



COLLEGE OF THE SEQUOIAS

VISALIA, CALIFORNIA

CATALOG
1966 - 1967

College of the Sequoias

A PUBLIC JUNIOR COLLEGE

Catalog 1966 - 1967



COLLEGE OF THE SEQUOIAS JUNIOR COLLEGE DISTRICT

MOONEY BOULEVARD
VISALIA, CALIFORNIA

Published by the Board of Trustees

The College of the Sequoias is a member of the American Association of Junior Colleges, the California State Junior College Association, and the North Central California Junior College Region.

The college is officially accredited by the Western Association of Schools and Colleges, and the California State Department of Education.

The University of California and other colleges and universities of high rank give full credit for appropriate courses completed at College of the Sequoias.

Before you may be counseled and registered*, you must have on file in the Student Personnel Center:

1. An application for admission form.
2. Transcripts of all high school or previous college work.
3. A Student Health Form completed by your physician.
4. Scores from the college scholastic aptitude and placement tests.

***IMPORTANT:** Your \$10.00 Student Activity Fee must be paid prior to your counseling appointment. Incoming freshmen may pay their fees on the day they are counseled.

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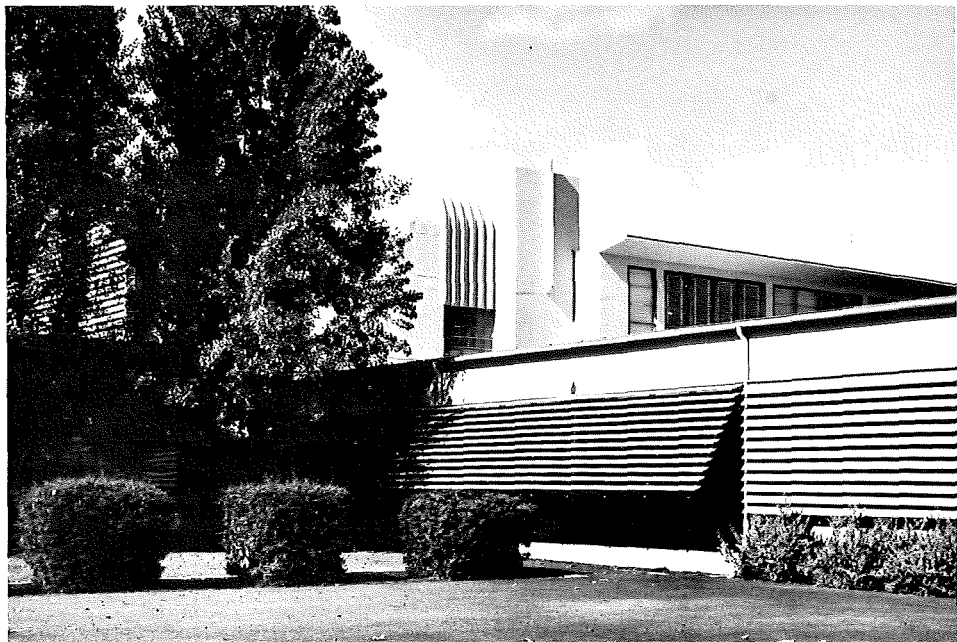
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Director of Vocational Placement and
Community Services

RICHARD C. JACOBSEN
Director of Research and Planning



CALENDAR 1966 - 1967

FIRST SEMESTER

September 6, 1966 - January 20, 1967

June 20	- - - - -	Summer Counseling for First Semester begins
July 16	- - - - -	Aptitude and Placement Tests
August 1-26	- - - - -	Evening College Registration
August 8	- - - - -	New Student Application, Medical Report, Transcript due
August 9	- - - - -	Aptitude and Placement Tests (Evening College)
August 13	- - - - -	Aptitude and Placement Tests
August 17	- - - - -	Aptitude and Placement Tests (Evening College)
August 29-September 1	- - - - -	Closing Dates of Evening College Registration
September 1	- - - - -	Last Day to Register for First Semester
September 5	- - - - -	General Faculty Meeting
September 6	- - - - -	Class Instruction Begins
		Confirmation of Registration
September 7	- - - - -	Confirmation of Registration
September 12-16	- - - - -	Orientation Week for All New Students
September 16	- - - - -	-Last Day to Add Courses
September 26-30	- - - - -	Orientation Week for All New Students
		First Census Week
October 14	- - - - -	Last Day to Drop Courses without Penalty
November 4	- - - - -	-Mid-Semester
November 10	- - - - -	Deficiency Notices Mailed
November 11	- - - - -	Veterans' Day
November 23	- - - - -	Last Day to Drop Courses without Failure
November 24-25	- - - - -	Thanksgiving Recess
December 5-9	- - - - -	Second Census Week
December 19-30	- - - - -	Christmas Vacation
January 16-20	- - - - -	Final Examinations
January 20	- - - - -	End of First Semester
January 23-27	- - - - -	Recess between Semesters



CALENDAR 1966 - 1967

SECOND SEMESTER

January 30, 1967 - June 9, 1967

January 2	- - - - -	New Student Application, Medical Report, Transcript due
January 3-20	- - - - -	Evening College Registration
January 14	- - - - -	Aptitude and Placement Tests
January 23-26	- - - - -	Closing Dates of Evening College Registration
January 30	- - - - -	Class Instruction Begins Confirmation of Registration
January 31	- - - - -	Confirmation of Registration
February 10	- - - - -	Last Day to Add Courses
February 13	- - - - -	Orientation Week for All New Students Third Census Week
March 3	- - - - -	Last Day to File for Associate in Arts Degree
March 10	- - - - -	Last Day to Drop Courses without Penalty
March 20-24	- - - - -	Easter Vacation
April 7	- - - - -	Mid-Semester
April 10-14	- - - - -	Fourth Census Week
April 14	- - - - -	Deficiency Notices Mailed
April 28	- - - - -	Last Day to Drop Courses without Failure
May 6	- - - - -	Aptitude and Placement Tests, Tulare County
May 13	- - - - -	Aptitude and Placement Tests, Tulare County
May 20	- - - - -	Aptitude and Placement Tests, Other Counties
May 30	- - - - -	Memorial Day
June 5-9	- - - - -	Final Examinations
June 9	- - - - -	End of Second Semester
June 11	- - - - -	Commencement

DIVISION HEADS

Division of Applied Arts and Sciences	BRUCE F. JENSEN
Division of Business	DOROTHY MYERS
Division of Fine Arts	GEORGE C. PAPPAS
Division of Industry and Technology	JOSEPH A. GUARISCO
Division of Language Arts and Communication	THOMAS MURRAY
Division of Physical Education, Health and Athletics	ROY D. TAYLOR
Division of Science, Mathematics and Engineering	ALTON E. BRYANT
Division of Social Sciences	HAROLD L. FISCHER

FACULTY

ANDERSON, VERNON A.	Sociology/Physical Education
A. B., M. A., Fresno State College	
ANGOVE, GERALD C.	Director, Vocational Placement and Community Services
A. B., M. A., Stanford University	
BALDOCK, ALVIN O.	Physical Education
B. S., M. S., University of Southern California	
BARBA, JOSEPH J.	English/Physical Education
B. S., M. S., Purdue University	
BEARDEN, ALIA	Physical Education
A. B., Whittier College. M. A., California State College at Long Beach	
BERG, LeROY	Librarian
A. B., B. A., Fresno State College	
BOCK, RUTH C.	Business
A. B., M. A., Fresno State College	
BRICKER, JOHN F.	History/Physical Education
A. B., Michigan State University. M. A., University of California	
BRYANT, ALTON E.	Biological Sciences
A. B., M. A., University of California	
BURNETT, MARYALYCE	Home Economics
B. S., M. S., Oregon State College	
CABRERA, ANTHONY J.	French
A. B., University of California	
CLEVELAND, WILLIAM R.	Physical Sciences
B. S., M. S., California Institute of Technology	
COTTRELL, RICHARD S.	Architecture/Engineering
A. B., M. A., Fresno State College	
CROOKSHANKS, IVAN C.	Superintendent/President
A. B., M. A., University of Redlands Ed.D., University of California	

DANIELSON, HELEN - - - - - Nursing
 B. S. N., University of Portland

DECKER, WILLIAM K. - - - - - English
 B. A., M. A., Colorado State College

DEETZ, LINCOLN - - - - - Architecture/Engineering
 B. S., River Falls State College

DISIBIO, CHRISTINE - - - - - Physical Education
 A. B., Fresno State College

EGGLESTON, STEPHEN W. - - - - - Dean of Evening College
 A. B., M. A., University of Southern California

ESSEX, WILFRID L. - - - - - Chemistry
 A. B., University of Southern California. M. A., Fresno State College

FERGUSON, ELIZABETH M. - - - - - Counseling
 B. A., Denison University. M. A., Ohio Wesleyan University

FISCHER, CURT - - - - - German
 A. B., M. A., Fresno State College

FISCHER, HAROLD L. - - - - - History
 A. B., University of Wisconsin. M. A., University of Southern California

FLAHERTY, MICHAEL W. - - - - - Business
 B. A., New Mexico Highlands University. M. A., Pepperdine College

FLY, JOHN - - - - - Building Trades
 A. A., College of the Sequoias; Vocational Class A Credential

FOTIAS, CHRIS A. - - - - - Spanish
 A. B., M. A., University of Michigan

FRIEDBERG, MARY NORA - - - - - Home Economics
 B. S., Oregon State College

FRITZ, IRVING - - - - - Music
 A. B., College of the Pacific

GEHMAN, ROBERT - - - - - Psychology
 B. S., Pennsylvania State University. M. A., Ohio State University

GILCREST, THOMAS - - - - - Physical Education
 A. B., Fresno State College. M. A., Stanford University

GRESSINGER, ERWIN - - - - - Electronics
 Special Secondary, University of California

GRUMBLING, HENRY M. - - - - - Audio-Visual Aids
 A. B., M. A., Chico State College

GUARISCO, JOSEPH A. - - - - - Coordinator, Industry and Technology
 B. V. E., Fresno State College

HALL, GERRY - - - - - Business
 A. B., M. A., Fresno State College

HALL, LINCOLN H. - - - - - Dean of Student Personnel
 B. S., University of California at Los Angeles. M. A., Claremont College

HALL, ROBERT J. - - - - - English
 A. B., Northern State Teachers College (South Dakota).
 M. A., University of South Dakota

HAMILTON, C. RICHARD - - - - - Photography/Publications
A. B., Fresno State College

HAYS, GERALD - - - - - Russian
A. B., Fresno State College. M. A. T., Indiana University

HETTICK, LARRIMORE W. - - - - - English
B. A., Fresno State College

HOLT, BERT - - - - - Physical Education
A. B., Fresno State College

HOMAN, RALPH J. - - - - - Art
B. A., San Jose State College. M. A., Long Beach State College

HONDRUM, JON O. - - - - - Dean of Instruction
B. S., University of Minnesota. M. A., Ph.D., Yale University

JACOBSEN, RICHARD C. - - - - - Director, Research and Planning
B. S., Drake University. M. S., University of Southern California

JENSEN, BRUCE F. - - - - - Agriculture
B. A., M. A., Fresno State College

JOHNSON, NOBLE - - - - - Speech
A. B., M. A., Fresno State College

KILER, FRANK E. - - - - - Industrial Arts
A. B., Santa Barbara State College

KLEINFELTER, DALE F. - - - - - Chemistry
A. B., Gettysburg College. M. A., University of New Mexico

KRUMDICK, VICTOR F. - - - - - Hygiene/Physical Education
B. S., M. P. E., Purdue University

LAWHORN, FRANK L. - - - - - Agriculture
B. S., M. A., California State Polytechnic College

LEWIS, JAMES G. - - - - - Social Sciences
A. B., M. A., Occidental College

LEWIS, REX O. - - - - - Business
B. S., University of Nebraska. M. S., University of Southern California

McCORMICK, ANNE M. - - - - - Home Economics
B. S., University of California. M. A., Fresno State College

McELROY, A. L. - - - - - Psychology
B. A., Texas Christian University. M. A., North Texas State University

MARTIN, FREDERICK M. - - - - - Biological Sciences
B. S., M. S., University of Nevada

MARTIN, NOEL B. - - - - - History
B. S., California Maritime Academy. M. A., San Francisco State College.
M. A., University of California

MERIDITH, CHARLES E. - - - - - Physical Sciences
B. S., M. S., University of Oregon. Ph.D., Stanford University

MORING, JAY E. - - - - - Architecture
B. Arch., University of Southern California

MORSE, GEORGE C. - - - - - English
B. A., M. A., University of Redlands

- MURRAY, THOMAS - - - - - English/Philosophy
A. B., Seattle Pacific College. M. Th., Berkeley Divinity School. Ph.D., Yale University
- MYERS, DOROTHY - - - - - Business
B. B. A., University of Washington. M. S., University of Southern California
- NEWCOMER, DUANE - - - - - Music
A. B., San Jose State College. M. A., Sacramento State College
- OTTO, JOHN D. - - - - - Counseling/English
A. B., Fresno State College. M. A., Stanford University
- PAPPAS, GEORGE C. - - - - - Speech/Drama
A. B., Fresno State College. M. A., University of Southern California
- PARKER, ALLEN W. - - - - - Physics
A. B., Linfield College. M. S., Oregon State College
- PETERSON, WAINO M. - - - - - Political Science
B. A., M. A., University of Idaho
- PIETROFORTE, ALFRED - - - - - Speech/Art
A. B., M. A., Fresno State College
- POLLOCK, EDWIN - - - - - Mathematics
B. S., M. S., University of Southern California
- PORTER, S. THOMAS - - - - - Political Science
A. B., Stanford University. M. A., Fresno State College
- PUSATERI, SAMUEL J. - - - - - Biological Sciences
A. B., M. A., University of Buffalo. Ph. D., University of Southern California
- QUINN, JAY G. - - - - - Business
A. B., M. A., San Francisco State College
- RAPHAEL, HOWARD L. - - - - - Mathematics/Counseling
A. B., University of California at Los Angeles
- REID, WILLIAM L. - - - - - Biological Sciences
A. B., Fresno State College
- ROBERTSON, GLEN E. - - - - - English
A. B., University of Utah. M. A., Brigham Young University
- ROBINS, FRED P. - - - - - Engineering
B. S., California Institute of Technology
- ROLLINS, GWENDOLYN N. - - - - - English
B. S., Southeast Missouri State College. M. A., University of Michigan
- ROUTEN, WILLIAM E. - - - - - Agriculture
B. S., University of Kentucky. M. Ed., University of Illinois
- RUSSELL, JO A. - - - - - Art
B. S., Oklahoma State College. M. A., Colorado State College
- SAVAGE, CAROLYN - - - - - Counseling/English
A. B., University of Colorado. M. A., Brigham Young University
- SCHOR, IRVING M. - - - - - Physics
A. B., New York University. M. S., University of Virginia
M. D., Medical College of Virginia

SHACKELFORD, AUGUSTUS G. - - - - - Economics
A. B., Long Beach State College. M. A., University of California at Los Angeles

SHEWEY, C. JEAN - - - - - Physical Education
A. B., M. A., Fresno State College

SILVA, VERNON J. - - - - - Dean of Men
A. B., University of California, Santa Barbara. M. A., Stanford University

SINDLINGER, ALBERT J. - - - - - Auto Technology
A. B., Fresno State College

SNELLING, CLAUDE - - - - - Journalism/Publications
A. B., Fresno State College. M. S., University of California at Los Angeles

SPEIDEL, KATHRYN S. - - - - - English
A. B., Stanford University. M. A., University of Southern California

STRINGARI, LAWRENCE - - - - - Chemistry
B. S., University of Santa Clara. M. S., College of the Pacific

STROM, AGNES M. - - - - - Registrar
B. S., Armstrong College

SUMMERHAYS, J. JAY - - - - - Police Science
A. B., University of California. M. S., San Jose State College

SWEENEY, ALBERT - - - - - English
A. B., San Jose State College

SWISHER, JAMES - - - - - Mathematics
B. S., Idaho State College. M. S., University of Colorado

TAYLOR, ROY D. - - - - - Physical Education
A. B., Fresno State College

THEIGE, JACK - - - - - Business
A. B., M. A., Fresno State College

THOMPSON, LEWIS A. - - - - - Business
A. B., University of Nebraska. M. A., University of California at Los Angeles

TILLMAN, LOIS A. - - - - - Dean of Women
A. B., M. A., University of California

VANE, REUBEN L. - - - - - Sociology/Physical Education
B. A., Augsburg College

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B. S., Fresno State College

WALKER, LEWIS - - - - - Assistant Librarian
A. B., Nebraska Wesleyan University

WALKER, WILMA - - - - - Nursing
B. S., Pacific Union College

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MR. JAMES BURNS Tulare Tulare County Hospital	MRS. LENA McNEALLY, L.V.N. Visalia Licensed Vocational Nurses League
DR. GEORGE LAVERS Tulare	MRS. ARLENE ROBERTS, L.V.N. Visalia Licensed Vocational Nurses League

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MR. ORVIE H. CLYDE Hanford Sheriff, Kings County	MR. FLOYD ROSECRANS Corcoran Chief of Police
MR. J. B. MAYFIELD Woodlake Chief of Police	MR. CLARENCE SPIER Dinuba Chief of Police
MR. C. V. LINCICUM Tulare Chief of Police	MR. FRANCIS TORIGIAN Porterville Chief of Police
MR. ELMER MOREHOUSE Exeter Chief of Police	MR. FRANK BENTZEN Visalia Chief of Police
MR. BRYAN SHORT Lemoore Chief of Police	

VOCATIONAL TRAINING IN POLICE SCIENCE

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MR. FRANCIS TORIGIAN Porterville Chief of Police	MR. JOHN C. WAINWRIGHT Hanford Patrolman
MR. SANDY ROBINSON Visalia Sheriff-Coroner, Tulare County	MR. RUSSELL PRICE Visalia Deputy, Tulare County

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MR. HERBERT LEMBCKE Visalia Carpenter	MR. G. A. WHITFIELD Visalia General Contractor
MR. CARL POWELL, JR. Exeter Carpenter	MR. COMER A. ROBERTSON Visalia Division of Apprenticeship Standards
MR. CARL POWELL, SR. Visalia Carpenter	

