) (3)
(a) *Lecture 2 hours.*
Laboratory 3 hours.
Survey of astronomy and geology. The basic principles of these sciences will be covered with regard to their effect on modern society.
Materials fee is required.
- (b) *Lecture 2 hours.*
Laboratory 3 hours.
Survey of oceanography and meteorology. The principles of these sciences will be covered with regard to their effect on modern society.
Materials fee is required.



- 110a. **Physical Geology** (4)
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.
Material fee is required.
- 110b. **Historical Geology** (4)
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.
Field trips may be required.
Materials fee is 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.
Materials fee is 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.

101abc. Principles of Economics**(3) (3) (3)***(a) Lecture 3 hours.*

Introduction to the U.S. economy. Capitalism and socialism. Emphasis on macro-economic principles. National income and employment analysis; economic fluctuations; monetary and fiscal policy.

(b) Lecture 3 hours.

Topics in economics. An examination of topics of current interest in economic policy and thought such as international economics and imperialism; pollution and environmental economics; developing countries; land use; poverty problems.

(c) Lecture 3 hours.

Micro-economic analysis. The firm; analysis of costs; theory of production; pricing factor inputs including wages, rent, and interest.

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.

101abc. Reading and Composition**(3) (3) (3)***(a) Prerequisite. Qualifying score on the English diagnostic examination.**Lecture 3 hours.*

Development of skills in writing and reading expository prose.

*(b) Prerequisite. English 101a.
Lecture 3 hours.*

Continuation of the writing and reading skills presented in English 101a with concentration on the research paper and an introduction to literary analysis.

*(c) Prerequisite. English 101b.
Lecture 3 hours.*

Concentration on the continued development of the skills necessary in literary analysis and critical writing. Reading material chosen from prose fiction, verse, and drama.

117ab. Literature of the United States**(5) (5)***(a) Prerequisite. English 51ab or English 101ab.
Lecture 5 hours.*

A study of the literature of the United States from the beginning of English colonization to the Civil War and Reconstruction. Reading, analysis, and discussion of the works of the major American writers in all genres, with special emphasis on the formation of American ideas and ideals.

*(b) Prerequisite. English 51ab or English 101ab.
Lecture 5 hours.*

A study of the literature of the United States from the Civil War to the present. Reading, analysis, and discussion of the works of the major American writers in all genres, with special emphasis on the formation of American ideas and ideals.

146ab. Survey of English Literature**(5) (5)***(a) Prerequisite. English 51ab or English 101ab.
Lecture 5 hours.*

English literature from the Anglo-Saxons to the 19th Century.

*(b) Prerequisite. English 51ab or English 101ab.
Lecture 5 hours.*

English literature from the 19th Century to contemporary literary works.

149. California Literature**(5)***Prerequisite. English 51ab or English 101ab.
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**1. Introduction to 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.

2ab. Fundamentals of Fire Prevention**(3) (3)***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.

- 3ab. Fire Fighting Strategy and Tactics** (3) (3)
Prerequisite. Fire Science 1.
Lecture 3 hours.
 Fire chemistry; equipment and manpower; fire fighting tactics and strategy; methods of attack; pre-planning fire problems.
- 4ab. Hazardous Materials** (3) (3)
Prerequisite. Fire Science 1.
Lecture 3 hours.
 Flammable liquids, water reactive chemicals, oxidizers, acids, flammable solids, and flammable gases. Flammable metals, plastics, explosives, fuels, radiation hazards, and insecticides.
- 5. Fire Apparatus and Equipment** (3)
Prerequisite. Fire Science 1.
Lecture 2 hours.
Laboratory 3 hours.
 Driving laws and techniques. Construction and operation of pumping engines and tank trucks, and trailers.
- 7. Heavy Equipment in Fire Control** (3)
Lecture 3 hours.
 Understanding theory of how heavy equipment is used by a coordinated fire control team in fighting range fires.
- 8. Fire Protection Equipment and Systems** (3)
Prerequisite. Fire Science 1.
Lecture 3 hours.
 Portable fire extinguishing equipment, sprinkler systems, protection systems for special hazards, fire alarm and detection systems.
- 9. Related Codes and Ordinances** (3)
Prerequisite. Fire Science 1.
Lecture 3 hours.
 Familiarization with national, state, and local laws and ordinances which influence the field of fire prevention.
- 10. Fire Company Organization and Procedures** (3)
Lecture 3 hours.
 Duties and responsibilities of personnel, personnel administration, communications, functions of equipment, maintenance, training, and records.

- 11. 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.

FOREIGN LANGUAGE

French

- 101abc. Elementary French: Fundamentals of Spoken and Written French** (5) (5) (5)
Prerequisite. 101a – None.
101b – 101a or one year High School French.
101c – 101b or two years of High School French.
Lecture 4 hours.
Laboratory 3 hours.
 Memorized dialogues, oral and written drills, conversation exercises and readings.

Spanish

- 101abc. Elementary Spanish: Fundamentals of Spoken and Written Spanish** (5) (5) (5)
Prerequisite. 101a – None.
101b – 101a or one year High School Spanish.
101c – 101b or two years High School Spanish.
Lecture 4 hours.
Laboratory 3 hours.
 Vocabulary, idioms, and patterns based on dialogues of Spanish-American way of life.

FORESTRY

- 100. 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.
Materials fee is required.

- 101. 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.*
Materials fee is required.

- 102. Dendrology** (4)
Prerequisite. Biology 120.
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.*
Materials fee is 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.*
Materials fee is 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, engineer's transit.
- Field trips may be required.*
Materials fee is 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.*
Materials fee is required.

- 13. Forest Inventory** (5)
Prerequisite. Forestry Technology 11.
Lecture 3 hours.
Laboratory 6 hours.
- Forest inventory techniques emphasizing applied timber cruising, scaling, and marking. Field tabulation and computation techniques of timber inventory. Training experience in forest inventory utilizing private and governmental forest tracts.
- Field trips may be required.*
Materials fee is required.