JOINT APPRENTICESHIP COMMITTEE

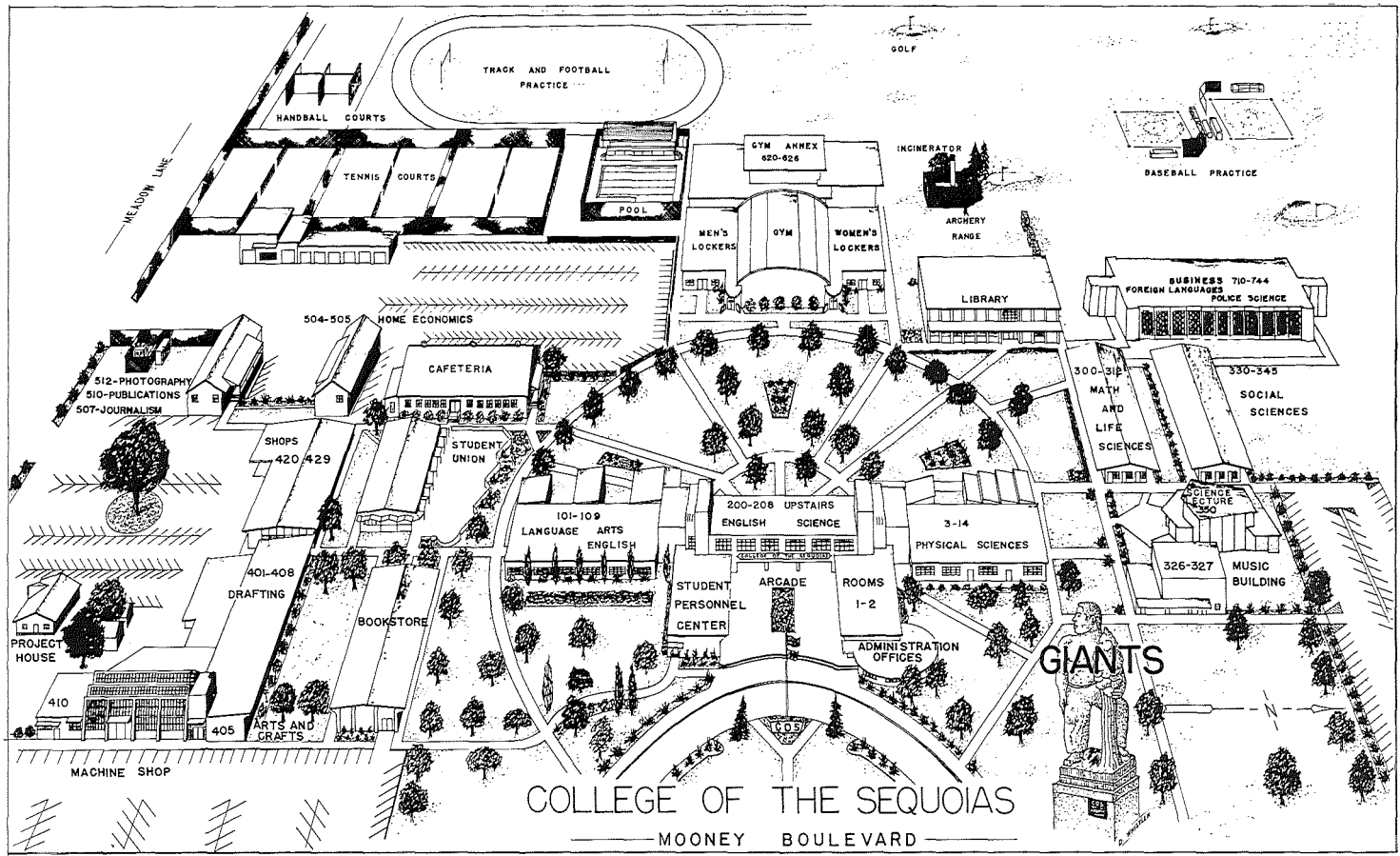
MR. JACK D. KOONTZ, Chairman Visalia Contractor	MR. ELTON L. STURM Visalia
MR. CALVIN E. BOLAND Visalia Contractor	MR. GENE ROACHE Visalia
MR. WAYNE MAYFIELD Farmersville	MR. JOE CASAEZ Visalia Contractor

MDTA NURSES AIDE TRAINING

MR. ERNEST CASASSA, Administrator, Kaweah Delta District Hospital Visalia	MRS. MARY ALICE SHOEMAKER, R.N. Director of Nursing, Kaweah Delta District Hospital Visalia
MISS METTA CLIFT, R.N., Staff Nurse, Kaweah Delta District Hospital Visalia	DR. GORDON SMITH, Chief of Staff Kaweah Delta District Hospital Visalia
MRS. MAY MAINWARING, R.N. Director of Nursing, Retired Visalia	

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MR. ARTHUR MASTERS Bakersfield The King Lumber Company	MR. ROBERT McBRIEN Los Altos Lumber Merchants Association of Northern California



COLLEGE OF THE SEQUOIAS
 — MOONEY BOULEVARD —

GIANTS

GOLF

MEADOWN LANE

TRACK AND FOOTBALL PRACTICE

HANDBALL COURTS

TENNIS COURTS

POOL

GYM ANNEX 620-626

MEN'S LOCKERS

GYM

WOMEN'S LOCKERS

INCINERATOR

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GENERAL INFORMATION

THE COLLEGE

The college was established by the Visalia Union High School Board of Trustees as Visalia Junior College in 1925, and offered the first post-high school instruction to students of this area beginning September, 1926. College classes were housed in the Visalia Union High School plant until September, 1940. At that time the college moved to its own fifty-five acre campus southwest of Visalia where new buildings had been completed.

On January 18, 1949, the voters of Tulare Union High School District and the Visalia Union High School District elected to organize the areas in those two high-school districts into a junior-college district. During the spring the students voted on a name for the newly-formed junior-college district. From the names suggested by the students, the board of trustees chose the name, College of the Sequoias.

On January 18, 1950, the voters within the Exeter Union High School District and the Woodlake Union High School District voted to join the College of the Sequoias District.

On September 19, 1950, the voters within the Lindsay Unified School District voted to join the College of the Sequoias District.

On April 17, 1962, the voters within the Orosi Union High School District and the Alpaugh Unified District voted to join the College of the Sequoias District.

On September 18, 1962, Corcoran Unified District voted to join the College of the Sequoias District.

On November 6, 1962, Hanford Joint Union High School residents voted to join the College of the Sequoias District.

On December 11, 1962, the voters within the Westside Unified District voted to join the College of the Sequoias District.

College of the Sequoias serves an area of more than three thousand square miles in the heart of the San Joaquin Valley. Its offerings include an educational program for students who plan to continue their education, as well as terminal courses for specific occupations. The college provides counseling service for all students with special emphasis on vocational programs.

The general aim of the College of the Sequoias is to provide educational services for the various communities of its area. This aim requires of it a variety of functions and programs which include training for occupational competency, for civic competency, and for personal efficiency. The College of the Sequoias will provide formal college education for the youth of the communities and will, as well, serve as an active cultural center, attempting to meet the total post-high school needs of the communities.

The specific aims of the College of the Sequoias are:

1. To provide comprehensive training to those students who will finish their period of formal education in the junior college. This is designed to achieve occupational competence.

2. To provide every student that training which will prepare him to function effectively as a citizen.
3. To assist its students to "find themselves" through proper counseling and guidance.
4. To provide an adequate lower-division offering for those students who plan to transfer to a university or college after completing two years in junior college.
5. To provide instruction to meet the needs of adults living in the region.
6. To provide an opportunity for students to remove any deficiencies they may have in entrance requirements to a university.
7. To provide experiences needed to increase the student's abilities to cope with everyday living as an adult in a rapidly changing world.

Our college occupies a 55-acre site. The buildings are modern and well equipped. Additions have been made each year. In the last seven years we have occupied a new \$300,000 library, \$121,000 social science building, \$100,000 student union, \$70,000 student store, \$165,000 industrial-technical building, \$150,000 swimming pool, \$250,000 physical education building, and \$160,000 agricultural building.

New campus additions and improvements include an \$800,000, two-story classroom and laboratory building, housing the business division and departments of police science and foreign languages; a \$200,000 science lecture hall; and an expansion of parking facilities on the campus northside.

In addition to the fifty-five acre site on which the main buildings are located, we have a farm consisting of 160 acres. This farm has many buildings which include a shop, grade-A dairy barn, beef, hog, and poultry units. This farm is used as an experimental laboratory by the agriculture department.

College of the Sequoias, with its strategic location, its excellent buildings and facilities, together with a well-trained staff, will continue to serve the youth of this area. Constructive suggestions from students and patrons are always welcomed.

CURRICULUM

College of the Sequoias students may be classified into two major groups: those students who are planning to continue their education in four year colleges or universities and those students who expect to enter some occupation either before or after graduation from junior college. The curriculum is designed to meet the needs of the students in both groups.

Courses numbered 1-49 are designed for college or university transfer as well as credit toward the Associate in Arts degree.

Courses numbered 50-99 are for credit toward the Associate in Arts degree; however 50-99 courses also may be accepted by state colleges. The purpose of these courses is (1) to provide for students who wish to complete a general education in the junior college and to assume immediately their places as active citizens of the community, (2) and to provide semi-professional or vocational training designed for students who wish to enter the business and industrial world after finishing their junior-college studies.

COUNSELING AND GUIDANCE

Counseling and guidance are important aspects of the college program. The counselors and the deans constitute the regular counseling staff. All faculty members participate as advisers, and students are encouraged to consult them on problems concerning their courses.

Specialized counseling services are available from the counseling staff in the Student Personnel Center. The purpose of these services is to give students guidance in personal problems and counseling in vocational and educational fields. Professionally-trained counselors use modern scientific personnel methods in assisting students to analyze their aptitudes, interests, abilities, and personality traits. Up-to-date information about vocational training and opportunities is available.

LIBRARY

The functional and attractive college library was completed in February, 1959. Open stacks, typing, conference and listening rooms are features of the new facility.

The present book collection of 32,000 volumes has been carefully selected to meet course requirements and the recreational reading needs of students and faculty. More than 300 current magazines and newspapers are received regularly. The resources of other libraries in the state are available through inter-library loans.

VETERAN'S EDUCATION

The college is approved for training veterans under the provisions of all state and federal laws. Any student who plans to receive such benefits should contact the Student Personnel Center as soon as possible for further information and guidance.

WAR ORPHANS EDUCATION PROGRAM

This is a program of financial aid for the education of young men and women whose parents—World War II or Korean veterans—died of injuries or diseases resulting from their military service. The students must be approved for this training by the Veterans Administration. This approval should be made prior to confirmation of registration.

STATE AID TO PHYSICALLY HANDICAPPED

The State of California, through its Bureau of Vocational Rehabilitation, provides financial assistance to students, both civil and military, who have physical disabilities. This assistance equals the necessary school expenses and may include an additional amount to help cover the cost of living. Students who may be entitled to this assistance should consult the Registrar.



THE MILITARY AND SELECTIVE SERVICE

The college cooperates fully with various military programs to aid students in preparing themselves for their military obligations while remaining in college. College of the Sequoias officials also are in close contact with Selective Service and are in a position to give maximum help to students who desire to be deferred so that they may continue their education.

THE ASSOCIATED STUDENTS

The Associated Students of College of the Sequoias is the official student-body organization. Upon payment of the ten-dollar student-activity fee at registration each semester, the student receives a student-body card which entitles him to participate in the activities of the organization so long as he remains in good standing. All activities which concern the student body as a whole are sponsored by the associated students.

The business of the associated students is carried on by the Student Executive Board, the members of which are elected by the students. Comprising the executive board are the president, vice-president, sophomore class president, freshman class president, Inter-Club Council president, Associated Men Students president, Associated Women Students president, and the commissioners of art, finance, records, activities, athletics, and publications.

STUDENT ACTIVITIES

At the College of the Sequoias the responsibility of a junior college to help develop the social, emotional, and physical, as well as the intellectual growth of the student is recognized. Consequently, a variety of out-of-class, or co-curricular activities are provided. These activities include responsible, self-governing student government, assembly programs which are both educational and entertaining, a diversified athletic and recreation program, and social events which are designed to appeal to all students.

There are numerous actively-functioning clubs or college-wide committees on the College of the Sequoias campus. These groups are headed by the Inter-Club Council, which works with, but is subordinate to, the Student Executive Board. The constitution of the Associated Students of College of the Sequoias vests financial control over student-body funds in the executive board, which is composed of elected representatives of the student body. This governing group, which is advised by the Dean of Men, also makes final decisions on virtually all matters concerning extra-curricular activities.

Clubs and Organizations: Headed by the Inter-Club Council, the organizations presently active on campus are Alpha Gamma Sigma (honor scholarship society), Business Club, Canterbury Club, Chess Club, Delta Psi Omega (drama), Deseret Club, Ellen H. Richards Club (home economics), College Y, Future Teachers Club, International Relations Club, Medical Arts Club, Newman Club, Physical Science and Engineering Club, Press Club, Rodeo Club, Sequoia Christian Fellowship, Ski Club, Speculators Club, Stumblers. (folk dance club) Varsity Club, Young Democrats, Young Republicans, Agriculture Club, Associated Men Students, Associated Women Students, Art Services Committee, Assembly Committee, Rally Committee, Social Committee, Student Properties Committee, and Technical Assistance Committee. The Building Trades Alumni, composed of former students majoring in building trades, also cooperates with the student body in connection with certain student activities.

Athletics: The College of the Sequoias is represented by teams in football, basketball, baseball, cross country, swimming, track, tennis, golf, water polo and wrestling. The College of the Sequoias is now competing in the recently formed Valley Conference composed of Fresno City College, Modesto Junior College, San Joaquin Delta, Sacramento City College, American River Junior College, and College of the Sequoias. At the end of the first year of competition in the new conference, College of the Sequoias had outscored all its conference rivals to win the All Sports Trophy.

Intramural sports also are stressed, with physical education activities such as bowling, golf, swimming, tennis, tumbling, badminton, weight lifting, boxing, archery, wrestling, folk-dancing, social dancing and modern dancing available to students. Most of these classes are offered on a co-educational basis.

Dramatics: An experimental theatre group offers interested students the opportunity to participate in both one-act and three-act plays.

Music: The choir, many smaller vocal groups, a marching band, a dance band, and various instrumental ensembles furnish music for assemblies and many special occasions during the school year.

Operetta: For several years the College of the Sequoias has presented an outstanding operetta or light opera in the spring to packed houses in Montgomery Auditorium. Recent productions include "The Student Prince," "The Desert Song," "The Music Man," "My Fair Lady," "Carousel," and "Camelot." The drama, music and physical education departments, together with almost all other divisions of the college, combine efforts in these annual presentations.

Publications: College of the Sequoias journalism students publish a weekly newspaper (The Campus) and an annual (Koh-Kyo). Both publications have won many awards in rating contests. A handbook (Sequoiana) is published for distribution to students when they register in the fall. A college literary magazine (The Tangent) is also published.

Social Affairs: Activities in the social sphere include a number of dances, both formal and sport, an all-school carnival, banquets, teas, barbecues, and luncheon meetings. Many of these functions are planned for college-wide participation while others are held mainly by and for the benefit of individual clubs or organizations.



LIVING ACCOMMODATIONS

Information regarding rooms or room-and-board situations for MEN who wish to live in the local area may be obtained from the main office.

WOMEN may obtain similar information from the Dean of Women's office. Women under twenty-one years of age who are not residing at home must have the approval of their parents or guardians if they have not secured local residence through college recommendations. Living in apartments, except in the case of married students, is not encouraged by the college.

There are no dormitories at the college.

EMPLOYMENT

The college recognizes that one of the tests of its programs is the success with which current students, graduates, and former students meet the requirements of employers. The College has centralized its placement services in the Student Personnel Center. Here all students who are interested in part-time or full-time employment may file application forms for work. Every effort is made to place students in jobs for which they will be best suited in terms of interest, aptitudes, and past work experience. The college considers that satisfactory part-time work experience is an important part of the vocational adjustment of students, and the Student Personnel Center, whenever possible, places applicants where the experience will be most beneficial.

Students who wish to work in private homes for room and board should consult the Dean of Women or the Dean of Men. No definite arrangements may be made by correspondence since a personal interview is always necessary.

EXPENSES

No tuition is charged except to out-of-state students. An activity fee of ten dollars is payable each semester prior to the scheduling of a counseling appointment.

There are no laboratory, gymnasium, library, locker or shop fees.

Textbooks and school supplies will cost approximately fifty dollars a semester. However, costs for supplies will vary according to the student's major—consult counselor. New and used textbooks and essential stationery supplies may be purchased on the campus at the C.O.S. Bookstore.

STUDENT INSURANCE COVERAGE

Members of the Associated Students of the College of the Sequoias are covered for personal accident or injury by a unique policy paid for by the student body and the College of the Sequoias District. In addition to other benefits, this policy provides non-deductible coverage for accidents occurring during college sponsored and supervised curricular or co-curricular activities, either on or off campus.

This coverage may be supplemented, at the student's option, with full-time accident and sickness-medical insurance available at a nominal fee.

TRANSPORTATION

Transportation is provided to and from the college by a modern well-kept fleet of buses. These buses operate on "shoe string" runs, staying overnight at the end of the run. Areas served by buses include Alpaugh, Corcoran, Cutler, Earlimart, Exeter, Farmersville, Hanford, Ivanhoe, Lindsay, Orosi, Pixley, Strathmore, Three Rivers, Tulare, Visalia, Woodlake, and Yettem.

Any student is eligible to ride these buses providing he lives a sufficient distance from the college.