HEALTH EDUCATION

- 101. Health and Safety Education** (3)
Lecture 3 hours.
- Physical, mental, and social well-being of the individual; prevention and control of hazardous environmental factors; personal and community health; body systems and disorders; narcotics, tobacco and alcohol; fire prevention and public safety.
- Fulfills state requirement for graduation.*
- 110. First Aid** (2)
Lecture 2 hours.
- Immediate and temporary care of the victim of an accident or sudden illness; accident prevention.

HEALTH OCCUPATIONS

- 1abcd. Vocational Nursing** (21 (18) (18) (18))
- The Vocational Nursing program is accredited by the California Board of Vocational Nurse and Psychiatric Technician Examiners. Students who successfully complete the program are eligible to take a state examination leading to licensure as a vocational nurse.
- (a) *Lecture 12½ hours.*
Laboratory 25 hours.
- (b) *Lecture 9 hours.*
Laboratory 25 hours.
- (c) *Lecture 9 hours.*
Laboratory 25 hours.

- (d) *Lecture 9 hours.*
Laboratory 25 hours.

Orientation to vocational nursing; health of individual, family and community; anatomy and physiology; nutrition in health and disease; cause and prevention of disease; reaction to disease; care of patients with specific medical-surgical conditions; rehabilitation; ethics and legal responsibilities; pregnancy; caring for mothers and infants; growth and development; the family unit; work organization.

Field trips may be required.

2ab. 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. Students spend 3 hours in class and 3 hours in a hospital situation.

- (b) *Prerequisite. Health Occupations 2a.*
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.

5. 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.

1a. Introduction to Heavy Equipment

(2)

Lecture 2 hours.

Use of heavy equipment in the construction industry; safety training and accident prevention; plan reading and grade setting.

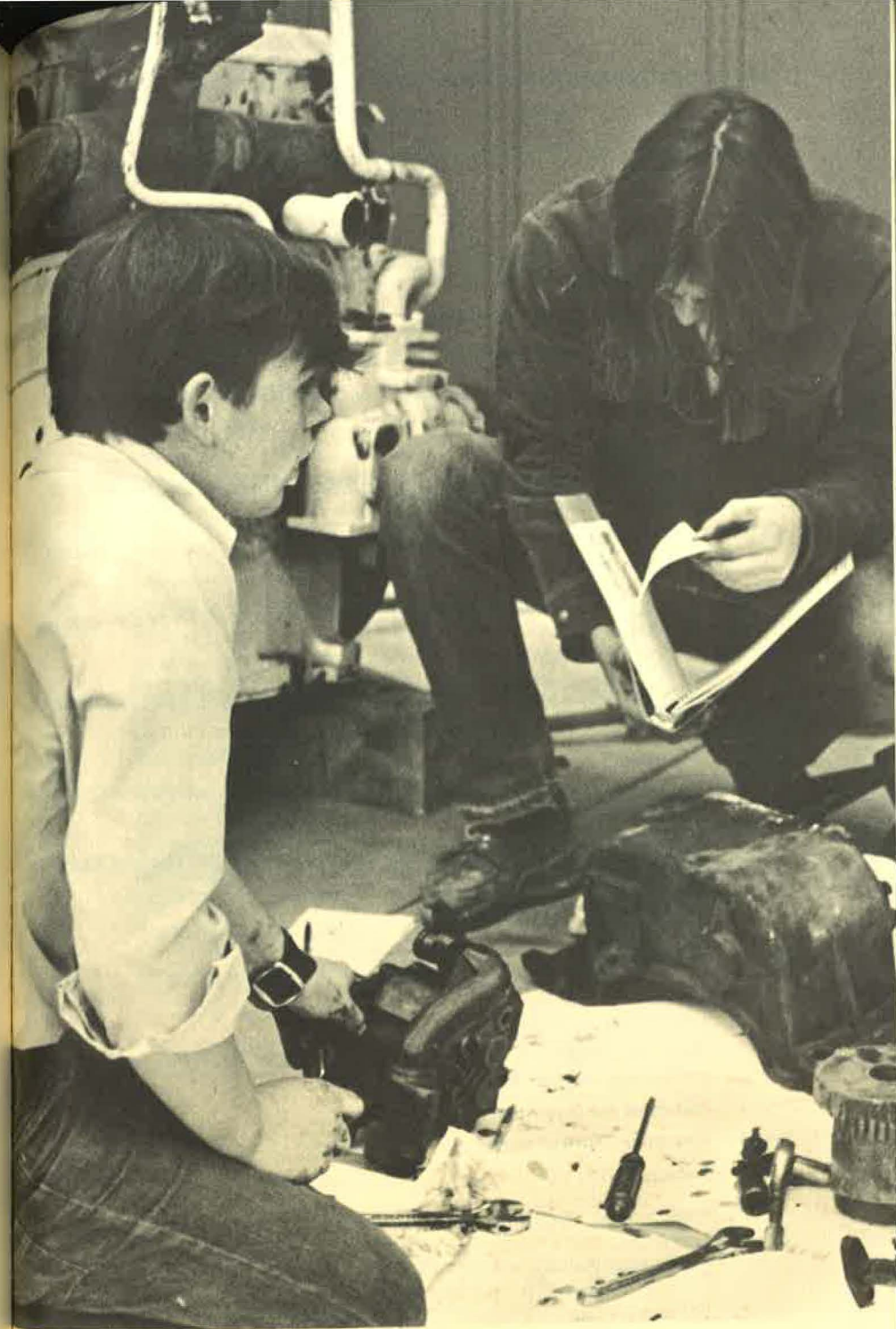
Field trips required.

1b. Introduction to Heavy Equipment Apprenticeship

(1)

Lecture 1 hour by arrangement.