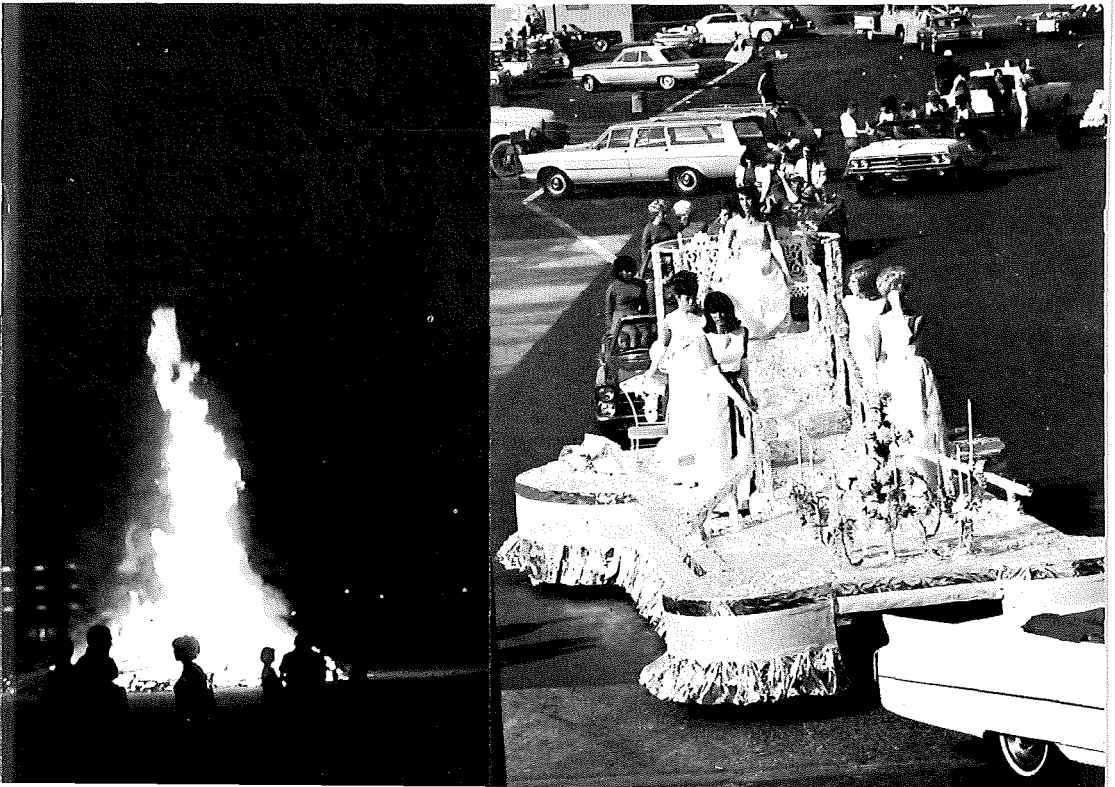
STUDENT-ACTIVITY FEE REFUNDS

A refund of student-activity fees will be made only if students notify the college of their intention not to attend COS. This notification must be given at least one week prior to the first class meetings of the semester. Thereafter no portion of the ten-dollar fee will be refunded upon withdrawal.

CAMPUS PARKING

Limited parking facilities are provided for students on campus. Students who have bus transportation available to them are encouraged to ride buses rather than drive their own automobiles because of the added safety and financial savings. Those who do bring automobiles on campus are required to have state vehicle registration slips in plain view in the driver's compartment. Citations will be issued and fines assessed to anyone not parking properly or exceeding the speed limit. The speed limit on school grounds is 15 miles per hour.

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Eleanor Smith, Mt. Whitney High School
 Soroptimist Club, Hanford
 Standard Oil Company (4-H Club)
 John Stevenson Memorial, Hanford
 Strathmore Town and Country Club
 Tipton American Legion Post 831
 Tipton American Legion Auxiliary Post 831
 Tipton Faculty Club
 Tipton Lions Club
 Tulare AMVETS Post No. 56
 Tulare City Teachers Association
 Tulare County Medical Assistants Association
 Tulare High School Teachers Association
 Tulare Union High School Associated Students
 Tulare Women's Club
 Veterans of Foreign Wars, Hanford
 Visalia Chamber of Commerce
 Visalia Community Service Organization
 Visalia Emblem Club No. 79
 Visalia Teachers Association
 J. Post Williams Scholarship

A faculty committee encourages and aids outstanding students to obtain scholarship awards upon the completion of their work at the College of the Sequoias. Organizations which sponsor scholarships specifically for the benefit of College of the Sequoias graduates who continue their education at four-year colleges or universities are the following:

Alpha Gamma Sigma Honor Society, COS
 American Association of University Women, Sequoia Branch
 American Business Women's Association
 Bank of America
 Business and Professional Women's Club
 Delta Kappa Gamma
 Future Teachers Club, COS
 McMahan Furniture Company
 Soroptimist Club
 Theta Tau Theta, Zeta Alpha Chapter, Visalia
 Tulare Council of the Parent-Teacher Associations
 University of California Alumni
 Visalia Municipal Hospital Guild (Grant-in-Aid)
 Visalia Times-Delta

College of the Sequoias has been approved for participation in the National Defense Student Loan Program. Needy students with superior academic background may borrow up to \$1,000 a year. Students majoring in science, mathematics, engineering, modern foreign languages elementary education, and secondary education will be given first priority. A borrower who becomes a full-time teacher in a public elementary or high school may have up to fifty percent of his loan cancelled. Inquiries should be directed to the Dean of Student Personnel or the Scholarship Committee.

EVENING COLLEGE

GENERAL INFORMATION

The Evening College is an integral part of the college. It offers lower division subjects leading to graduation from college or high school, and work to meet the special needs and interests of adults. A regular class schedule is planned for each semester. College terminal and transfer credit is granted. A few non-credit courses of varying lengths also are conducted during semesters. All evening classes conform to the standards of regular day classes and are open to mature residents of the college district.

Most classes meet once or twice a week for two or three hours. They are planned to assist the adult learner. These classes may be scheduled for both day and evening from eight o'clock in the morning to ten o'clock in the evening, Monday through Saturday.

Appointments with trained counselors may be made by Evening College students in the administration office of the college.

EVENING COLLEGE OPPORTUNITIES

Because of the flexibility of its organization and its variety of courses, the Evening College is able to serve individuals of post-high school age irrespective of their background, training, and experience. Its aims include the extension of opportunities for improved living.

The Evening College serves the young college student who finds it convenient to take courses in the evening hours as part of his regular studies or who wishes to make up deficiencies.

The more mature adult who is employed during the daytime may enroll in the evening course of his leisure or vocational interest. He may also earn credit leading to graduation from college or high school.

Of immediate use to students are the subjects in general education, business, semi-professional, and technical fields. Featured also, are upgrading courses in industry, work experience under supervision, as well as refresher, coaching, and avocational courses.

These services for adults are developed in cooperation with the community through representatives from trades, business, industry, commerce, professions, and community agencies.

A brochure describing the Evening College program may be obtained in the administration office or will be mailed upon request. Registration procedures fees and regulations are listed in the printed schedule of classes.

Complete course descriptions are printed in the college catalog.

FEES

Adults, with the exceptions noted in the schedule of classes brochure, will be charged \$3.00 per unit or fraction thereof. Non-credit classes of 9 weeks or longer will cost \$6.00 tuition. No auditing of courses will be permitted.

Laboratory, shop and material fees are assessed according to the amount of materials used. There are no fees for academic courses for students under twenty-one years of age.



GENERAL REGULATIONS

ADMISSION

Graduates of any high school, regardless of high-school courses taken, are admitted to this college, as well as such other persons over eighteen years of age who may be approved for admission by the administration. Courses taken in the college by students over eighteen years of age but who are not high school graduates may be credited by the high schools toward meeting high-school graduation requirements.

Non-high school graduates will be required to take a scholastic aptitude test prior to counseling or registration for day classes. The non-high school graduate will be admitted on probation.

Applicants for admission may secure application admission blanks and student health forms from the office of the registrar. Registration will not be completed until application blanks and health forms have been filled out and returned to the registrar. Transcripts of high school and college records must be on file in this office sufficiently early to be evaluated before individual counseling. A student may not be counseled or permitted to register before he has taken the scholastic aptitude test and the placement test(s).

Students from institutions of collegiate rank may be admitted upon the presentation of transcripts from such institutions, subject to approval by the administration of the College of the Sequoias.

Evening College Students: Any individual 18 years of age, or older, or high school graduates under 18 years of age may enroll.

REGISTRATION

Registration must be completed before the beginning of each semester. In addition, students must verify their intention to attend by being present for class meetings on the first two days of the semester. Students will be withdrawn from all classes in which they are absent on the first two days of class meetings. If unusual circumstances will prevent the student from attending on these days, he should obtain approval to enter late from the Dean of Student Personnel.

Only under extraordinary conditions will registration be permitted after class meetings begin.

Evening College Students may register by mail, in person during announced dates in the month prior to the beginning of classes, or during the closing dates for registration as published in the calendar in the catalog. Counseling services from the counseling staff are available to adults by appointment during registration periods.

PLACEMENT AND APTITUDE TESTS

Placement tests are given in May, July, August, and January of each year in English, shorthand and typewriting.

For those who wish to take courses in English or speech, the English test is given to determine the placement of the student in the various English courses. An acceptable grade in the English placement test is required for admission to the basic courses such as English 1a and Speech 1a.

For those who have had previous training in either shorthand, typewriting, or both, tests are given to determine the placements of the students in the various shorthand and typewriting classes.

A mathematics proficiency test is required of all students who have had at least three and one-half years of high school mathematics and plan to take calculus.

A scholastic aptitude test (College Qualification Test) is given on the same day as the placement tests and is required of all entering students. A student may not be counseled or permitted to register before he has taken the scholastic aptitude test and the placement test(s).

TRANSCRIPTS

Each applicant must file a certified transcript of his high-school record with the College of the Sequoias. Applicants who have attended another college or university must, in addition, file transcripts from each college or university attended showing all attempted work. College of the Sequoias reserves the right to evaluate work completed in other colleges. Transfers with acceptable grades will be granted advance standing insofar as the work completed corresponds with that of College of the Sequoias or the lower-division work offered in the University of California.

Failure to file transcripts may delay or prevent admission. Transcripts should be sent directly from the high school or college to the College of the Sequoias. All transcripts become the property of the College of the Sequoias and will not be returned.



MATRICULATION DEFICIENCIES

In the case of an applicant not eligible for clear admission to a standard college or university at the time of his entrance to junior college, deficiencies in both subject and grade requirements for such admission should be removed in the junior college.

Repetition of a college course for the purpose of removing a grade deficiency is permissible only in a case where the student has received a grade below "C".

OUT-OF-STATE STUDENTS*

The non-resident tuition fee for each semester is \$10.30 per unit.**

Students enrolled for non-credit will pay the same fees as if enrolled for credit. The application for admission must be accompanied by a deposit of \$25, which is not refundable. It will be considered as partial payment of the tuition fee. The balance of the tuition fee is payable in full prior to the first date that class instruction begins. There will be no refunds after class instruction begins.

*The out-of-state student is one who is under 21 years of age, unmarried, and whose parents reside outside the state or in a foreign country.

**Tuition is subject to variation by the California State Board of Education.

CLASSIFICATION OF STUDENTS

Freshmen: Students with fewer than 30 units of college credit.

Sophomores: Students who have completed 30 units of college credit.

Others: Students who have completed more than 60 units of college credit.

Full-time Students: Students carrying 12 units or more.

Part-time Students: Students carrying less than 12 units.

AMOUNT OF WORK

The normal requirement for a college schedule comprises fifteen units of work. No student will be granted credit in excess of eighteen units a semester, except in the case of a student of proven ability who needs additional units to complete required work for graduation.

COURSES FOR NON-CREDIT

A student may enroll in a course for non-credit if he receives permission in advance from the instructor and from a counselor. In the event of crowded conditions, students taking a course for credit will be given preference. A student will receive neither credit nor a grade when enrolled in a course for non-credit. The privilege of examinations and other facilities for credit in a course is not available to students enrolled for non-credit. A student may not change from non-credit to credit after the last day for adding classes as shown on the calendar.

CREDIT BY EXAMINATION

Credit by examination may be granted for a limited number of courses as specified by the particular division only if the student petitioning for such credit meets certain qualifications.

It is recommended that the interested student confer with either the Dean of Instruction or the Registrar in this regard.

ATTENDANCE

Regularity of attendance is fundamental to satisfactory progress in school work. Every student should assume the responsibility of regular attendance, not only because he can thus study most effectively, but also because his attendance assures the financial support which enables the institution to provide better facilities for all students.

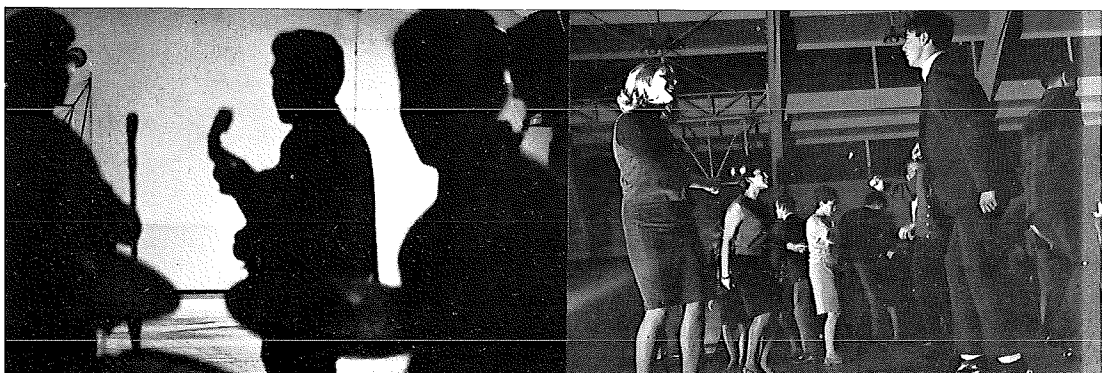
The absence policy which has been adopted for College of the Sequoias follows:

- A. Any unexcused absence shall result in "F" for the day's work.
- B. Excused absences are to be made up to the instructor's satisfaction or they shall become unexcused.
- C. Unexcused absences in excess of the number of class units shall result in the student's being withdrawn from the class.
- D. Upon his return to school after having been absent because of illness, a student shall fill out in duplicate the form for Verification of Absence Due to Illness. The instructor issuing the forms shall keep one copy to turn in to the office; the other copy should be retained by the student to present for initialing to all instructors whose classes he has missed. When all instructors concerned have signed this second copy, the student shall leave it at Room 4 where it will be placed in the student's personal file.
- E. Unexplained absence for two consecutive weeks shall result in the student's being withdrawn from the class.

PHYSICAL EDUCATION REQUIREMENTS

All students carrying over eight units of work and who are under twenty-one years of age are required by state law to enroll in, and successfully complete, the regular prescribed courses in physical education for four semesters, unless proper medical exemptions are presented.

Any full-time student who fails to maintain attendance or is recommended for withdrawal from physical education classes will have his program reduced to eight units or less.



ATHLETIC ELIGIBILITY

In general, those students who are graduates of high schools within the College of the Sequoias District will be eligible to participate in athletics as long as they enroll in, and successfully pass, a minimum of ten units of class work, excluding physical education credit.

Out-of-state students may be eligible only if they are under twenty-one years of age and have made a bonafide move with their parents to the College of the Sequoias District.

Transfers from other junior colleges or from four-year colleges should confer with the Dean of Men or the coaches regarding their eligibility status.

CONDUCT

Students are expected to set and observe among themselves a proper standard of conduct. Failure to show such respect for order, morality, and personal honor as is expected of good citizens may be sufficient cause for removal from College.

LEAVES OF ABSENCE

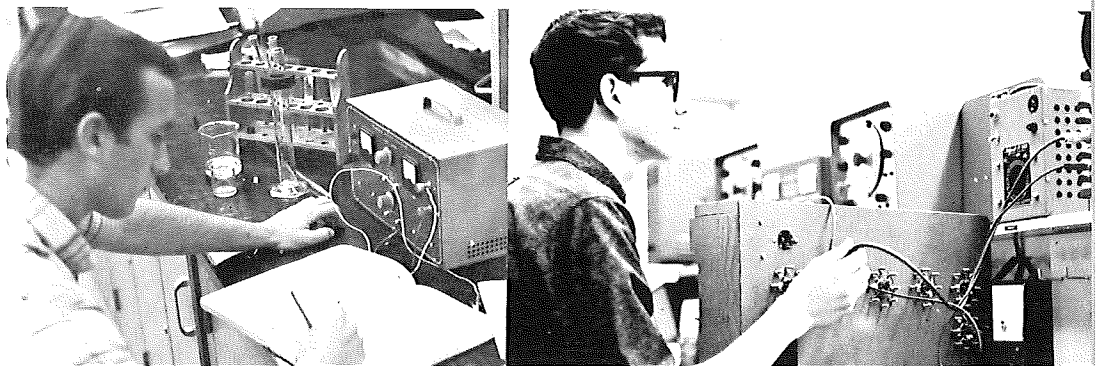
Students finding it necessary to be absent for a period of three days or more are requested to see the Dean of Men or Dean of Women in order to obtain a leave of absence form. The reason for the absence is indicated on this form, as well as the dates of the proposed absence. If the leave is granted, the student has the privilege of making up the work missed in his classes. A leave of absence in no way relieves the student of the responsibility of completing all work to the satisfaction of the instructors involved.

WITHDRAWALS FROM COURSE OR COLLEGE

Students desiring to withdraw from a course or from college should file the proper request with a dean. Any withdrawal filed by the student before the end of the first six weeks of a semester entitles him to receive a "W". After the first six weeks period, a student will receive a "WP" if his course work has been satisfactory, "WF" if his work has been unsatisfactory.

Students **will not be permitted to drop (an) individual class(es) during the last six weeks of a semester** except for unusual circumstances such as part-time employment, recommendation of a physician, etc.

If a student withdraws unofficially from a course or from college and does not follow the proper withdrawal procedure, he may receive the grade of "WF".



DEFICIENCY NOTICES

Deficiency notices are mailed to the student at mid-term (the end of the first nine weeks of a semester) for all classes in which the instructors think he is doing unsatisfactory "D" or "F" work.

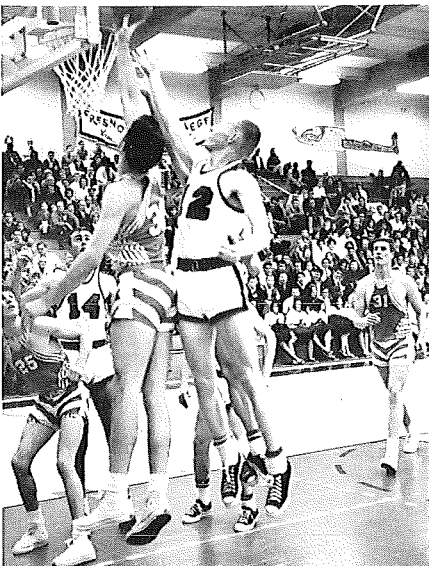
A student receiving deficiency notices is urged to discuss with his instructors reasons and possible remedies for his lack of academic success.

SCHOLASTIC HONORS

Special recognition is granted to top scholars each semester. The president of the college commends, on the **Deans' List**, those students who attain a grade point average of 3.0 (B) or better with a cumulative grade-point-average of 2.0 minimum. In addition, he commends, on the **President's Honor List**, those special students who attain both a cumulative and a semester grade-point-average of 3.0 (B) or better. Qualification for either honor requires enrollment in a minimum of twelve units. Physical Education is excluded from the determination of the grade-point-average except when failed.

A record of these accomplishments becomes a part of the student's permanent scholastic record. In addition to the academic recognition, the student also will receive special priority for early appointment for program planning.

Upon application by the student at the end of each semester, grade-point-averages are computed to determine the students with 45 or more grade points. This scholastic record entitles the student to temporary membership in Alpha Gamma Sigma, California Junior College Honor Society. Not over ten percent of the members of each graduating class may become permanent members. Permanent members must have earned a total grade-point-average of not less than 3.3 and must have been temporary members for these semesters. At commencement they are awarded the Alpha Gamma Sigma pins and certificates and are graduated with honors.



GRADING PROCEDURES

All college work is measured in terms of both quantity and quality. The measure of quantity is the unit, and the measure of quality is the grade point.

High school courses for which credit was received in high school may be repeated as remedial work in college for improvement in grade, but no college credit will be granted for such work.

For purpose of graduation or transfer to other collegiate institutions, it is necessary for the student to obtain a "C" average.

"A", "B", "C", and "D" are passing grades, corresponding to excellent, good, average, and passing, "F" failure. An incomplete (Inc.) grade will be given only with the special approval of the dean. This approval will be given only in cases of illness or other circumstances beyond the student's control and will indicate that the student is entitled to all grade points upon satisfactory completion of assignments within the first six weeks of the next semester of college. Failure to remove the incomplete within the designated period will result in a grade of "F".

It is understood that instructors' grades when handed in are final and not subject to change by reason of revision of judgment on the part of the instructor.

When a student repeats a course in which he has received a "D" grade, he will be entitled to the grade and grade points which he earns, but he will receive no additional units. When he repeats a course in which he has received an "F" grade, he will receive the grade, grade points, and units earned. Units and grade points will not be revised for repeated courses in which a "C" grade has been earned.

It is the responsibility of each student to compute his current grade point average for his own guidance in determining whether his scholastic record is meeting his own needs.

As an example of computing a grade point average let us assume a student undertook the subjects shown below and earned grades as indicated.

Subjects	Units Attempted	Units Passed	Grade	Grade Points
Physical Education	1/2	1/2	S	1
English 1a	(3)	0	W(F)	0
Chemistry 1a	5	5	A	20
Zoology 1a	4	4	B	12
Math 54	3	0	F	0
Hygiene 1	2	0	W(P)	0
	15 1/2	9 1/2		33

Grade point average is 33 divided by 15 1/2 or 2.12.

Explanation: Since Hygiene 1 was dropped with a "W(P)" it does not count as units attempted. All other subjects which were carried count as units attempted, including Math 54 in which the grade was "F", and English 1a in which the grade was "W(F)".

SCHOLASTIC REGULATIONS

The scholarship average is obtained by dividing the total number of grade points by the total number of units for which the student was registered. Grade points are assigned as follows:

Grade A receives 4 points per unit of the course taken.

Grade B receives 3 points per unit of the course taken.

Grade C receives 2 points per unit of the course taken.

Grade D receives 1 point per unit of the course taken.

Grade F receives 0 point per unit of the course taken.

Satisfactory Scholarship means at least a "C" (2.0) average. To achieve at least a "C" (or 2.0) average, a student must have a minimum of twice as many grade points as he has units attempted.

Transfer Students—Any student transferring from another college shall be subject immediately to these same scholastic regulations.

WARNING—A student is placed on scholastic warning whenever his cumulative grade point average lies between 1.99 and 1.76. A warning notice will be sent by mail to the student.

PROBATION—A student is placed on scholastic probation whenever his cumulative grade point average is 1.75 or less. A student who is placed on probation will be notified by letter of his status and due notice thereof entered on his permanent college record. He will remain on probation until he attains a cumulative "C" (2.0) grade average. Students on probation will be limited to a maximum program of 15½ units except on approval of the Scholastic Review Board.

DISQUALIFICATION—A student on probation will be disqualified if at the end of a semester he falls below a "C" (2.0) average in the units taken that semester.

A student who is disqualified will be so informed by letter and notice of his status entered on his permanent record. A disqualified student normally shall not be permitted to enroll for the next semester.

A student who has been disqualified and who desires readmission, must petition the Scholastic Review Board for probationary readmission through his counselor. This applies to all students, whether regular day or extended day (evening college).

If there is evidence that he can profit from another opportunity, and that the circumstances which prevented success in the past have been corrected, his petition may be granted with specific conditions regarding load, courses, and major.

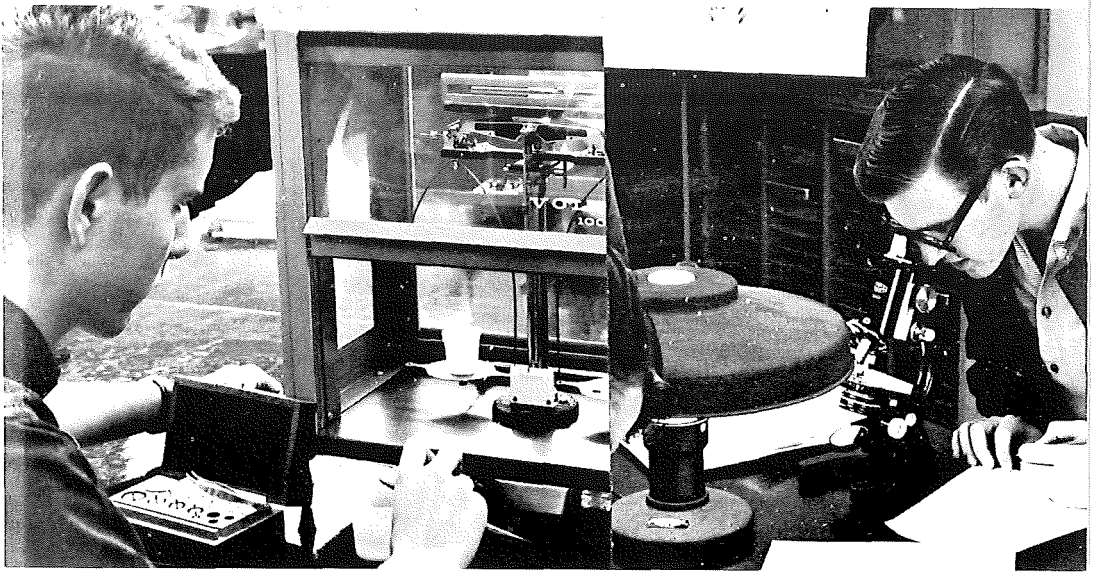
Students who have been disqualified more than once are not re-admissible except under the most unusual circumstances. Any student readmitted after disqualification is on probation until he attains a cumulative "C" (2.0) average.

REQUIREMENTS FOR GRADUATION

The degree of Associate in Arts will be awarded to all students upon the satisfactory completion of the following requirements:

1. A minimum of 60 units of college work with a "C" (2.0) average. To achieve a grade point average of "C", a student must earn twice as many grade points as units attempted.
2. Two units in Physical Education earned at the rate of one half unit per semester.
3. Two units of Community and Personal Hygiene, including the study of fire prevention, home safety, and accident prevention.
4. Three units in the Constitution of the United States, including the principles of California state and local government.
5. A minimum of three units in American History, including a study of American institutions and ideals.
6. Six units of English or Speech. For students majoring in pre-engineering or trades and industries this requirement is reduced to three units. Non-transfer students majoring in business are required to complete four courses in English, or speech.
7. A major consisting of a least 20 units of satisfactory work in specific subject or approved related fields. Among the subjects in which a student may major are Agriculture, Art, Auto Mechanics, Building Trades, Business, Drafting, Drama and Speech, Electronics, Engineering, English (including journalism), Foreign Language, Home Economics, Industrial Arts, *Liberal Arts, Mathematics, Metal Trades, Music, Police Science, Science, Social Science, and Vocational Nursing.
8. Fifteen of the total 60 units required for graduation must be completed in residence at the College of the Sequoias in order to qualify for graduation.

When preparing a program which meets the requirements for graduation, a student should plan to enroll in as many courses as is feasible in the



field in which he is primarily interested. If he is planning to transfer to another institution upon graduation from the College of the Sequoias, the student also should prepare, with the aid of his counselor, an educational program which will enable him to transfer to a college or university of his choice with full junior standing.

* Liberal Arts major requires 20 units, including 1 or more courses in at least 4 of the 5 following fields:

- a. Social Science, including: Psychology.
- b. Science or Mathematics.
- c. Foreign Language.
- d. Music, Art, or Philosophy.
- e. English.

EXPLANATION OF SYMBOLS

Example: "BUSINESS 60 α —ELEMENTARY TYPING (2) I, II, E."

"60 α " is the number of the course in Business.

"(2)" indicates the number of units of credit earned toward a degree in one semester of successful work in this course.

"I" indicates that this course is given in the first semester of the school year.

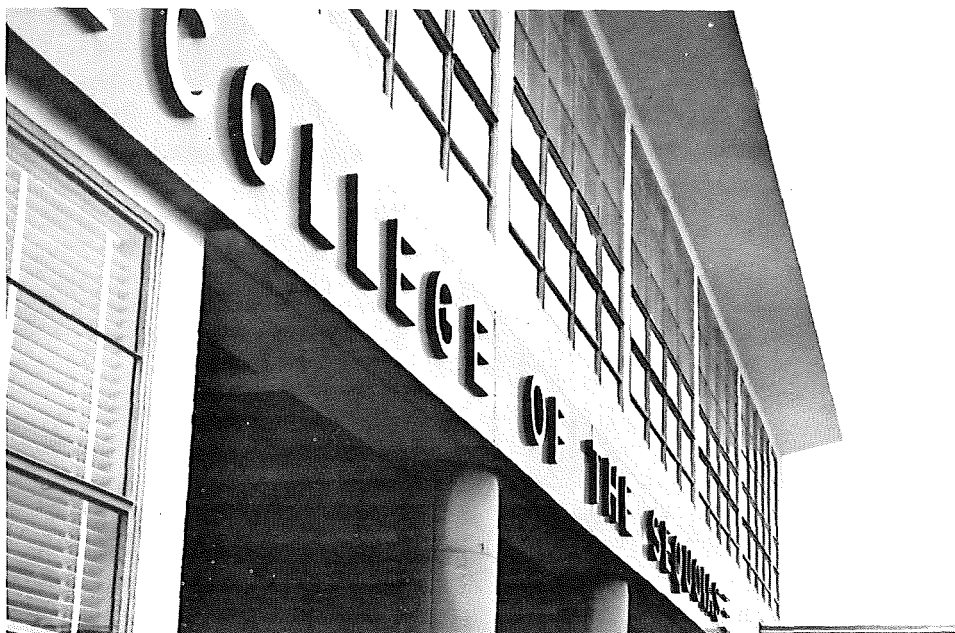
"II" after the course indicates that it is given in the second semester of the school year.

"Yr." after the course indicates that it is a year sequence course, the " α " part given during the first semester and the "b" part during the second semester.

"E" after the course indicates that the course may be given in the Evening College program.

COURSES NUMBERED 1-49 are designed for college or university transfer, as well as for credit towards the junior college Associate in Arts Degree.

COURSES NUMBERED 50 THROUGH 99: Though of collegiate grade, most are primarily technical or occupational courses. All may be freely transferred to other institutions of higher learning.



LOWER DIVISION REQUIREMENTS

GENERAL INFORMATION

A student who expects to transfer to the University of California or another institution maintaining equivalent standards must meet three principal kinds of requirements in order to attain full junior standing. These requirements are:

1. The removal of all matriculation (entrance) deficiencies.
2. The completion of the specific requirements for junior standing in the proposed senior college.
3. The completion of the lower-division prerequisites for the upper-division major. These prerequisites vary according to the major selected and also according to the institution in which the student expects to enroll. All students expecting to transfer to some other college or university should consult the catalog of that institution regarding specific requirements for upper-division standing. It is highly desirable that every student decide upon a major as early as possible after entering junior college. The basic junior standing requirements in certain fields of some of California's colleges and universities are here presented.

UNIVERSITY OF CALIFORNIA, BERKELEY

College of Letters and Science

Effective Fall, 1966, the University will adopt the quarter system and hence will offer annually four quarters, any three of which will comprise the normal school year. Quarter credit hours rather than semester units will be awarded and the student in full-time study normally will be expected to complete 45 credit hours per year. Specific detail regarding change in basic degree requirements will not be available until Fall, 1966, and the freshman student is therefore directed to the University of California catalog. Those students who have completed one or more semesters will be allowed the opportunity to complete degree requirements under the existing program. That program follows:

In addition to the requirements for the major field of study, a substantial proportion of the following must be completed with a minimum grade average of 2.0 or "C". (This average applies to those eligible for university admission in freshman standing on the basis of high-school record. Those ineligible must maintain a minimum grade point average of 2.4 and must complete a minimum of 56 transfer units or 84 quarter credits).

A. General requirements:

Subject A or its equivalent
Physical Education, 4 semesters
Hygiene, 2 units

B. English 1a-1b or Speech 1a-1b

C. Foreign Language

The equivalent of at least 12 units in one foreign language.

High-school work accepted toward this requirement will reduce the number of additional units, but will NOT receive university credit.

D. Humanities and Fine Arts. At least twelve units chosen from the following:

Art 7a*, 7b*, 6a*, 6b*.

English 4a, 4b, 5a, 5b, 30, 31, 44, 45.

French 4.

German 4.

History 4a, 4b, 8a, 8b, 10, 17a, 17b (not more than 6 units)

Music 7*, 8*, 10, 16b, 18*.

Philosophy 6, 7, 10a, 10b.

Spanish 4.

* Not more than 4 units in the performing arts may be included.

E. Social Sciences. At least 12 units chosen from the following:

Anthropology 10.

Economics 1a, 1b.

Geography 2.

History 4a, 4b, 8a, 8b, 10, 17a, 17b (not more than 6 units)

Political Science 5, 2.

Psychology 1a, 33.

Sociology 1a, 1b.

F. Natural Sciences. At least 12 units. (At least one course in laboratory science must be included in the natural sciences. Third or fourth year high-school courses in biology, chemistry, or physics will satisfy this requirement, but will not reduce the total number of college science units required.)

1. Either Chemistry 1a* or Physics 2a or 4a**
and

2. One of the following:

Biology 1a*, 1b*

Botany 1*

Zoology 1a*

and

3. Additional from:

Anatomy 1

Bacteriology 1* or 2*

Chemistry 1b*, 8-9*

Geology 1a, 1b

Mathematics 1a, 1b

Paleontology 10

Physics 2b, 3a**, 3b**, 4b**, 4c**

Physiology 1a, 1c*

Zoology 1b*

*Any course will satisfy the laboratory requirement.

**Any TWO courses will satisfy the laboratory requirement.

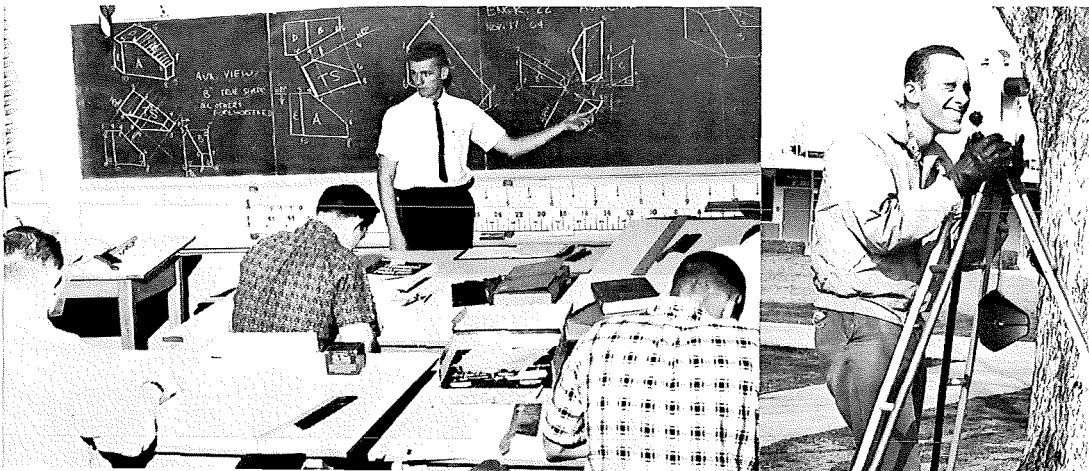


UNIVERSITY OF CALIFORNIA AT LOS ANGELES

College of Letters and Science

Junior class standing will be granted upon completion of not less than 56 semester units (84 credit hours) of college transfer work with a 2.0 or "C" average (or a 2.4 grade-point-average if ineligible for freshman entrance) and upon fulfillment of the following requirements:

- A. General University requirements:
Subject A or its equivalent
Physical Education, 4 semesters
Hygiene, 2 units
- B. English.
One course with a grade of "C" or better.
- C. Foreign Language.
Sixteen units (or its equivalent) in one or two languages. If a new language is begun on the college level, it will not apply on this requirement until at least two semesters are completed.
- D. Mathematics.
Elementary algebra and plane geometry. If these subjects were not completed in high school or were completed in the tenth year or beyond with a grade of "D", they must be taken in the junior college without transfer credit.
- E. Humanities.
0, 2, or 3 courses, dependent upon the student's major.
- F. Natural Sciences.
0, 2, or 3 courses, dependent upon the student's major.
- G. Social Sciences.
0, 2, or 3 courses, dependent upon the student's major (courses used to complete the American history and institutions requirement will **not** be applicable).



UNIVERSITY OF CALIFORNIA AT LOS ANGELES

College of Fine Arts

The college offers majors in art, dance, music, and theatre arts leading to the degree of Bachelor of Arts. Teaching credential major specializations in art education, dance, and music education, are offered in this college. Junior class standing will be granted upon completion of not less than sixty units of college transfer work with a 2.0 or "C" average (or a 2.4 grade-point-average if ineligible for UCLA freshman entrance) based upon the following requirements:

- A. General University requirements:
 - Subject A or its equivalent
 - American History and Institutions (History 10 and Political Science 5)
 - Physical Education, 4 semesters
 - Hygiene, 2 units
- B. English Composition
 - Two courses with grades of "C" or better.
- C. Foreign Language
 - Four courses in one or five courses in two languages. The application of high-school work is subject to the results of a placement test.
- D. Natural Sciences
 - Three courses, including two courses in the Physical Sciences
 - Astronomy
 - Chemistry
 - Geology
 - Mathematics (college algebra and above)
 - Meteorology
 - Physics
 - and one course in Biological Sciences
 - Bacteriology
 - Biology
 - Botany
 - Zoology
- E. Social Sciences
 - Four courses, including History 4a-4b, and one in each of two departments other than History:
 - Anthropology
 - Economics
 - Geography
 - Political Science
 - Psychology
 - Sociology
- F. Humanities
 - Four courses, including two from the arts (other than one's major)
 - Art
 - Music
 - Theater Arts
 - And two from literature and/or philosophy

UNIVERSITY OF CALIFORNIA — SANTA BARBARA

Candidates for the Bachelor of Arts degree must complete the following general education requirements with a minimum grade average of "C" or 2.0 (or 2.4 in a minimum of 60 college transfer units if ineligible for freshman entrance).