Historical and legal background, administration of apprenticeship systems, the operating engineer apprenticeship. Federal laws that provide worker security, State laws that provide worker security.



- 2ab. Internal Combustion Engines - Diesel** (2) (2)
 (a) *Lecture 2 hours.*
 (b) *Prerequisite. Previous or concurrent enrollment in 2a or consent of instructor.*
Laboratory 6 hours.
 Principles of construction, and operation of diesel engines. Practical experience in the dismantling, assembly, operation and maintenance of diesel engines.
- 3ab. Automatic Control Systems** (2) (2)
 (a) *Lecture 2 hours.*
 (b) *Prerequisite. Previous or concurrent enrollment in 3a or consent of instructor.*
Laboratory 6 hours.
 Repair and maintenance of heavy equipment control systems that are operated by physical controls.
- 4ab. Special Systems** (2) (2)
 (a) *Lecture 2 hours.*
 (b) *Prerequisite. Previous or concurrent enrollment in 4a or consent of instructor.*
Laboratory 6 hours.
 Instruction in hydraulics, rigging, pneumatics, and basic electrical systems.
- 5. Gas Welding** (2)
Lecture 1 hour.
Laboratory 3 hours.
 Basic gas welding as it applies to the shop and field repair of heavy equipment components.
Materials fee is required.
- 6. Arc Welding** (2)
Lecture 1 hour.
Laboratory 3 hours.
 Basic arc welding as it applies to the shop and field repair of heavy equipment components.
Materials fee is required.
- 7abcd. Electrical Control Systems** (2) (2) (2) (2)
 (a) *Lecture 2 hours.*
 (b) *Prerequisite. Previous or concurrent enrollment in 7a or consent of instructor.*
Laboratory 6 hours.
 (c) *Lecture 2 hours.*

- (d) *Prerequisite. Previous or concurrent enrollment in 7c or consent of instructor.*
Laboratory 6 hours.
 Advanced study of electricity, magnetism, batteries, generators, motors and circuits.
- 8ab. Heavy Duty Equipment Repair** (3) (3)
 (a) *Lecture 3 hours.*
 Repair of bearings, clutches, fluid drives, transmissions and brakes.
 (b) *Lecture 3 hours.*
 Repair of tracks, wheels, steering, pumps, and compressors.
- 9. 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.
- 10ab. Advanced Maintenance Laboratory** (2) (2)
Laboratory 6 hours.
(Independent Study and Guided Practice.)
 Special repair projects as may be brought into the shop are assigned to advanced students to carry through to completion. Students will be graded on speed and accuracy plus work habits. The intent of the experience is to allow each student some independence for varieties of repairs and to hold him accountable for satisfactory completion of his repair work.
- 11. 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 31).
- 12. Heavy Equipment Attachments** (2)
Lecture 2 hours.
 Major attachments for dozers, tractors, and cranes.

HISTORY

- 104abc. History of Civilization** (4) (4) (4)
 (a) *Lecture 4 hours.*
 Rise and decline of civilizations in the ancient world 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 the major civilizations of the world from 500 to 1700 A.D. Rise of medieval Europe, the Byzantine Empire, and the Moslem world; 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 in the 18th and 19th Centuries, their struggle for world power in the 20th Century, and the impact of western civilization on the non-western world.

Fulfills state requirement for graduation.

111. Introduction to Asian History (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. Introduction to the History of China (4)

Lecture 4 hours.

Survey of the development of China from its earliest civilization to its major place in the contemporary world.

117ab. History of the United States (5) (5)

(a) *Lecture 5 hours.*

Historical development of the United States from the beginning of English colonization to the Civil War and Reconstruction; an analysis and interpretation of political, economic, and social institutions and ideas.

Fulfills state requirement for graduation.

(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.

Fulfills state requirement for graduation.

121ab. History of 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.

(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. Introduction to 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.

HUMANITIES

102ab. Survey of Social Values Through Literature (3) (3)

Lecture 3 hours.

Exploration of social values through reading and discussion of selected great books of Western Civilization.

103. Psychological Insights into The World of Literature (3)

Lecture 3 hours.

Psychological insights through reading and discussion of selected great books of Western civilization.

110. Current Religious Movements (3)

Lecture 3 hours.

Exploration of current religious moods and movements, as they relate to the student world. Religious climate of the 1970s; the Jesus Movements, its offshoots, music, beliefs and personalities; Eastern and Mystery religions; Scientology; the occult, psychic phenomena and Satanism; tensions in the traditional churches; the ecumenical movement; the changing Catholic Church; Jewish consciousness; church-state issues; moral and ethical issues and the church; religion and the media; worship, contemplation, and changing patterns within local churches and their leadership.

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, slander laws, journalism careers.

Field trips may be required.

- 107. Newspaper Production (1-3)**
Prerequisite: Previous or concurrent enrollment in Journalism 101a, b or c.
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.

MATHEMATICS

- 30. Basic Mathematics (2)**
Lecture 1 hour.
Laboratory 3 hours.
 A basic course in mathematics covering the fundamentals of informal geometry. The course is designed to strengthen concepts and to improve skills of mathematics for the vocational and technical fields.
- 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. 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.

- 51. Business Mathematics (4)**
Lecture 4 hours.
 Mathematical problems of buying, selling, interest, discounts, insurance, commissions, payrolls, depreciation, and taxes.
- 101. Intermediate Algebra (5)**
Prerequisite. Math 32 or one year high school algebra.
Lecture 5 hours.
 Extension of elementary algebra; includes complex numbers, logarithms, binomial theorem, progressions, and probability.
- 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 (2)**
Prerequisite. Math 101 or second year high school algebra.
Lecture 2 hours.
 Statistical concepts of probability, analysis and significance of measurements, measures of central tendency, correlation, variation, distribution, and reliability and validity of tests.
- 105.1 General Statistics (1)**
Prerequisite. Previous or concurrent enrollment in Math 105.
Laboratory 3 hours.
 Emphasis on statistical applications.
- 105.2 Biological Statistics (1)**
Prerequisites. Previous or concurrent enrollment in Math 105.
Laboratory 3 hours.
 Emphasis on statistical applications in biological science.
- 105.3 Psychology – Educational Statistics (1)**
Prerequisite. Previous or concurrent enrollment in Math 105.
Laboratory 3 hours.
 Emphasis on statistical applications in education and psychology.

105.4 Economics — Business Statistics

(1)

Prerequisite. Previous or concurrent enrollment in Math 105. Laboratory 3 hours.

Emphasis on statistical applications in economics and business.

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 Mathematics 102. Mathematics 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. Mathematics 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. Mathematics 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 derivatives, gradient maxima and minima, line integrals, double and triple integral, moments of inertia and center of mass, surface area and volume.

(e) *Prerequisite. Mathematics 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.

MUSIC

100. Music Fundamentals

(3)

Lecture 3 hours.

Introduction to traditional musical notation, key signatures, scales, intervals and chords, sight singing and aural perception. May be taken concurrently with Music 120a.

102. Introduction to Music

(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.

110abc. Survey of Music History

(4) (4) (4)

(a) *Lecture 4 hours.*

Ancient through classical periods.

(b) *Lecture 4 hours.*

Romantic period.

(c) *Lecture 4 hours.*

Impressionistic and contemporary periods.

History and literature of music in western civilization.

Field trips may be required.

112. Survey of Jazz and Popular Music

(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 I

(3) (3) (3)

(a) *Lecture 3 hours.*

Concepts of Music Theory.

(b) *Prerequisite. Music 120a.*

Lecture 3 hours.

Beginning diatonic harmonic and melodic functions.

(c) *Prerequisite. Music 120b.*

Lecture 3 hours.

Expanded diatonic harmonic and melodic functions. Abstract and concrete concepts of music theory with application to the Diatonic System of Harmony.

- 122abc. Music Theory II** (3) (3) (3)
- (a) *Prerequisite. Music 120abc.*
Lecture 3 hours.
Beginning Chromatic Harmonic and Melodic Functions.
- (b) *Prerequisite. Music 122a.*
Lecture 3 hours.
Expanded Chromatic Harmonic and Melodic Functions.
- (c) *Prerequisite. Music 122b.*
Lecture 3 hours.
Atonality and Synthetic Systems.

Abstract and concrete concepts of music theory with application to the Chromatic System of Harmony. Introduction to contemporary techniques in music theory and the use of atonality and synthetic structures.
- 126. Composition and Arranging** (2)
Prerequisite. Music 100.
Lecture 2 hours.
Composing and arranging in various musical styles. Study and analysis of different methods of composition and arranging of music in relation to project chosen by student. May be repeated for credit.
- 130. Class Guitar** (2)
Prerequisite. Music 100.
Lecture 2 hours.
Beginning group instruction in methods and techniques of playing the guitar. Introduction to the guitar's versatility and performance techniques.
- 160. Sierra Singers** (1)
Laboratory 3 hours.
Study and performance of mixed choral works of various periods and styles. May be repeated for credit.
- 164. Mountainaires** (1)
Prerequisite. Concurrent enrollment in Music 160 and consent of instructor; Speech 106 recommended.
Laboratory 3 hours.
Performance of specialized choral styles from madrigal to modern in an ensemble of limited size. Choral experience, a pleasing voice, and some music reading ability required. May be repeated for credit.

- 174. Stage Band** (1)
Prerequisite. Consent of Instructor.
Laboratory 3 hours.
Reading, preparation and performance of music arranged for stage band in an ensemble of limited size. May be repeated for credit.
- 176. Orchestra** (1)
Prerequisite. Consent of Instructor.
Study and performance of orchestral literature of various styles and media as chosen by the students in the ensemble. May be repeated for credit.
- 180. Ensemble** (1)
Prerequisite. Consent of Instructor.
Laboratory 3 hours.
Preparation and performance of various musical styles and media as chosen by the students in the ensemble. May be repeated for credit.

NATURAL RESOURCES

- 100. Conservation of Natural Resources** (4)
Lecture 4 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.
Materials fee is required.

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 fishes.
Field trips may be required.
Materials fee is 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. Includes presentations by local resource personnel involved in range and watershed management. Field identification of important forage and browse species.
Field trips may be required.
Materials fee is required.
13. **Interpretive Guided Tours** (2)
Lecture 1 hour.
Laboratory 3 hours.
Techniques of implementing natural resource interpretation and protection on areas involving multiple resource management by conducting interpretive guided tours. Methods of meeting and serving diverse public groups in their social, cultural, and recreational use of these lands. Laboratories require six weekends during quarter.
Field trips may be required.
Materials fee is 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.
Materials fee is 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.

PHILOSOPHY

- 101abc. **Introduction to Philosophy** (4) (4) (4)
(a) *Lecture 4 hours.*
Survey of the problems of philosophy with emphasis on epistemology, metaphysics and existentialism.
(b) *Lecture 4 hours.*
Problems in ethics and philosophy of religion (western and oriental).
(c) *Prerequisite. Philosophy 101a.*
Lecture 4 hours.
Problems of individual and social values in political philosophy and aesthetics.
105. **Perspectives in Philosophy** (4)
Prerequisite. Philosophy 101a.
Lecture 4 hours.
Major viewpoints or schools of philosophy studied in historical sequence: classical realism, naturalism, idealism, positivism, linguistic analysis, and existentialism.
110. **Introduction to Logic** (4)
Lecture 4 hours.
Basic principles of classical and modern logic: deductive reasoning, including syllogisms, fallacies, and elementary symbolic logic; inductive reasoning and the scientific method.