- A. General University requirements:
 - Subject A or its equivalent
 - Physical Education, 4 semesters
 - Hygiene, 2 units
- B. English: English 1-A-1B
- C. Foreign Language: 16 units in one or two languages or the equivalent
- D. Mathematics: None
- E. Humanities: At least 12 units selected from the following:
 - a. Literature, English or foreign, 3 units
 - b. Philosophy 6, 7, or 10 α -10b, 3 to 8 units
 - c. Fine Arts, History and Appreciation, 4 units:
 - Art 19
 - Speech 35
 - d. Electives: 2 to 3 units from:
 - α , b, c, above; or Speech 1 α
- F. Natural Sciences: At least 12 units, including one laboratory course, selected from the following:
 - a. Zoology 1 α or Botany 1, 4 units
 - b. Chemistry, geology, physics, 3 to 4 units
 - c. 4 to 6 units selected from:
 - Anthropology (physical), astronomy, biology, botany, chemistry, geography (physical), geology, mathematics, physics, zoology
- G. Social Sciences: At least 12 units selected from the following:
 - a. History, any course, 2 to 3 units
 - b. Two courses (4 to 6 units) in separate areas from the following:
 - Anthropology 10
 - Economics, any course except accounting or statistics
 - Political Sciences, any course
 - Psychology 1 α
 - Sociology 1 α
 - c. 4 to 6 units selected from the following:
 - Anthropology (except physical), economics (except accounting or statistics), geography (except physical), history, political science, psychology, sociology.

STANFORD UNIVERSITY

All candidates for admission as undergraduates are required to take the Scholastic Aptitude Test of the College Entrance Examination Board. Arrangements to take this examination should be made by the student directly with the office of the College Entrance Examination Board, Box 1025, Berkeley 1, Calif.

All candidates for the Bachelor of Arts and Bachelor of Science degrees are required to complete general, basic, and area requirements as follows:

General requirements:

Four semesters of Physical Education
Hygiene 1

Basic requirements:

1. English 1 α -1b
2. History 4 α -4b
3. One of the following areas:
Mathematics (Mathematics 53 or 54, 1 α and 1b)

OR

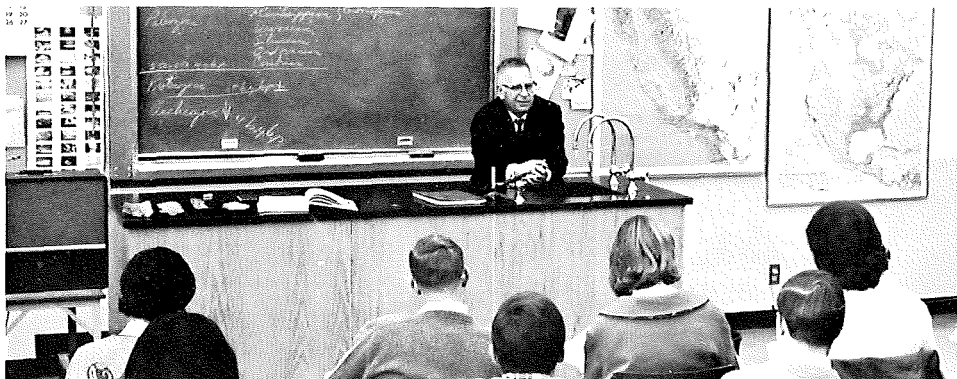
Foreign Language (German, French, Spanish. Attainment of reading ability equivalent to that of course 4)

Area requirements:

Major courses of undergraduate study are grouped in three general areas, and all students must complete the following requirements in the two areas in which they not NOT majoring.

1. Humanities. At least eight units chosen from any two of these areas:
Fine Arts (Art 1 α -1b or 19; Music 10 or 16 α -16b)
Philosophy 6,7
Literature (English 4 α , 4b, 5 α , 5b, 30, 31, 44, 45)

— 45 —



2. Social Sciences. Two of the following courses:

Anthropology 10
Economics 1a
Geography 2
Political Science 5
Psychology 1a
Sociology 1a

3. Natural Sciences. A year of biology, if no biology was taken in high school, and one of the following sequences:

Chemistry 1a-1b
Geology 1a-1b
Physical Science 10, 12
Physics 2a-2b + 3a-3b
Physics 4a, 4b, 4c

Students who have taken biology and physical science in high school may take EITHER biology or one of the series listed above.

Additional requirements for Bachelor of Arts candidates:

1. Philosophy 6

2. Natural Science. Courses chosen from the following list which when added to the work completed under Area Requirements, will total 12 or more units:

Anatomy 1
Biology 1a, 1b
Botany 1
Chemistry 1a, 1b
Geology 1a, 1b
Mathematics 1a, 1b, 2a, 2b
Physical Science 10, 12
Physics 2a, 2b, 3a, 4a, 4b, 4c
Physiology 1a-1c
Zoology 1a, 1b



UNIVERSITY OF SOUTHERN CALIFORNIA

The first two years in the College of Letters, Arts and Sciences are devoted to general education and certain lower division subjects required of all students who are candidates for the Bachelor of Arts degree. The following program of courses offered at College of Sequoias will meet the requirements at the University.

A. General Requirements

1. English 1a-1b
2. Speech 1a
3. U. S. History and Government: This requirement for the degree may be met by History 10, History 8a-8b, or History 17a-17b, AND Political Science 5.
4. Foreign Language: (French, German, or Spanish), 12 units. Twelve units in a single language. A student may enroll in the college course for which his previous high-school training has prepared him. However, the student must complete the twelve-unit requirement in college work. No credit is allowed for work below the college level except when four years of one language was completed in high school with college recommended marks.

B. Humanities

1. Arts: Art Appreciation (Art 19) or Music Appreciation (Music 10), 2 units. (Students who transfer with 60 or more units may substitute 2 units of electives in fine arts or music.)
2. Literature (met preferably in upper division)
3. Philosophy and Religion: Philosophy 6

C. Natural Sciences (students may not enroll in introductory courses in biology, chemistry, or physics if they present a laboratory course in that subject from high school). Two courses may be chosen from the following offered at College at the Sequoias:

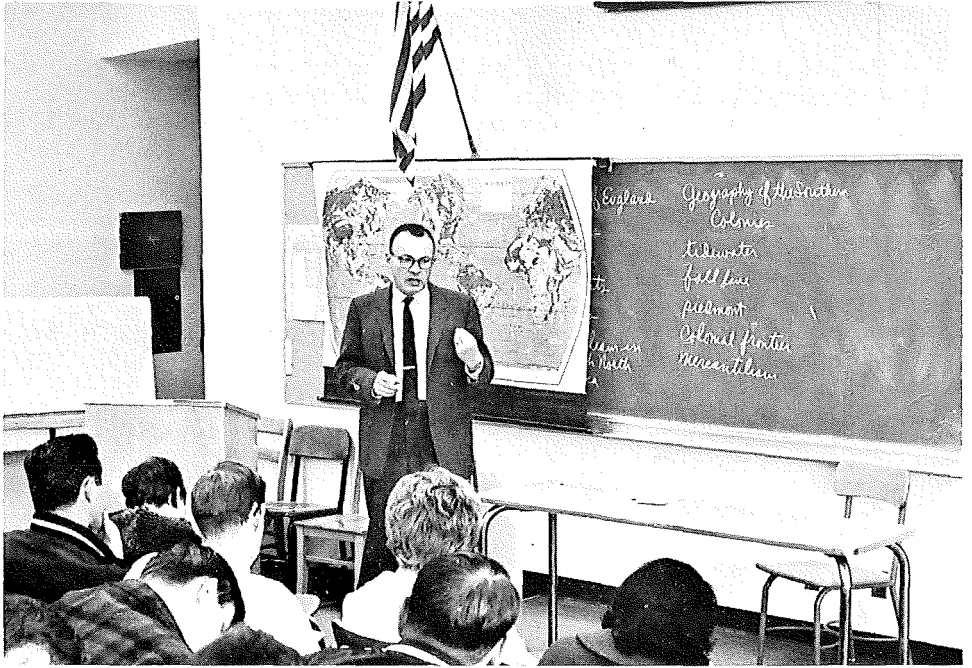
- Biology 1a-1b
- Chemistry 1a-1b
- Geology 1a or 1b
- Physics 2a-2b plus 3a-3b, or 4a-4b-4c
- Zoology 1a-1b

D. Social Sciences

1. History 4a-4b
2. One of the following courses: Anthropology 10, Economics 1a or 10, Psychology 1a, or Sociology 1a

E. Physical and Health Education

1. Four semesters of physical education activity courses.
2. Hygiene 1



CALIFORNIA STATE COLLEGES

There are several variations in the lower division requirements in the state colleges. The student should study the major department requirements in the catalog of the particular college which he intends to enter. He should also consult with his counselor in regard to scholastic transfer requirements.

CALIFORNIA STATE POLYTECHNIC COLLEGE AT SAN LUIS OBISPO

The general education requirements leading to a degree from California State Polytechnic College include these courses:

- A. Social Science, 10 units: Choose from Political Science 5, History 10, Economics 1a-1b, Geography 2, Business 18, Business 80a-80b, Business 81, 82.

- B. Sciences, 10 units: Choose from Chemistry 1 α -1b, Physics 2 α -2b, Physics 3 α -3b, Physics 4 α -4b, 4c, Physical Science 10, Physical Science 12, Geology 1 α , Bacteriology 1, Biology 1 α -1b, Botany 1, Entomology 1, Nature Study 10 α -10b, Zoology 1 α -1b.
- C. Mathematics, 2 units: Choose from Agriculture 92, Mathematics 1r, Mathematics 1 α , Mathematics 10, Mathematics 22.
- D. Literature, Philosophy and the Arts, 6 units: Choose from English 5 α -5b, English 1b, English 30, English 31, English 44, English 45, English 46, Art, Music, Practical Arts: Industrial Arts, Trade and Industries, Home Economics.
- E. Health and Physical Education, 4 units: Choose from Hygiene 1, Physical Education Activity, 4 semesters.
- F. Oral and written English, 6 units: Choose from English 1 α , Speech 1 α .
- G. Psychology 3 units: Choose from Psychology 1 α , Psychology 33.
- H. Electives, 45 units: Any of the above plus Mathematics, Foreign Language, Sociology 26.



FRESNO STATE COLLEGE

The general education requirements leading to a degree from Fresno State College include these courses:

- A. English, 6 units: English 1a and Speech 1a.
- B. Mathematics: Algebra and Geometry. If these courses are not completed in high school, they must be taken in college.
- C. Science, 9 units: Both biological and physical sciences must be included.
- D. Social Science, 9 units: Either a semester course (History 10) or a year course (History 8a-b or 17a-b) in United States history. A course in government (Political Science 5). In addition, one course in cultural perspective selected from History 4a-b, Anthropology 10, Sociology 1a, or Geography 2.
- E. Psychology, 3 units: Psychology 1a.
- F. Physical Education, 2 units: 4 activity classes.
- G. Hygiene, 2 units: Hygiene 1.
- H. Literature, Philosophy, and the Arts, 6 units: English 1b or Philosophy 6; and at least 3 units of Art 1a-1b, 19 or 25 a-b; Drama 35-36; or Music 2, 7, 8, 10, 16a-b, 18, 19 or 20.
- I. Additional units of General Education outside the major, 9 units:
Select from at least two categories:
 - Foreign Language (Maximum 6 units)
 - English 4a, 5a-b, 30, 31, 44, 45, 46
 - Mathematics 53, 54, 21, 1a-b, 1r 2a
 - Economics 1a-b, Sociology 1b, Political Science 2,
 - Sociology 26
 - Business 10, 18
 - Science, Physical or biological

Foreign Language Requirements: The following majors require two full years of college foreign language or four years of high-school foreign language.

Anthropology, Biology (B.A.), Botany (B.A.), Chemistry (B.S.), German 1, 2, and 61.

Economics (or Mathematics 1a, 21, and 6 units upper division).

Enology (one year only), History, Latin, American Studies (one year Portuguese and one year Spanish), Life Science, (B.A.), Microbiology (B.A.), Physics, (B.S.) Political Science, Sociology, and Zoology (B.A.)

SAN FRANCISCO STATE COLLEGE

The curriculum leading to the A.B. degree at San Francisco State College includes:

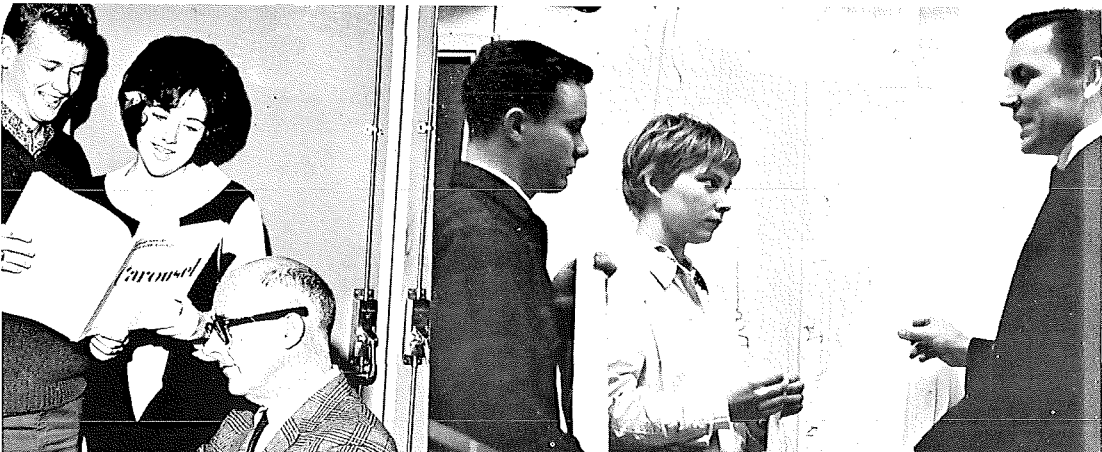
- A. English, 6 units. English 1 α , Speech 1 α .
- B. Humanities, Literature, Philosophy or the Arts, 6 units.
Three units must be completed in literature or philosophy; the other three may be in literature, philosophy, music, art or drama. English 1b may be taken in satisfaction of the literature requirement.
- C. Social Science, 9-12 units. Anthropology 10, Economics 1 α , Geography 2, Political Science 5, History 10 and Sociology 1 α courses will satisfy this requirement. Students may fulfill the state degree requirement for American institutions and ideals by taking United States history and political science courses. Credit earned in these courses is applicable to the social science requirement of 9 units.
- D. Natural Science, 9 units. Any combination of science courses will satisfy the science requirement provided the student completes at least one course in a biological science and at least one course in a physical science.
- E. Physical Education, 2 units.
- F. Hygiene 1, 2 units.
- G. Psychology 1 α , 3 units.
- H. Additional units, in General Education, 13 units.
Only six units of foreign language may be counted toward general education electives. Courses in business, home economics, industrial arts and engineering cannot be counted toward general education electives.
- I. A foreign language may be required in certain major fields, and students are encouraged to include a foreign language among their electives. **There is no general foreign language requirement for graduation.**



SAN JOSE STATE COLLEGE

The curriculum leading to the A.B. degree at San Jose State College includes:

- A. English and Speech, 6 units. English 1 α , Speech 1 α .
*(Most departments also require English 1b.)
- B. Literature, Philosophy, or the Arts, 9 units. At least three units must be taken in literature or philosophy. The remaining units may be taken in literature, philosophy, music, art, drama * or practical arts.
- C. Natural Sciences, 9 units, including both physical and biological sciences. At least one course must include laboratory work.
- D. Social Science, 9 units. *The social science requirement may be met by any of these three options: History 17 α , 17b, and Political Science 5; History 8 α , 8b, and Political Science 5; or History 10, Political Science 5 and one additional 3 unit course in social science (geography is recommended as the additional social science course for all persons seeking a teaching credential.)
- E. Physical Education, 2 units.
(One semester of swimming is required of all women unless the student passes the exemption swimming test at San Jose State.)
- F. Hygiene 1, 2 units.
- G. General Psychology, 3 units. Psychology 1 α .
- H. Electives in General Education, * 7 units.
Electives may be additional courses in any of the above areas or in mathematics, marriage and family life, or foreign language. (Up to 6 units may be taken in foreign language for elective credit.)
- I. *Foreign language will be required in the following majors: Chemistry, History, Mathematics, Music, Political Science, Pre-Medical, Pre-Physical Therapy and Pre-Theology. Foreign language is also required for teaching credential candidates with majors in English and Liberal Arts and for Sociology majors seeking the M.A. degree.



SUGGESTED PROGRAMS

AGRICULTURE

Instruction is offered in three major divisions: plant science, animal science, and agricultural mechanics. Courses are designed to prepare students for farming or for jobs requiring practical agricultural training.

Students who plan to transfer to the University of California, to California State Polytechnic College, or to Fresno State College for degree work in agriculture may take their first two years at the College of the Sequoias. Because of the variations in the lower-division requirements of the four-year schools, transfer students should consult an agricultural counselor in planning their programs.

The one-hundred sixty acre farm laboratory owned by the college is available for demonstration and laboratory work. Animal units including dairy, beef, sheep, swine and poultry are kept at the farm. Crops including alfalfa, irrigated pasture, cotton, corn, cereal crops, deciduous fruits, and grapes are provided for practical field work.

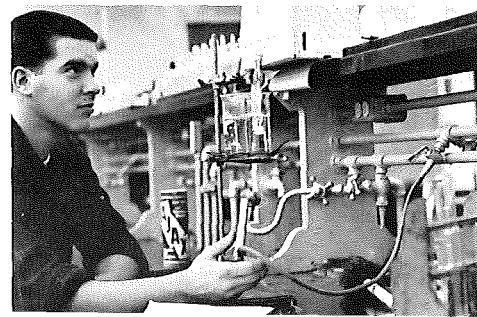
SUGGESTED TWO-YEAR COURSES LEADING TO THE A. A. DEGREE AGRICULTURE ENGINEERING TECHNICIAN

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Speech	3	English	3
Political Science 5	3	History	3
Agriculture 51	3	Agriculture 50	2
Agriculture 57	3	Agriculture 92	2
Electives	3	Electives	5
Physical Education	½	Physical Education	½
	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Agriculture 53	3	Agriculture 54	2
Agriculture 55α	3	Agriculture 55b	3
Hygiene 1	2	Agriculture 56	3
Industrial Arts 10α	3	Industrial Arts 10b	3
Electives	2	Electives	4
Physical Education	½	Physical Education	½
	16½		15½



AGRI-BUSINESS

The recent and widespread expansion of urban areas together with the trend toward large-scale farming enterprises has resulted in a decrease in the number of those persons gainfully employed in production agriculture and has brought about a striking increase in the numbers of those engaged in the sales and service occupations connected with the production, processing, and marketing of agricultural products and of farm supplies.