PHOTOGRAPHY

10. **Basic Photography** (3)
Lecture 2 hours.
Laboratory 3 hours.
Instruction and practice relating to the history, development, and techniques of still photography.
20. **Intermediate Photography** (3)
Lecture 3 hours.
Theory of advanced exposure, development, printing and finishing. Creative use of light, filters and composition.

PHYSICAL EDUCATION

All Physical Education courses may be available for men, women, or coeducational sections. Check class schedules for proper section.

- 100. Archery (0.7)**
Laboratory 2 hours.
 Instruction and practice in basic archery skills and emphasis on target shooting.
- 103. Badminton (0.7)**
Laboratory 2 hours.
 Instruction in basic skills, rules and strategy of badminton.
- 106. Basketball (0.7)**
Laboratory 2 hours.
 Instruction and practice in basic fundamentals of basketball.
- 109. Body Mechanics (0.7)**
Laboratory 2 hours.
 Exercise for body balance, agility, coordination, confidence, poise and weight control.
- 112. Bowling (0.7)**
Laboratory 2 hours.
 Instruction and practice in basic fundamentals of bowling.
Materials fee is required.
- 115. Fencing (0.7)**
Laboratory 2 hours.
 Introduction to foil fencing. Instruction in basic skills and rules of the sport.
- 116. Gymnastics (0.7)**
Laboratory 2 hours.
 Instruction and practice in the basic fundamentals of gymnastics.
- 118abc. Golf (1) (1) (1)**
 Instruction and practice in fundamentals of golf.
Materials fee is required.
- (a) *Beginning*
Laboratory 3 hours.
May not be repeated.

- (b) *Intermediate.*
Prerequisite. Physical Education 118a.
Laboratory 3 hours.
May not be repeated.

- (c) *Advanced*
Prerequisite. Physical Education 118b.
Laboratory 3 hours.
May not be repeated.

- 120. Handball (0.7)**
Laboratory 2 hours.
 Instruction and practice in the fundamentals of handball with an introduction to paddleball.
Materials fee is required.
- 121. Jogging and Conditioning (0.7)**
Laboratory 2 hours.
 Instruction in progressive exercises: hiking, running and jogging techniques as training for physical fitness.
- 122. Mountaineering (0.7)**
Laboratory 2 hours.
 Instruction and practical experience in basic climbing skills, hiking, backpacking, and light camping.
Field trips may be required.
Insurance required.
May not be repeated.
- 123. Trampoline (0.7)**
Laboratory 2 hours.
 Instruction and practice in the elementary fundamentals of tumbling, graduating to the use of the trampoline and the mini-tramp.
- 124. Skiing (1)**
Laboratory 3 hours.
 Instruction in basic fundamentals of snow skiing.
Materials fee and insurance required.
May not be repeated.
- 126ab. Intercollegiate Skiing (1)**
 (a) *Laboratory 3 hours.*
 Instruction, practice, and conditioning for intercollegiate competition in the Alpine and Nordic events of snow skiing.
Materials fee and insurance required.



- (b) *Prerequisite. E Classification Ski Ability.* (2)
126a or consent of Instructor.
Must meet eligibility requirements as prescribed in the California Community College Athletic Code.

Laboratory 6 hours.

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

Materials fee and insurance required.

127. **Softball** (0.7)

Laboratory 2 hours.

Fundamentals and rules of softball.

128. **Soccer** (0.7)

Laboratory 2 hours.

Instruction and progressive practice in the fundamental skills of soccer.

130. **Swimming** (0.7)

Laboratory 2 hours.

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

133. **Tennis** (0.7)

Laboratory 2 hours.

Instruction and practice in fundamentals of eastern grip tennis.

Materials fee is required.

136. **Touch Football** (0.7)

Laboratory 2 hours.

Instruction in basic skills and fundamentals of touch football.

137. **Tumbling** (0.7)

Laboratory 2 hours.

Instruction in basic skills and fundamentals of tumbling.

139. **Volleyball** (0.7)

Laboratory 2 hours.

Instruction and practice in basic fundamentals of volleyball.

140. **Water Skiing** (1)

Prerequisite. Intermediate swimming ability.

Laboratory 3 hours.

Instruction and progressive practice in the fundamental skills of water skiing.

Materials fee and insurance required.

May not be repeated.

142. **Weight Training** (1)
Laboratory 3 hours.
 Instruction in use of weights and body building equipment with emphasis upon individual program development
143. **Wrestling** (0.7)
Laboratory 2 hours.
 Instruction in basic skills and fundamentals of wrestling.
144. **Roller Skating** (0.7)
Laboratory 2 hours.
 Instruction and practice in the fundamentals of roller skating.
Materials fee is required.

PHYSICS

- 115abc. **Technical Physics** (3) (3) (3)
 (a) *Prerequisite. Math 101 or second year high school algebra. Math 102 recommended.*
Lecture 2 hours.
Laboratory 3 hours.
- (b) *Prerequisite. Physics 115a.*
Lecture 2 hours.
Laboratory 3 hours.
- (c) *Prerequisite. Physics 115b.*
Lecture 2 hours.
Laboratory 3 hours.
 Principles of mechanics, heat, sound, light, electricity, magnetism, and modern physics application to technology.
Materials fee is required.

POLITICAL SCIENCE

101. **Constitutional Government** (1)
Laboratory 3 hours by arrangement.
 United State constitution and national government; California state and local government.
Fulfills state requirement for graduation.
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. **Practicum in the Democratic Process** (2-3) (2-3) (2-3)
Prerequisite. Consent of Instructor.
Lecture 1 hour.
Laboratory 3 to 6 hours.

Seeks new insights into the area where democracy and administration converge or overlap and correlate classroom knowledge by relating it to democracy in the administrative state.

Students enrolled for 2 units will be required to become familiar with selected state and county political issues and report to the class membership. Attendance at a minimum number of meetings of county governing bodies is required.

Students enrolled in this course for 3 units will take positions as interns on a part-time basis at levels of local and state government such as the Planning Commission and Board of Supervisors.

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 both the Western and non-Western world; limitations of unilinear and ethnocentric approaches to cross-cultural comparisons.

PSYCHOLOGY

41. **Psychology of Supervision** (3)
Lecture 3 hours.
 Understanding of psychological principles to business and industry with understanding of employees situation.
101. **General Psychology** (5)
Lecture 5 hours.
 Behavior, motivation, perception, emotion, intelligence, learning, and thinking; concepts of human development.

102. **Experimental and Biological Psychology** (5)
Prerequisite. Psychology 101.
Lecture 4 hours.
Laboratory 3 hours.
 Psychological research; neural, mechanical, and chemical integrating systems of behavior; experimental design, collection of data, and reporting observations.
Field trips are required.
103. **Social Psychology** (5)
Prerequisite. Psychology 101.
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.
130. **Personal and Social Adjustment** (5)
Prerequisite. Psychology 101.
Lecture 5 hours.
 Personality development; family relationships; social adjustment; factors modifying self-evaluation.
141. **Industrial Psychology** (5)
Prerequisite. Psychology 101 and Psychology 103.
Lecture 5 hours.
 Application of psychological principles to business and industry.
- 142abc. **Psychology of Leadership** (5) (5) (5)
Lecture 4 hours.
Laboratory 3 hours.
 Experience in real community and college life situations, exploration of the psychology of leadership, including principles, problems, and skills of leadership-followership, group processes, human behavior and interaction; parliamentary procedure, democratic government, and college administration; and to practice and develop competencies in working with groups, problem-solving, project-planning, critical thinking, decision-making and interpersonal interaction.
143. **Introduction to Group Dynamics** (4)
Prerequisite. Psychology 101.
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)
Lecture 5 hours.
 Growth and development of the child from prenatal life through early childhood. Study of the roots of behavior common to all men and the ways in which human beings come to differ from one another.
146. **Child - Family - Community Interrelationships** (5)
Prerequisite. Psychology 145 or consent of instructor.
Lecture 5 hours.
 Understanding the child and factors influencing his behavior, growth and development. The influence of the family, peer groups, the school, and American culture on the development of the young child.
- 147ab. **Field Study Laboratory** (6) (6)
Prerequisite. Psychology 145 and 146, or concurrent enrollment in Psychology 146.
Lecture 1 hour.
Laboratory 15 hours.
 Active participation with a group of young children, preschool, kindergarten, first, second and third grade, 3 weeks each. Laboratory 3 hours per unit to a maximum of 5 units per course.
Field trips may be required.
160. **Personality** (5)
Prerequisite. Psychology 101.
Lecture 5 hours.
 The physiological, behavioral, and cultural role of perception, learning and motivation in personality. These topics will be discussed in the context of current research and major theories.

RESORT MANAGEMENT

1. **Introduction to the Hospitality Industry** (3)
Lecture 3 hours.
 An introduction to the hotel-motel, food service, travel agency, and recreation businesses.

2. **Hotel-Motel Management** (3)
Lecture 3 hours.
Organization and operation of public lodging facilities.
3. **Food Service Management** (3)
Lecture 3 hours.
Menu planning, food purchasing, nutrition, sanitation, and food storage.
4. **Hotel-Motel Housekeeping** (3)
Lecture 3 hours.
The broad scope of the housekeeper position stressing employee training, record-keeping, executive responsibilities, and use of equipment and materials.
5. **Maintenance and Equipment** (5)
Lecture 5 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.
6. **Merchandising the Hospitality Industry** (3)
Lecture 3 hours.
Sales promotion and methods used to obtain public recognition and good will.
10. **Law 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.

SKILLS DEVELOPMENT

21. **Developmental Reading** (2)
Lecture 1 hour.
Laboratory 3 hours.
A course designed to improve the reading and study skills necessary for college level work. Emphasis is placed on raising vocabulary levels, improving comprehension skills, improving reading speeds, and developing college level study skills and listening skills.
May be repeated once for credit.

60. **Mathematics Skills Development** (1)

Laboratory 3 hours.

This course is designed to meet the specific needs of students in the area of mathematics skills and will employ self-instructional materials as the primary teaching technique.

The specific skills units available to the student electing to take Mathematics Skills Development include:

1. The fundamental operations with integers and rational numbers.
2. Operation improvement skills in ratio, proportion, and per cent.
3. Operation improvement skills in powers, roots, and radical expressions.
4. The skills and techniques of algebra.

70. **Writing Skills Development** (1)

Laboratory 3 hours.

This course is designed to meet the specific needs of students in the area of written communication skills and will employ self-instructional materials as the primary teaching technique.

The specific skills units available to the student electing to take Writing Skills Development include:

1. Spelling
2. Punctuation
3. Diction and usage
4. Basic sentence structure
5. Advanced sentence structure
6. Basic paragraph structure
7. Advanced paragraph structure
8. Outlining
9. Organization and development of the thesis-oriented essay
10. Writing the term paper

80. **Reading Skills Development** (1)

Laboratory 3 hours.

This course is designed to meet the specific needs of students in the area of reading skills and will employ self-instructional materials as the primary teaching technique.

The specific skills units available to the student electing to take Reading Skills Development include:

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

90. Study Skills Development (1)

Laboratory 3 hours.

This course is designed to meet the specific needs of students in the area of study skills and will employ self-instructional materials as the primary teaching technique.

The specific skills units available to the student electing to take Study Skills Development 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
8. Time management and scheduling

SOCIOLOGY

101ab. Introduction to Sociology (5) (5)

(a) Lecture 5 hours.

History and analysis of major theoretical concepts of sociology; man and his physical and cultural environment; society and personality with emphasis on the socialization process.