'CAREERS AHEAD', a publication of the Association of Land Grant Colleges and Universities, indicates that in contrast to some 2,000 farming opportunities for agricultural college graduates throughout the country there are six times as many opportunities for nonfarming occupations—some 12,000, of which 7,500 are in agricultural business.

To qualify students upon graduation from college for local positions as sales and service personnel the following two-year combination Agri-Business program has been inaugurated at College of the Sequoias.

Suggested Program

FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English	3	Speech	3
Chemistry 2a	3	Chemistry 2b	3
Agriculture 82	3	Agriculture 91	3
Agriculture 92	2	History 10	3
Business 70	3	Electives	3
Electives	2	Physical Education	½
Physical Education	½		
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	16½		15½
SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Agriculture 90	4	Political Science 5	3
Agriculture 93	3	Business 18	3
Agriculture 87	3	Agriculture 85	3
Economics 1a	3	Agriculture 83	3
Agriculture 52	3	Hygiene 1	2
Physical Education	½	Electives	2
	<hr style="width: 50%; margin: 0 auto;"/>	Physical Education	½
	16½		<hr style="width: 50%; margin: 0 auto;"/>
			16½

Recommended business electives: Business 80a-b; Business 93; Business 72; Business 98; Business 59; Business 68a. Business 60a is required if the student has not already had a course in typewriting.

Recommended agriculture electives: It is preferable to choose the elective courses in agriculture from a major field of interest, e.g., Plant Science, Animal Science, or Agricultural Mechanics.

ANIMAL SCIENCE TECHNICIAN

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Agriculture 76	3	Speech	3
Agriculture 87	3	Chemistry 2b	3
Agriculture 90	4	Agriculture 65	4
History 10	3	Agriculture 84	3
Electives	2	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English	3	Agriculture 75 or	
Chemistry 2α	3	Agriculture 63	3
Animal Husbandry 7 or		Agriculture 71	3
Agriculture 60	4	Political Science	3
Animal Husbandry 8	1	Agriculture 51	3
Agriculture 50	2	Electives	3
Agriculture 92	2	Physical Education	½
Physical Education	½		<hr style="width: 50%; margin: 0 auto;"/>
	<hr style="width: 50%; margin: 0 auto;"/>		15½
	15½		

PLANT SCIENCE TECHNICIAN

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 2α	3	Chemistry 2b	3
Agriculture 88	4	Agriculture 91	3
Agriculture 82	3	History 10	3
Agriculture 92	2	Speech	3
English	3	Agriculture 83	3
Physical Education	½	Physical Education	½
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	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Agriculture 87	3	Political Science 5	3
Agriculture 90	4	Hygiene 1	2
Agriculture 50	2	Agriculture 85	3
Agriculture 52	3	Agriculture 51	3
Electives	3	Electives	4
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		15½

ARCHITECTURE AND ARCHITECTURAL ENGINEERING

College of the Sequoias offers two years of architectural courses that are patterned after California State Polytechnic College's courses. This will allow College of the Sequoias students to transfer into California State Polytechnic College's architecture and architectural engineering department, and proceed directly with their major courses.

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Architecture 1α	2	Architecture 1b	2
Architecture 2α	3	Architecture 2b	3
Architecture 6α	2	Architecture 31	2
Architecture 40	1	Mathematics 1b	4
Mathematics 1α	4	Physics 4α	4
English 1α	3	English 1b	3
Mathematics 1r	2	Physical Education	½
Physical Education	½		<hr style="width: 100%;"/>
	<hr style="width: 100%;"/>		18½
	17½		

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Architecture 6b	2	Architecture 6c	2
Architecture 32	2	Architecture 33	2
Mathematics 2α	4	Physics 4c	4
Physics 4b	4	Biology 1α	3
Engineering 1α	3	Speech 1α	3
History 10	3	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
	18½		17½



ART

Art offerings at the College of the Sequoias are designed to give maximum opportunities to both terminal and transfer students. These courses also provide basic training for students wishing to equip themselves for a vocation as well as for those who may enter other fields but desire to enrich their understanding and appreciation of art.

Transfer students may not be able to follow the suggested outline exactly because of the academic requirements of the university or special art school to which they wish to transfer. Art transfers are asked to secure guidance from their counselors in planning their program.

Suggested Program at State Colleges

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Art 6α	2	Art 6b	2
Art 7α	2	Art 7b	2
Political Science 5	3	History 10	3
Science	3	Science	3
English 1α	3	English 1b	3
Elective	2	Elective	2
Physical Education	½	Physical Education	½
	<hr style="width: 100%;"/>		<hr style="width: 100%;"/>
	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Art 12 or 14	2	Art 19	2
Art 25 or 29	2	Art 12 or 14	2
Science	3	Art 24	2
Speech 1α	3	Social Science Elective	3
Psychology 1α	3	Hygiene 1	2
Art 1α	3	Electives—General Education ..	2
Physical Education	½	Art 1b	3
	<hr style="width: 100%;"/>	Physical Education	½
	16½		<hr style="width: 100%;"/>
			16½

Art 54 and 55 should be considered for some schools.



BUSINESS

Modern business, as it becomes increasingly complex, requires beginning workers with an understanding of business and its relationship to society as a whole. Those students with a basic knowledge of the organizational structure of business and its functions and with a mastery of those skills required of the entering business worker will find their places more quickly and easily in the business environment. While each kind of business has characteristics exclusively its own, the fundamental problems of, and principles underlying, business present great similarities.

Students of business should register for those courses which will provide them with a foundation upon which, through actual experience in the business world, they may expand their knowledge and thus progress in the careers of their choice.

The following major study fields are available to students in the Business Division: Accounting, general business (clerical), merchandising, secretarial, pre-business administration, business education, agri-business, and data processing.

All college transfer courses listed for the Business Division parallel in content those same lower-division courses offered at the state colleges and universities.

Many of the state colleges will accept for transfer credit business courses numbered above 50 in which the student has made a "C" or better. However, the colleges may accept only the number of units which they allow were the course completed on their campus, or they may transfer the units for elective credit only.

In business classes students are encouraged to work to capacity and to progress as rapidly as is consistent with the business standards required. The skill-building classes in shorthand and typewriting allow placement of the student at the speed level corresponding to the maximum speed previously attained. Progression is determined by speed rather than by course sequence.

Adults are urged to attend the regular-day or evening business classes for training in any skills which they need to qualify them for upgrading and promotion or for qualifying for civil service examinations.

College Pre-Business Administration Program

Business Administration students planning to transfer to a state college or university should consult the catalog of the school of their choice, as the lower division requirements vary from school to school.

Most state colleges require that the business major complete Business 1a-1b and Economics 1a-1b in the lower division and demonstrate competency in typewriting and basic mathematics, either by taking a proficiency test or by registering for classes in these subjects in the junior college. Additional requirements for some majors are Business 10 and a mathematics course. Students should consult the college catalog for the lower-division requirements in the field of their specialization as these requirements do not follow set patterns.

Transfers to the University of California or one of the branches should check carefully to see that they have fulfilled the new mathematics requirements in addition to having taken Business 1a-b and Economics 1a-b.

ACCOUNTING

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 80a (El. Accounting)...	4	*Business 80b (El. Accounting)...	4
Business 68a (Off. Machines) ..	2	Business 84 (Intro to Data Proc.)	3
Business 93 (Survey of Law)	3	Business 92 (Surv. of Amer. Bus.)	3
Business 59 (Records Manage) Duplication)	2 1	Business 96b (Bus. Corres.)	3
English 51	3	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr/> 15½		<hr/> 15½

*The student who has had two years of high-school bookkeeping should register for Business 80b, substituting recommended electives for Business 80a.

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 81 (Adv. Accounting)	4	Business 82 (Tax and Payroll Acting)	4
Business 94 (Insurance Prin.) ...	3	Business 83 (Cost Accounting)...	3
Business 96c (Report Writing)....	3	Business 91b (Office Mgmt.).....	3
Business 98 (Human Relations)	3	Speech 51	3
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	<hr/> 16½		<hr/> 16½

Recommended electives: Business 13 (Business Consumer Problems); Business 22 (Business Mathematics); Business 58a (Office Procedures); Business 76 (Credits and Collections); Business 90 (Business Statistics); Business 95 (Business Arithmetic); Business 97 (Personal Finance); English 54; Business 91a (Small Business Management).



CLERICAL

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 60 or 61 (Typewriting)	2	Business 61 or 62 (Typewriting)	2
Business 70 (Salesmanship)	3	Business 68a (Office Machines)	2
Business 95 (Business Arith.)....	3	Business 58c (Charm)	1
English 51	3	Business 59 (Records Mgmt.)....	2
English 54	3	Business 92 (Surv. of Amer. Bus.)	3
Physical Education	1/2	Speech 51	3
	<hr style="width: 50%; margin: 0 auto;"/>	Hygiene 1	2
	14 1/2	Physical Education	1/2
			<hr style="width: 50%; margin: 0 auto;"/>
			15 1/2

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 61 or 62 Typewriting)	2	Business 84 (Intro. to Data Proc.)	3
Business 67 (Tech. of Dupli.)....	1	*Business 87 (Accting for Sec.)	2
Business 93 (Surv. of Law)	3	Business 58a (or 58b) (Office Proced.)	3
Business 96b (Bus. Corres.)	3	Business 69 (Machine Trans.)	2
Business 98 (Human Relations)	3	Business 97 (Pers. Finance)....	3
Political Science 51	3	History 51	3
Physical Education	1/2	Physical Education	1/2
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15 1/2		16 1/2

*An elective should be substituted if the student has had high-school bookkeeping or accounting.

Recommended electives: Business 13 (Business Consumer Problems); Business 91a (Small Business Management); Business 68b (Advanced Office Machines); Business 58b (Executive Secretarial Procedures).



BUSINESS DATA PROCESSING

Suggested Program

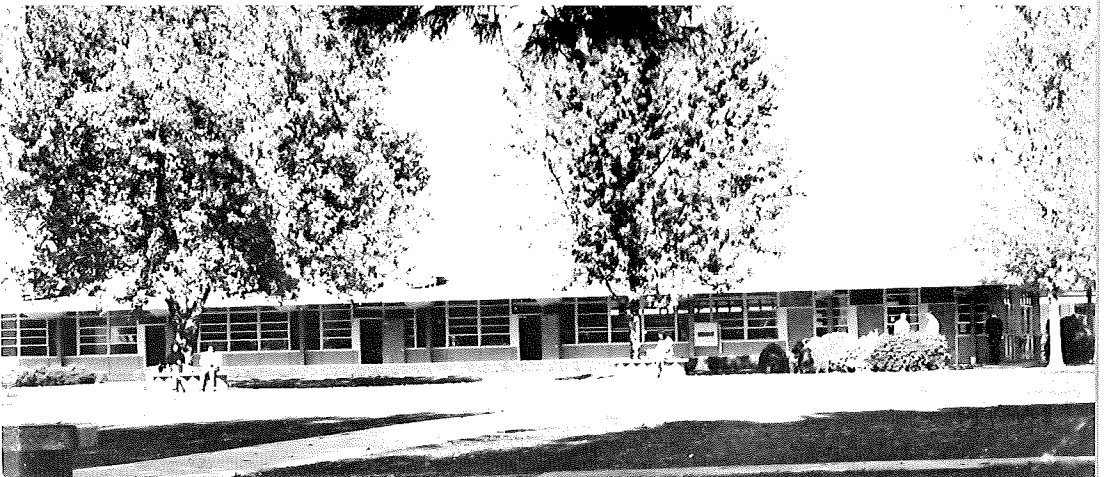
FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 84 (Intro. to Data Proc.)	3	Business 86α (Princ. of Comp. Prog.)	3
Business 85α (Electromech. Equipment)	3	Business 80b (Elem. Accting.) ..	4
Business 80α (Elementary Accting.)	4	Business 90 (or Mathematics) ..	3
Business 92 (Surv. of Amer. Bus.)	3	Business 96b (Bus. Corres.)	3
English 51	3	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr/>		<hr/>
	16½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 86b (Bus. Comp. Prog.)	3	Business 86c (Admin. Sys. and Proced.)	3
Business 81 (Adv. Accting)	4	Business 82 (Tax and Payroll Accting)	4
Business 96c (Report Writing) ..	3	Business 91b (Office Mgmt) ...	3
Business 93 (Survey of Law) ...	3	Speech 51	3
History 51 or 10	3	Political Science 51 or 5	3
Physical Education	½	Physical Education	½
	<hr/>		<hr/>
	16½		16½

Suggested electives: Business 83 (Cost Accounting); Business 91α (Small Business Management; Business 98 (Human Relations); Mathematics 15 (Introduction to Computer Mathematics.)



INSURANCE

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 92 (Surv. of Amer. Bus.)	3	Business 91a (Sm. Bus. Mgmt.)	3
Business 94 (Insurance Princ.)	3	Business 80b (El. Accting)	4
Business 80a (El. Accting).....	4	Business 22 (Bus. Math.)	2
Business 59 (Records Mgmt)	2	Business 68a (Office Machines)	2
English 51	3	Speech 51	3
Physical Education	½	Hygiene 1	2
	-----	Physical Education	½
	15½		-----
			16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 71 (Creative Selling)	3	Business 91b (Office Mgmt.)....	3
Business 96c (Report Writing)...	3	Business 84 (Intro. to Data Proc.)	3
Business 93 (Surv. of Law)	3	Business 90 (Bus. Statistics)	3
Business 98 (Human Relations)	3	Business 96b (Bus. Corres.)	3
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	-----		-----
	15½		15½

Note: Business 60a-b is required if the student has not already had typewriting.

Recommended electives: Business 58b (Executive Secretarial Procedures); Business 61a (Advanced Typewriting); Business 62 (Expert Typewriting); Business 67 (Techniques of Duplication); Business 97 (Personal Finance).



LEGAL SECRETARIAL

Suggested Program

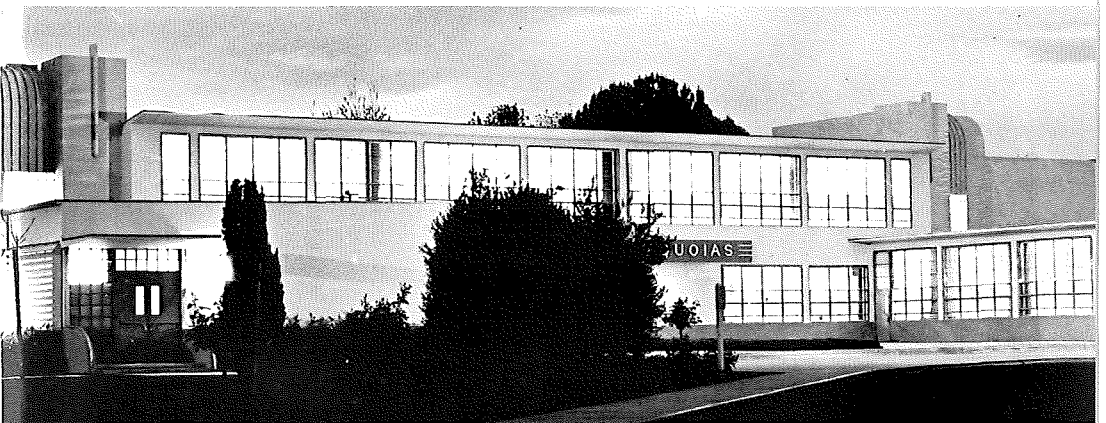
FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 52a (Adv. Shorthand)	4	Business 52b (Adv. Shthd.)	4
Business 53a (Adv. Shthd. Trans.)	2	Business 53b (Adv. Shthd. Transc.)	2
Business 96a (Sec. English)	3	Business 96b (Bus. Corres.)	3
Business 92 (Surv. of Amer. Bus.)	3	Business 69 (Machine Trans.)	2
Business 58c (Charm)	1	Business 59 (Records Mgmt.)	2
Hygiene 1	2	*Business 87 (Sec. Accting)	2
Physical Education	1/2	Physical Education	1/2
	15 1/2		15 1/2

*An elective should be substituted if the student has had high-school bookkeeping or accounting.

SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 55a (Legal Proced.)	3	Business 55b (Legal Sec. Procedures)	3
Business 93 (or 18) (Bus. Law)	3	Business 91b (Office Mgmt.)	3
Business 96c (Report Writ.)	3	Business 67 (Techs. of Dup.)	1
Business 98 (Human Relations)	3	Business 62 (Expert Typewrit.)	2
History 51	3	Political Science 51	3
Physical Education	1/2	Speech 51	3
	15 1/2	Physical Education	1/2
			15 1/2

Note: The specialized legal procedures and legal shorthand courses are offered only in alternate years. They will again be offered in the school year 1967-8.

Recommended electives: Business 97 (Personal Finance); Business 13 (Business Consumer Problems); Business 91a (Small Business Management); Business 84 (Introduction to Data Processing).



MEDICAL ASSISTANT

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 60a (Typewriting)	2	Business 59 (Records Mgmt.).....	2
Business 93 (Survey of Law)	3	Business 60b (Typewriting)	2
Business 95 (Business Arith.)....	3	Business 96b (Bus. Corres.).....	3
Biology 51 (Human Biology)....	3	Business 69 (Machine Trans.)....	2
Business 96a (Sec. English).....	3	Physiology 1a, 1c	4
Physical Education	½	Hygiene 1	2
	<hr/>	Physical Education	½
	14½		<hr/>
			15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 61a (Typewriting)	2	Business 91b (Office Mgmt.).....	3
Business 56a (Med. Off. Proc.)	3	Business 76 (Credits and Col.)	3
Business 58c (Charm)	1	*Business 87 (Sec. Accounting)	2
Business 96c (Report Writing)....	3	Speech 51	3
Business 98 (Human Rel.).....	3	Political Science 51	3
Business 67 (Tech. of Dup.).....	1	Hygiene 3	2
History 51	3	Physical Education	½
Physical Education	½		<hr/>
	<hr/>		16½
	16½		

*An elective should be substituted if the student has had high-school bookkeeping or accounting.

Note: The specialized medical procedures courses are offered only in alternate years; the entering freshman in fall semester 1966-7 should be registered in Business 65a.

Recommended electives: Business 92 (Survey of American Business); Business 62 (Expert Typewriting); Business 22 (Business Mathematics); Business 97 (Personal Finance); Business 84 (Introduction to Data Processing).