(b) Lecture 5 hours.

Population problems and geographic distribution; organization of people in groups such as class and caste, racial and ethnic, urban and rural; study of social institutions such as education, family, religion, and law.

110. Sociology of Social Problems (5)

Lecture 5 hours.

Analysis of contemporary social problems in America; socio-cultural factors; theories, perspectives, and trends on crime and delinquency, race, and ethnic relations, poverty and family disorganization.

111. Sociology of Crime and Delinquency (5)

Lecture 5 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. Sociology of the Family (5)

Lecture 5 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.

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 (5)

Lecture 5 hours.

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

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.

WORK EXPERIENCE

97. General Work Experience (1-4)

Prerequisite. Consent of Instructor.

The supervised employment of students with the intent of assisting them to acquire desirable work habits and attitudes in real jobs. 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.

The extension of vocational learning experiences and opportunities for the student through employment in the occupation for which his college program has been designed. May be repeated for a maximum of 24 units.



A Guiding Principle . . .

This College shall be responsive to the needs and desires of the total community. Moreover, this responsibility will transcend the artificial boundaries of town, county, 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, he is required to obtain a signed release from the superintendent in 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.

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.

American history from English colonization to the present.

State, Local and Federal Government

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.

General Mathematics

Lecture 6 hours.

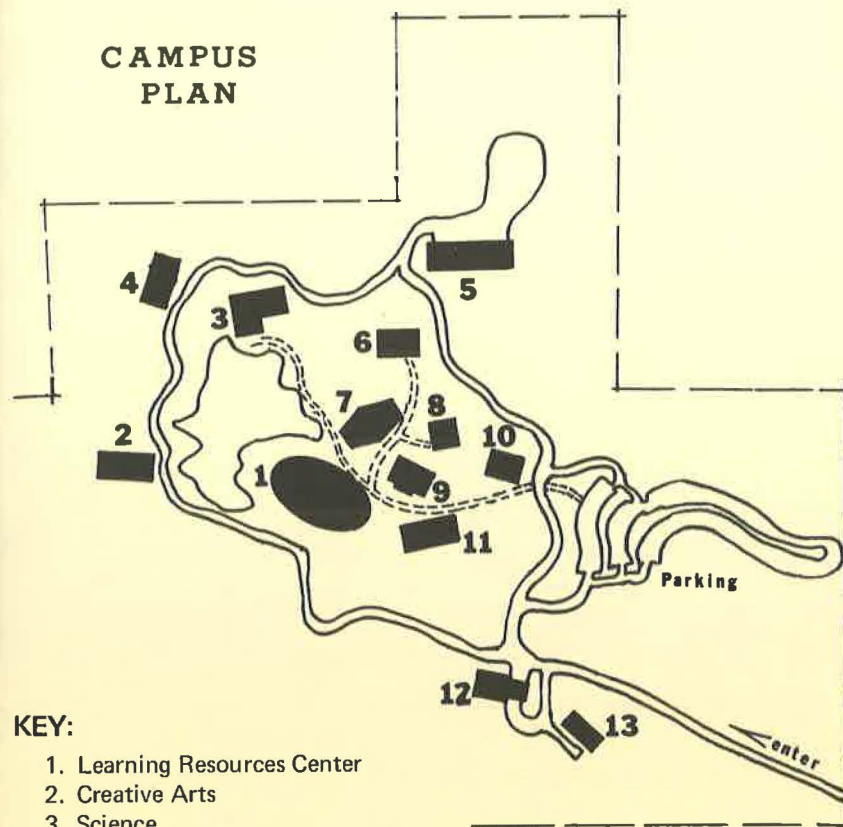
Refresher mathematics with emphasis on operation and application of real numbers; fractions, decimals, and percentages.

General Science

Lecture 6 hours.

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

CAMPUS PLAN



KEY:

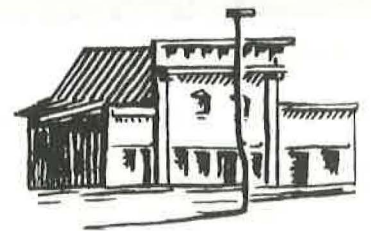
1. Learning Resources Center
2. Creative Arts
3. Science
4. Natural Resources Technology
5. Heavy Equipment Maintenance
6. Health Occupations
7. Forum
8. Seminar
9. Lecture
10. Physical Education
11. Business Education
12. Fire Science
13. Transportation



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 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 the 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 re-examination 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.

This 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 the 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.



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.

COLLEGE STAFF



FACULTY

- JOEL C. BARBER Art, Art History
 B.A., Willamette University
 M.A., University of Oregon
- PAUL K. BECKER *Dean of Student Services*
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 M.A., Stanford University
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 B.A., Wichita State University
 M.A., Claremont Graduate School
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 A.A., Graceland College
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INDEX

A

Absence 37
 Academic Probation. 36
 Academic Procedures 28
 Accounting 59
 Acceptance, Notice of 17
 Accreditation 115
 Activities, Student 13, 24
 Adding Courses 34
 Admission After
 Disqualification 18, 36
 Admission of High
 School Students 19
 Admission of
 International Students 8, 18
 Admissions 16, 17
 Advanced Placement 19
 Advertising 58
 Advisement Program 22
 Advisor, Student. 11
 Ancillary and Consultive
 Education Definition 114
 Anthropology. 51
 Apprentice Carpentry 52
 Archaeology 51
 Art 53-56
 Associate in Arts Degree,
 Requirements. 41
 Astronomy, General. 71
 Athletics, Inter-Collegiate 13
 Attendance, Class 35
 Attendance Permit 16
 Auditing Courses 29
 Aviation 56

B

Biology 57, 58
 Board of Trustees 4
 Bookkeeping 58
 Bookstore 9
 Bus Transportation 10, 24
 Business. 58
 Business Administration 59
 Office Occupations 60-62
 Real Estate 62, 63
 Supervisory Training 63
 Work Experience. 103