MEDICAL SECRETARIAL

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 52a (Adv. Shthd.)	4	Business 52b (Adv. Shthd)	4
Business 53a (Adv. Shthd. Transcr.)	2	Business 53a (Adv. Shthd. Transcr.)	2
Business 92 (Surv. of Amer. Bus.)	3	Business 96b (Business Corres.)	3
Business 96a (Sec., English)....	3	Business 69 (Machine Trans.)....	2
Biology 51 (Human Biology).....	3	Business 58c (Charm)	1
Physical Education	½	Physiology 1a, 1c	4
	<hr/>	Physical Education	½
	15½		<hr/>
			16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 56a (Med. Off. Proc.)	3	Business 56b (Med. Sec'l Proc.)	3
Business 96c (Report Writing)	3	Business 91b (Office Mgmt.)....	3
Business 59 (Records Mgmt.)....	2	Business 67 (Tech. of Dup.)....	1
Business 98 (Human Relations)	3	*Business 87 (Sec. Accounting)	2
Hygiene 1	2	Speech 51	3
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	<hr/>		<hr/>
	16½		15½

*An elective should be substituted if the student has had high-school bookkeeping or accounting.

Note: The specialized medical procedures courses are offered only in alternate years; the entering freshman in fall semester 1966-7 should be registered in Business 56a(b).

Recommended electives: Hygiene 3 (Red Cross First Aid); Business 95 (Business Arithmetic); Business 22 (Business Mathematics); Business 76 (Credits and Collections); Business 97 (Personal Finance); Business 84 (Introduction to Data Processing).



MERCHANDISING

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 71 (Creat. Selling).....	3	Business 74 (Marketing)	3
Business 72 (Retailing)	3	Business 91α (Sm. Bus. Mgt.)	3
Business 92 (Surv. of Amer. Bus.)	3	Speech 51	3
Business 95 (Bus. Arithmetic)....	3	Art 29α (Graphic Arts)	2
English 51	3	Hygiene 1	2
Physical Education	½	*Business 60 or 61 (Typewriting) or an elective	2
	<hr style="width: 50%; margin: 0 auto;"/> 15½	Physical Education	½
			<hr style="width: 50%; margin: 0 auto;"/> 15½

*An elective should be substituted if the student has had sufficient typewriting in high-school.

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 75 (Ad. and Display) 3	3	Business 73 (Retail Buying)	3
Business 80α (El. Account.)....	4	Business 76 (Credits and Col.-)	3
Business 96c (Report Writing) 3	3	Business 80b (El. Accounting)...	4
Business 98 (Human Relations),	3	Business 96b (Business Corres.)	3
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½

Recommended electives: Business 84 (Introduction to Data Processing); Business 93 (Survey of Business Law); Business 94 (Insurance Principles); Business 97 (Personal Finance).



OFFICE MANAGEMENT

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 92 (Surv. of Amer. Bus.)	3	Business 91a (Sm. Bus. Mgmt.)	3
Business 80a (El. Accting)	4	Business 80b (Ele. Accting)	4
Business 59 (Records Mgmt.).....	2	Business 67 (Tech. of Dup.).....	1
Business 93 (Survey of Law)	3	Business 76 (Credits and Col.)	3
English 51	3	Speech 51	3
Physical Education	½	Hygiene 1	2
		Physical Education	½
	15½		16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 58a (or 58b) (Office Proced.)	3	Business 91b (Off. Mgmt.)	3
Business 96c (Report Writing)....	3	Business 84 (Introd. to Data Proc.)	3
Business 98 (Human Relations)	3	Business 96b (Bus. Corres.) ...	3
Business 94 (Insurance Princ.)	3	Business 68a (Office Machines)	2
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	15½		14½

Note: Business 60a-b is required if the student has not already had typewriting.

Recommended electives: Business 22 (Business Mathematics); Business 61a (Advanced Typewriting); Business 62 (Expert Typewriting); Business 70 (Salesmanship); Business 90 (Business Statistics); Business 97 (Personal Finance).



REAL ESTATE

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 40α (Real Est. Princ.)	3	Business 40b (Real Est. Prac.)	3
Business 92 (Surv. of Amer. Bus.)	3	Business 22 (Business Math.)	2
Business 80α (Elementary Acct.)	4	Business 80b (Elementary Acct.)	4
English 51	3	Business 91b (Office Mgmt.)	3
Business 71 (Creative Selling)	3	Speech 51	3
Physical Education	½	Hygiene 1	2
	16½	Physical Education	½
			16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
*Business 41 (Real Estate Fin.)	3	*Business 43 (Real Estate Econ.)	3
*Business 42 (Legal Aspects of R. E.)	3	*Business 45α (Real Estate Ap.)	3
Business 96c (Report Writing)	3	Business 91b (Office Mgmt.)	3
Business 98 (Human Relations)	3	Business 96b (Business Corres.)	3
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	15½		15½

*To be completed in Extended Day

Suggested Electives: Business 93 (Survey of Business Law); Business 18 (Business Law); Business 94 (Insurance); Business 75 (Advertising and Display)



SECRETARIAL

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 50α, 51α, or 52α (Shthd.)	5-4	Business 50b, 52α, 52b (Shthd)	5-4
Business 60α, 61α, or 53α (Typ. or Trans)	2	Business 60b, 62, or 53b (Typ. or Trans.)	2
Business 92 (Surv. of Amer. Bus.)	3	Business 59 (Rec. Mgmt.)	2
Business 96α (Sec. English).....	3	Business 96b (Bus. Corres.).....	3
Business 68α (Office Machines)	2	*Business 87 (Accting for Secretaries)	2
Business 58c (Charm)	1	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½

*An elective should be substituted if the student has had high-school bookkeeping (or accounting).

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Business 52α (Adv. Shthd)....	4	Business 52b (Adv. Shthd.)	4
Business 53α (Trans.)	2	Business 53α (Trans.)	2
Business 96c (Report Writing)	3	Speech 51	3
**Business 58α (or 58b) (Office Proced.)	3	Business 58b (Exec. Sec. Proced.) or Business 91b	
Business 67 (Tech. of Dup.)	1	(Office Mgmt.)	3
History 51	3	Political Science 51	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 15½

**The student who has completed one year of office practice in high-school should register for Business 58b.

If the advanced shorthand and transcription requirements are fulfilled during the first year, the student should choose from among the following recommended electives:

Business 69 (Machine Transcription); Business 93 (Survey of Business Law); Business 97 (Personal Finance); Business 98 (Human Relations in Business); Business 13 (Business Consumer Problems); Business 91α (Small Business Management); Business 84 (Introduction to Data Processing).

DENTISTRY

University of California at Berkeley

The School of Dentistry offers a program leading to the degree of Doctor of Dental Surgery, based upon two years of college pre-dental work.

A School of Dentistry has been organized at the University of California at Los Angeles, and opened to first-year students two years ago.

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a or Speech 1a	3	English 1b or Speech 1b	3
Chemistry 1a	5	Chemistry 1b	5
Zoology 1a	4	Zoology 1b	4
History 10	3	Political Science 5	3
Physical Education	½	Physical Education	½
	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 8	3	Chemistry 5	3
Chemistry 9	3	Physics 2b	4
Physics 2a	4	Psychology 33	3
Psychology 1a	3	Foreign Language**	4
Foreign Language*	4	Hygiene 1	2
Physical Education	½	Physical Education	½
	17½		16½

* Must be at least second-semester college level. (Two years of high-school foreign language will be evaluated as first-semester college level.)

**Must be at least third-semester college level.



University of Southern California

The College of Letters, Arts and Sciences offers a program leading to the degree of Bachelor of Science in Dentistry, based upon two years of college pre-dental work, and requirements in the first two years of D. D. S. curriculum.

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 1a	5	Chemistry 1b	5
Foreign Language*	4	Foreign Language*	4
History 10	3	Political Science 5	3
Zoology 1a	4	Zoology 1b	4
Physical Education	½	Physical Education	½
	16½		16½

SECOND YEAR

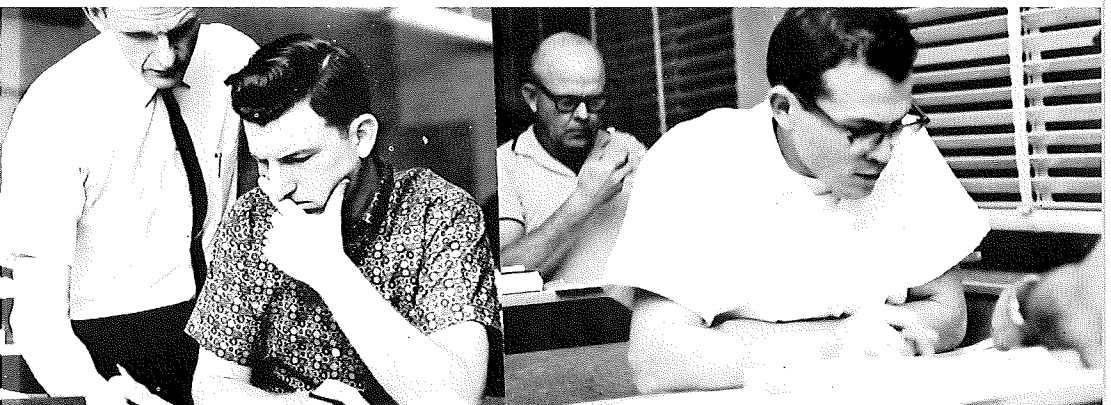
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Art 19 or Music 10	2	Psychology 1a	3
Foreign Language*	4	Hygiene 1	2
History 4a	3	History 4b	3
Physics 2a	4	Physics 2b	4
English 1a	3	English 1b	3
Physical Education	½	Art 25a	1
	16½	Physical Education	½
			16½

* High-school language may be continued.

Mathematics 53 and Mathematics 54 must be included in the pre-dental program unless completed in high school.

The university offers organic chemistry in upper division but will accept Chemistry 8 and 9 for credit toward pre-dental requirements. Literature requirements (English 4a-4b or 5a-5b) as well as Speech 1a or Philosophy 6, may be taken in the lower division.

For the pre-dental program leading to the degree of Doctor of Dental Surgery without the above degree, consult the university catalog and counselor.



EDUCATION

The State of California requires a credential of the proper type for teaching in the public schools. Preparation now requires five years of college training. Each candidate must have a major and a minor in an academic field (Education is no longer a major) and complete certain general education requirements as well as professional training in education courses. There are presently only six credentials, two of which concern you on the junior college level.

1. Standard Teaching Credential with Specialization in Elementary Education:

- a. Four years of college with a baccalaureate degree.
- b. An additional fifth year of post-graduate education.
- c. A single-subject major (24 units) or an interdepartmental major (24 units) in a subject normally taught in the public schools. No minor is required with an academic subject; however, one or two majors, academic or non-academic, may be required for non-academic majors. Check what you are allowed to teach with your major and minor.
- d. Courses in five of the six general education areas:
 1. Humanities - including one year of English - and competency in composition.
 2. Social Science.
 3. Natural Science (both biological and physical.)
 4. Mathematics (required for credential; Math. 140 at Fresno State College)
 5. Fine Arts
 6. Foreign Language.

2. Standard Teaching Credential with Specialization in Secondary Teaching:

- a. Four years of college with a baccalaureate degree.
- b. An additional fifth year of post-graduate education.
- c. A single-subject major (24 units) or an interdepartmental major (24 units) in a subject normally taught in the public schools. One or two minors are required, dependent upon your choice of major and its status as academic or non-academic. Check to see whether your choice of major and minor(s) is considered academic or is taught in the secondary schools.
- d. Courses in four of the six general education areas:
 1. Humanities - including one year of English and competency in composition.
 2. Social Sciences.
 3. Natural Sciences.
 4. Mathematics.
 5. Fine Arts.
 6. Foreign Language - Two college years of study.

Students should follow the general-education requirements and the courses for the major from the four-year school to which they wish to transfer. Your counselor can assist you.

ENGINEERING

Recommended Transfer Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a	3	Mathematics 1b	4
Mathematics 1a	4	Chemistry 1b	5
Chemistry 1a	5	Engineering 28	4
Mathematics 15	3	Physics 4a	4
Hygiene 1	2	Physical Education	½
Physical Education	½		
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	17½		17½

SECOND YEAR

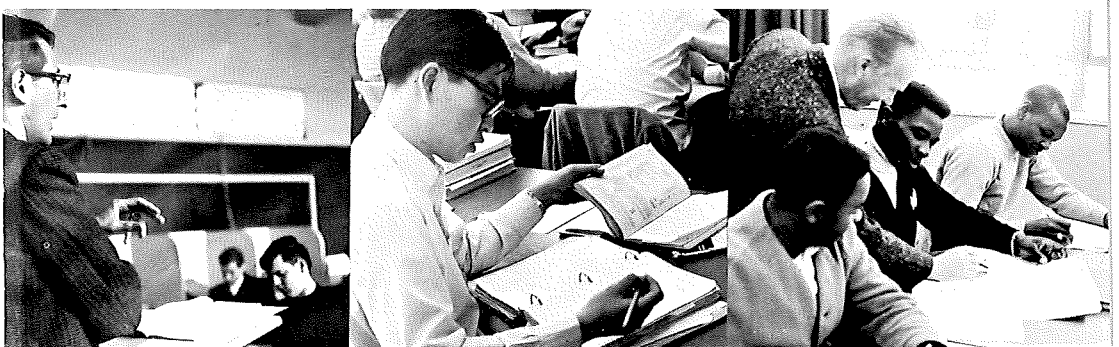
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Mathematics 2a	4	Mathematics 2b	4
Engineering 8	3	Engineering 35	3
Physics 4b	4	Physics 4c	4
Engineering 1a	3	Physics 6	3
Political Science 5	3	Engineering 1b)*	3
Physical Education	½	Engineering 24)**	3
	<hr style="width: 50%; margin: 0 auto;"/>	History 10	3
	17½	Physical Education	½
			<hr style="width: 50%; margin: 0 auto;"/>
			17½

* Civil Engineering majors take Engineering 1b.

** Mechanical Engineering majors take Engineering 24.

College of the Sequoias offers a two-year pre-engineering course that will enable the student to earn the Associate in Arts degree.

Widely diversified avenues of professional engineering education are available in the junior colleges, private colleges, state colleges, and the University of California. The junior colleges offer two years of engineering education to prepare students for transfer at the junior-year level to the colleges and universities offering bachelor's and post-graduate degrees. The required subject material in the first two years is similar; however, differences do exist among the senior institutions. Before planning a study list, the junior-college student should consult with his counselor and study the catalog of the senior institution to which he expects to transfer.



ENGINEERING-TECHNICAL

ENGINEERING AID

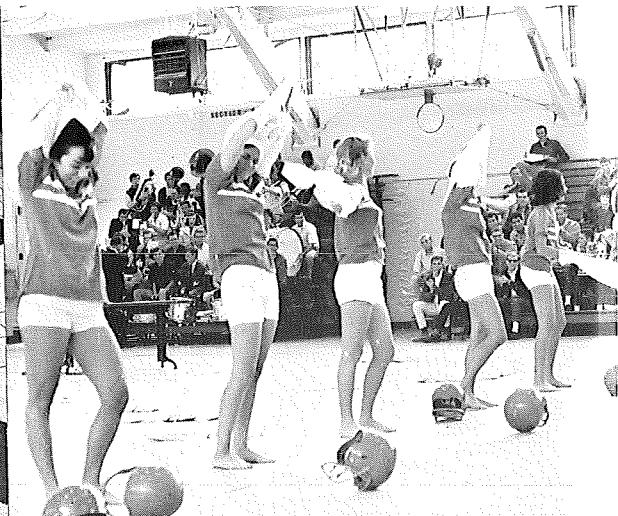
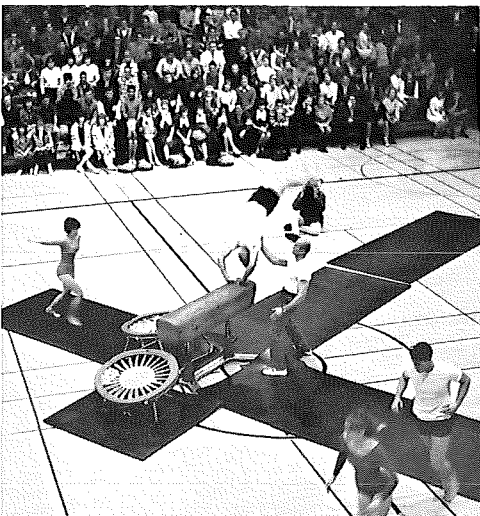
This engineering program is designed to train men and women for a career in engineering with engineering computation, surveying and engineering drawing.

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Mathematics 53	3	Mathematics 54	3
Engineering 22	3	Engineering 24	3
Chemistry 53	3	Mathematics 20	2
English 1a	3	English 1b	3
Architecture 6a	2	Architecture 31	2
Architecture 40	1	Political Science 5	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Mathematics 1r	2	Mathematics 1a	4
Engineering 23	3	History 10	3
Engineering 1a	3	Engineering 1b	3
Physics 1a	3	Physics 2b	4
Physics 2a	4	Architecture 6c	2
Architecture 6b	2	Hygiene 1	2
Industrial Arts 40a	3	Physical Education	½
Physical Education	½		<hr style="width: 50%; margin: 0 auto;"/>
	<hr style="width: 50%; margin: 0 auto;"/>		18½
	17½		



DRAFTING

This curriculum is designed to train men and women for a career in either architectural drawing or engineering drawing at the completion of this program. Minimum units: engineering, 6; architectural, 11; to a maximum of 20 units.