C

Calendar 2, 3
 California State Universities
 and Colleges 43
 California, University of 46
 Carpentry, Apprentice 52
 Challenging Courses. 32
 Change of Major 12
 Chemistry 63-64
 Classes, Schedule of. 17
 Classification, Student 34
 College Functions 113
 College High School Courses 109
 College High School Program. 105
 College Staff 117
 Community Services 115
 Conduct 37
 Conservation 89
 Continuing Education
 Definition 115
 Correspondence Credit. 33, 34
 Counseling 10
 Course Number 50
 Course Offering Sequence. 50
 Credit By Examination. 32
 Credit-No Credit 32, 50
 Credit-No Credit Courses 50
 Credit, Previously Earned 33, 34
 Credit, Repeating Courses. 30
 Credit, Unit of 28
 Credit Value 50
 Crime Prevention. 65, 66
 Criminal Justice 65

D

Deans' List. 35
 Description of Courses 50
 Dismissal, Honorable 35
 Disqualification, Academic 36
 Disqualification,
 Admission After 18, 36
 Drafting 66-68
 Drama 68-69
 Dropping Courses 34

E

Earth Science 69-71
 Economics. 71, 86
 Eligibility 16
 Employment, Student 23
 English 72, 73
 Expenses 8, 9
 Examinations, Final. 35

F

Faculty 118
 Faculty Advisement Program. 22
 Final Examinations 35
 Fire Science 73-75
 First Aid 77
 Foreign Language 75
 Forestry 75, 76
 Forest Technology 76, 77
 Forgiveness of "F" Grades 31
 French 75

G

General College Requirements 41
 General Education
 Breadth Requirements 44, 45
 Geology. 71
 Grade Point Average 30, 35
 Grade Reports 35
 Grading Scale 29
 Grading System 28, 29
 Graduation Requirements,
 College 38, 41
 Grants, Student 10, 23
 Guiding Principles 112, 113

H

Health Education. 77
 Health Occupations 77, 78
 Health Services 23
 Heavy Equipment 78, 80, 81
 High School Program, College. 105
 High School Students,
 Admission 19
 History, College 111
 History 81-83
 Home Health Aids 78
 Honorable Dismissal. 38
 Housing, Student. 9
 Humanities. 83

I

Identification Cards 23
 Incoming Students 22
 Incomplete Grades 31
 Independent Study
 Courses 31
 Independent Study, Provisions 31
 Institutional Memberships 115
 Insurance, Accident 22
 Insurance, Student 22
 Inter-Collegiate Athletics 13
 Interdistrict Attendance Permits 16
 International Students,
 Admissions. 8, 18

J

Job Placement. 10
 Journalism 83, 84

L

Laboratory Fees 9
 Late Registration. 17
 Law, Commercial. 59
 Law Enforcement 66
 Leave of Absence. 37
 Literature, English 73
 Load, Course 34
 Loans, Student 10, 23

M

Major. 11, 42
 Major Requirements,
 Associate in Arts Degree 41
 Map, Campus 107
 Mathematics 84-86
 Mathematical Skills 101
 Military Credit. 33
 Music. 87-89

N

Natural Resources 89
 Natural Resources
 Technology. 90, 91
 Nonresident Fees 8
 Notice of Acceptance 17
 Notice of Intent to .
 Graduate 38, 41
 Numbering of Courses 50
 Nursing, Vocational 77

O

Occupational Education
 Definition 114
 Occupational and Education
 Planning Definition 115
 Office Occupations 60-62
 Orientation, Incoming Student. . 22

P

Permits, Interdistrict 16
 Philosophy 91
 Philosophy of the College 111
 Photography 91
 Physical Education 92-96
 Physical Education
 Requirement 38
 Physics 96
 Political Science 96, 97
 Prerequisites 12, 28, 50
 Probation, Academic 36
 Psychology 97-99

R

Reading, Developmental 100
 Reading Skills 101
 Real Estate 63, 66
 Registration 11
 Registration, Late 17
 Remedial Education
 Definition 114
 Repetition of Courses 30
 Requirements, Associate in
 Arts Degree. 41
 Requirements, State University
 and College Transfers 43
 Requirements, Univ. of
 California Transfer 46
 Residence Halls 9
 Residence Requirements,
 Admission 16
 Graduation 38
 Resort Management 99, 100

S

Schedule of Classes 17
 Scholarships, Loans and
 Grants 10, 23
 Scholarship Requirement,
 Associate in Arts Degree 41
 Scholarship Reports 35
 Scholarship, Satisfactory 35

Scholastic Honors. 35
 Selective Service 24
 Skills Development 100, 101
 Sociology 102
 Spanish 75
 Speech 103
 State Univ. and College
 Campuses 42
 Statistics 85, 86
 Stenography 61
 Student Activities 13, 24
 Student Advisor 22
 Student Association 12
 Student Load 34
 Student Services 21
 Study Skills 90
 Supervisory Training. 63

T

Testing Services 22
 Textbooks 9
 Transfer Credit 12, 46, 47
 Transfer Education Definition . 114
 Transfer, State Univ. and
 Colleges 12
 Transfer, Univ. of California . . . 12
 Transportation 10, 24
 Trustees, Board of 4
 Tuition, Out-of-State 8
 Typing 60, 61

U

Unit of Credit 28
 Unit Requirement, Associate in
 Arts Degree 41
 Units, Conversion of 28
 Univ. of California Campuses . . 46
 USAFI Credit 33

V

Veterans. 33, 38, 115
 Veterans Affairs 24
 Vocational Nursing 77

W

Withdrawal from College 38
 Work Experience 103
 Work Study Funds 23
 Writing Skills 101

Y

Yosemite Junior College District . 4