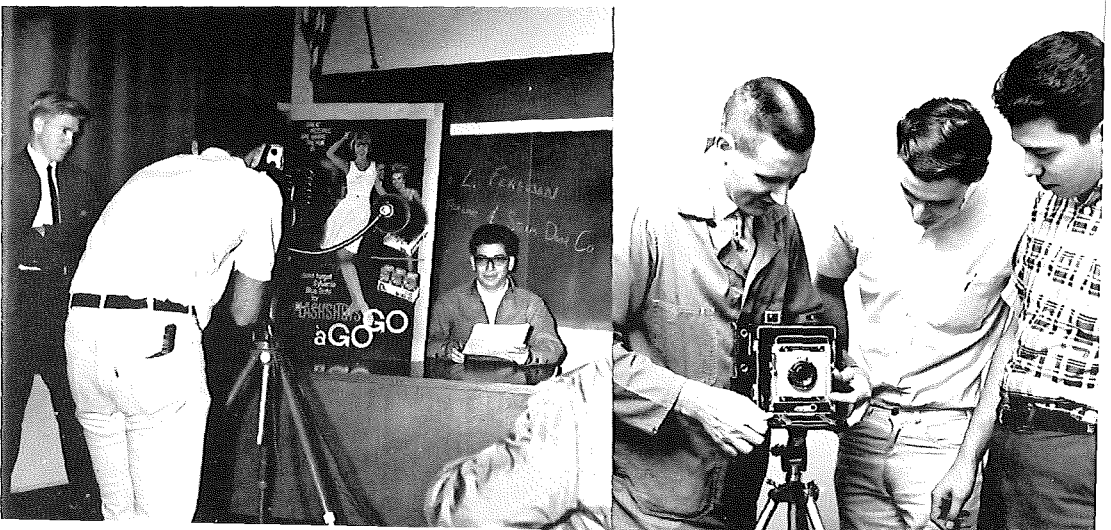
FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Architecture 2α	3	Engineering 24	3
Architecture 6α	2	Hygiene 1	2
Mathematics 53	3	Mathematics 54	3
English 51	3	Mathematics 20	2
Architecture 40	1	Architecture 31	2
Art 6α	2	Art 6b	2
Engineering 22	3	History 10	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/> 17½		<hr style="width: 50%; margin: 0 auto;"/> 17½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Industrial Arts 40α	3	Architecture 2b*	3
Architecture 32	2	Architecture Arts 40b	3
Engineering 23*	3	Industrial Arts 40b	3
English 1α	3	Chemistry 53	3
Political Science 5	3	Engineering 1α	3
Architecture 1α*	2	Architecture 1b*	2
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/> 16½		<hr style="width: 50%; margin: 0 auto;"/> 16½

* Not required



HOME ECONOMICS

The courses in the home economics department of the College of the Sequoias have been planned both to satisfy professional and vocational objectives and to contribute to the general education of students.

Studies indicate that there will continue to be a shortage of qualified professional home economists in the foreseeable future. Job opportunities are varied and well-paid.

College of the Sequoias courses can lead to a Bachelor of Arts degree and secondary-teaching credential at a state college. The curriculum also provides courses for those planning to transfer to a university which offers the Bachelor of Science degree.

Professional and commercial career opportunities in addition to teaching include home advisor (adult or 4-H), dietetics, institutional management, home economics journalism, experimental foods, household equipment demonstration and testing, consumer education, public relations (foods, utility, pattern companies, etc.), interior decoration, nursery-school supervision, social service, public health, radio and TV.

For the terminal student desiring to major in home economics to broaden her general education, the department offers courses which enrich personal and family life through the development of basic concepts and skills. It is recommended that these students consult with the Business Division for elective areas in which they might acquire skills in supplementing the family income in time of need.

Transfer students who are not home economics majors are encouraged to take home economics classes for personal enrichment.

Transfer to University of California, at Davis: General Home Economics

FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 1α	5	Physiology 1α, 1c	5
Home Economics 12α	3	Psychology 1α	3
English 1α	3	English 1b	3
Home Economics 15	2	History 10	3
Home Economics 24	2	Art 6α	2
Physical Education	½	Physical Education	½
	15½		16½

SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Economics 1α	3	Economics 1b	3
Chemistry 8	3	Bacteriology 1	5
Sociology 1α	3	Political Science 5	3
Hygiene 1	2	Home Economics 26	2
English 5α or Philosophy 6	3	Home Economics 10b	3
Home Economics 10α	3	Physical Education	½
Physical Education	½		16½
	17½		

TRANSFER PROGRAM—STATE COLLEGES

FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a	3	English 1b	3
Home Economics 15	2	Home Economics 10b	3
Home Economics 24	2	Chemistry 2b	3
Chemistry 2a	3	Physical Education	½
Home Economics 10a	3	Psychology 1a	3
Physical Education	½	History 10	3
Art 6a	2		
	<hr/>		<hr/>
	15½		15½

SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Home Economics 12a	3	Home Economics 12b	3
Home Economics 16	3	Textiles 22	3
Nutrition 8	2	Home Economics 39	3
Political Science 5	3	Physical Education	½
Speech 1a	3	Home Economics 26	2
Physical Education	½	Electives	4-6
Hygiene	2		
	<hr/>		<hr/>
	16½	(General education units or Econ 1a or Soc. 1a recommended.)	15½

TERMINAL PROGRAM

FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English	3	English	3
Home Economics 24	3	Home Economics 51b	2
Home Economics 50a	2	Political Science 5 or 51	3
Home Economics 51a	2	Home Economics 26	2
Physical Education	½	Psychology 1a or 51	3
Electives	3	Physical Education	½
	<hr/>	Hygiene	2
(Home Ec. 15)	14½		
			<hr/>
			15½

SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Home Economics 16	3	Speech 1a	3
Home Economics 39	3	Home Economics 22	3
Nutrition 8	2	History 10 or 51	3
Art 19	2	Sociology 1a or Geography 2	3
Physical Education	½	Elective	3
Business 97	3	Physical Education	½
Elective	3		
	<hr/>		<hr/>
	16½		15½

(Recommended as elective: Bio. 1b or Chem. 53)

INDUSTRIAL EDUCATION

INDUSTRIAL ARTS

Suggested Program for the Credential in Industrial Arts

The student interested in a career in teaching industrial arts may complete his lower division requirements at the College of the Sequoias and transfer as a junior at the end of two years. The sample program shown parallels the lower division at Fresno State College and is acceptable for majors in this area. The student should carefully check the lower division requirements of other colleges to which he plans to transfer for minor variations.

FIRST YEAR

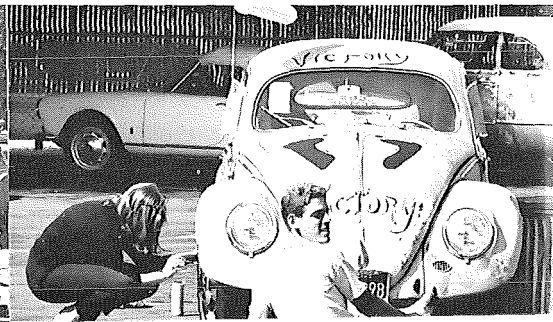
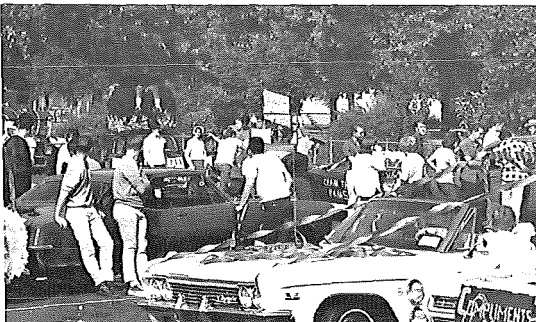
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Industrial Arts 1 (Basic Woodwork)	3	Engineering 22	3
Industrial Arts 11	3	Industrial Arts 9	3
English 1a	3	English 1b	3
History 10 (U. S.)	3	Political Science 5	
Science elective	3	Science elective	3
Physical Education	1/2	Physical Education	1/2
	<hr/>		<hr/>
	15 1/2		

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Gen. Education Elective	3	Hygiene	2
Industrial Arts 40a	3	Social Science elective	3
Psychology 1a	3	Mathematics elective	3
Science elective	3	Art or Music elective	2
Social Science elective	3	Speech 1a	3
Physical Education	1/2	Elective	3
	<hr/>	Physical Education	1/2
	15 1/2		<hr/>
			16 1/2

Suggested Electives: Physical Science 10, 12; Art 6a; Art 7a; Economics 1a; Sociology 1a; Mathematics 54; Mathematics 53; Industrial Arts 6b; Industrial Arts 10a; Industrial Arts 10b; Industrial Arts 40b.

Note: If Mathematics 51 (Algebra) and Mathematics 52 (Geometry) were not completed in high school, they will be required of all Fresno State transfers.



TRADES, INDUSTRIES, AND TECHNOLOGY

Automotive Technology

This program offers pre-employment vocational training for the student desiring full-time work in automotive service and repair. The two-year course of study includes lecture, demonstration, and laboratory instruction, all emphasizing fundamental mechanical principles. An instructor fully qualified both by shop experience as a master mechanic and by training as a teacher directs the daily three-hour classes. An advisory committee composed of employers and working mechanics will assist the college in maintaining a program geared to current needs of the trade.

The student will learn modern shop practices and techniques, working on current model units and assemblies supplied by local repair shops. His program is so scheduled that he may complete general education elective and required courses to qualify for the Associate in Arts degree.

Suggested Two-Year Program for Vocational Automotive Technology

FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Automotive Mechanics 55a	7	Automotive Mechanics 55b	7
Industrial Arts 40a	3	Industrial Arts 40b	3
Mathematics 50	2	English 50 or Speech 51	3
Industrial Arts 61	2	History 51 (U. S.)	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	14½		16½
SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Automotive Mechanics 56a	7	Automotive Mechanics 56b	7
Bus. 88 (Recordkeeping)	3	Bus. 70	3
Political Science 51	3	Electives	5
Hygiene 1	2	Physical Education	½
Physical Education	½		
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		15½

Mathematics 50 is required if tests indicate student needs additional training.

Suggested electives: Additional English or Speech, Industrial Arts 10a, 10b-c-d, Drafting, Business 72, Physical Science.



Suggested Two-Year Building Materials-Merchandising Program

This program is intended to prepare a student to enter employment in the retail building materials business. It is designed to allow a student of any level of academic achievement who is interested in this kind of employment to train for a job. The courses listed offer training in a wide variety of subject areas because of the diversity of the tasks which make a day's work in this particular industry. All students pursuing this major take certain courses closely related to building. A large part of the individual's program will be of his own choosing within limits of his previous training and abilities as indicated by his test scores. It is not anticipated that a high degree of proficiency will be developed while in school by this program. It is expected to prepare a good student to become an asset to his employer in a shorter time once he goes to work. A scholarship program is being developed by the Lumber Merchants Association of Northern California. For application information the student should contact a member of the advisory committee for this program listed in the front of this catalog.

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Bldg. Tr. 55a (Carpentry)	3	Bldg. Tr. 55b (Carpentry)	3
*Mathematics 50 (Arith) or	2	Arch 51b (Drawing)	2
*Business 95 (Arith)	3	Business 72 (Merchandising)....	3
Arch 51a (Drawing)	2	Ind. Arts 9 (Auto Mech)	3
English	3	Business 92 (Surv of Am. Bus.)	3
Business 71 (Creative Selling)	3	Physical Education	½
Hygiene 1	2		
Physical Education	½		14½
	14½/15½	*Determined by "N" score.	

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Bldg Tr 56a (Carpentry)	3	Bldg Tr 56b (Carpentry)	3
Business 93 (Surv. Bus Law)....	3	Political Science 51	3
History 51 (U. S.)	3	Business 76 (Cred & Collect)....	3
Business 88 (Reckpg Sm. Bus)	3	English/Speech	3
Elective	3	Elective	3
Physical Education	½	Physical Education	½
	15½		15½

Suggested Electives: Business 13, Business 18, Business 22, Business 91a-b, Business 98, Psychology 51, Architecture 1a-b, Architecture 2a, Architecture 31, Architecture 32, Art 6a-b, Art 31a-b.

Several workshops conducted by the Lumber Merchants Association each year will be an important addition to the training suggested above.

Building Trades

A training curriculum in the building trades, with carpentry as a basic course, has been set up as an integral unit of the regular two-year junior college program. Manipulative instruction in carpentry, painting, plumbing, and dry wall construction under the supervision of master craftsmen is given to approved students. Manipulative training is given each year on one major project, such as a residence.

Trade technical class instruction is given in fundamental and advanced construction procedures, in blueprint reading, in estimating and contracting procedure, and in structural stresses and strains including simple truss designs. Trade-related subjects, including drafting, mathematics, English, accounting, business law, job ethics, economics, history, political science, physical education, and hygiene are required as part of the training.

Upon leaving school or graduating, the student may ask the trade advisory committee of the California Division of Apprenticeship Standards to evaluate his training and experience toward the completion of an apprenticeship and the attainment of a journeyman's status in the carpentry trade.

A scholarship paying all student expenses is awarded each year by the Building Trades Alumni Association. Students may apply either directly through the Building Trades Alumni Association or through their high-school shop teachers.

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Building Trades 55a	3	Building Trades 56b	3
Building Trades 65a	6	Building Trades 65b	6
Architecture 51a	2	Architecture 51b	2
Hygiene 1	2	English	3
*Mathematics 50 or Elective ..	2	Physical Education	½
Physical Education	½		
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	15½		14½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Building Trades 56a	3	Building Trades 56b	3
Building Trades 66a	6	Building Trades 66b	6
History 51	3	Political Science 51	3
Business 88	3	Electives	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		15½

* Mathematics 50 is required of students who need additional instruction in mathematics as determined by proper standardized tests.

Electronic Technology

This program offers pre-employment training for the student interested in any of the many phases of electronic technology. The two-year course of study, combining lecture and laboratory instruction by a master technician, includes theory and analysis of basic electric and electronic circuits and testing equipment.

In accordance with his previous preparation, personal objectives, and ability, the student may prepare either for more advanced study or for immediate employment in communications or research development. His vocational class is so scheduled that he may complete additional general education electives and required courses to qualify for the Associate in Arts degree.

Upon completion of this program the student should be prepared to pass the examination required for a RADIOTELEPHONE SECOND CLASS OPERATOR'S LICENSE administered by the Federal Communications Commission.

Suggested Two-Year Program for Electronic Technology

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Electronics 55α	3	Electronics 55b	3
Electronics 65α	6	Electronics 65b	6
Mathematics 54	3	Mathematics 19-20	2
Physical Science 10	3	Physical Science 12	3
Physical Education	½	Physical Education	½
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	15½		14½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Electronics 56α	3	Electronics 56b	3
Electronics 66α	6	Electronics 66b	6
English	3	Political Science 51	3
History 51	3	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		14½

Suggested electives: Math. 1α-1b, Chem. 2α, English 1α, Speech 1α, Political Science 5, History 10, Business 88, Business 70.

Students who have not had high-school algebra and geometry will not be permitted to enter the Vocational Electronics Program until they have made up the deficiency, completing Math. 51, 52 and 53.



METAL TRADES

The metal shop curriculum comprises a series of shop, mathematics (accounting) and drawing courses which will prepare the student for placement in a machine shop, a related mechanical trade, for transfer to a four year college or will supply him with a practical understanding of our industrialized society.

Emphasis is on blueprint reading, welding, foundry, sheet metal, and machine shop.

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Industrial Arts 40a	3	Industrial Arts 40b	3
*Engineering 52	2	Engineering 22	3
Mathematics 50	2	Political Science 51	3
English	3	Speech 51	3
History 51	3	Electives	3
Electives	2	Physical Education	½
Physical Education	½		
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	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Industrial Arts 6a	3	Industrial Arts 6b	3
Industrial Arts 10a	3	Industrial Arts 10c	3
Industrial Arts 10b	3	Industrial Arts 10d	3
Business 88	3	Hygiene 1	2
Electives	4	Electives	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	16½		14½

* Students who have had high school mechanical drawing equivalent to Engineering 52 may substitute two additional elective units for this course. Students who wish to specialize in machine shop should take Industrial Arts 10a-b in place of Industrial Arts 40a-b.



MEDICINE

University of California at San Francisco

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 1a	5	Chemistry 1b	5
English 1a or Speech 1a	3	English 1b or Speech 1b	3
Foreign Language	4	Foreign Language	4
History 10	3	Political Science 5	3
Physical Education	½	Physical Education	½
	<hr/>		<hr/>
	15½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Zoology 1a	4	Zoology 1b	4
Chemistry 8	3	Chemistry 5	3
Chemistry 9	3	Hygiene 5	2
Philosophy 6	3	Philosophy 7	3
English 5a or History 4a	3	English 5b or History 4b	3
Physical Education	½	Physical Education	½
	<hr/>		<hr/>
	16½		15½



University of Southern California

Suggested Program

FIRST YEAR

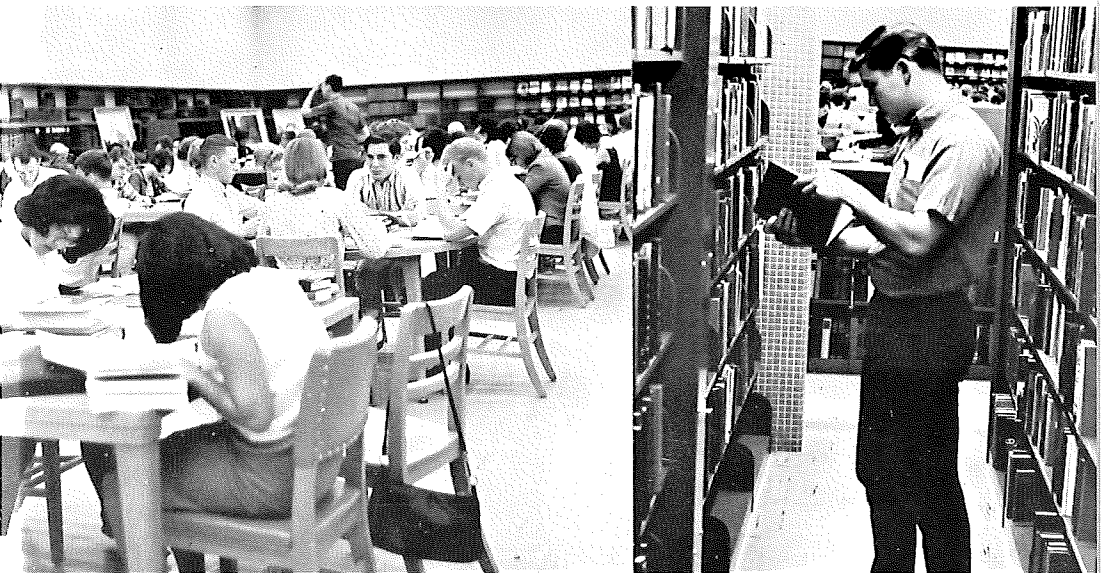
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 1a	5	Chemistry 1b	5
English 1a	3	English 1b	3
Foreign Language*	4	Foreign Language*	4
Zoology 1a	4	Zoology 1b	4
Physical Education	½	Physical Education	½
	<hr style="width: 20%; margin: 0 auto;"/>		<hr style="width: 20%; margin: 0 auto;"/>
	16½		16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Psychology 1a or Philosophy 6a	3	Chemistry 5	3
History 4a	3	History 4b	3
Physics 2a	4	Physics 2b	4
History 10	3	Political Science 5	3
Art 19 or Music 10	2	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr style="width: 20%; margin: 0 auto;"/>		<hr style="width: 20%; margin: 0 auto;"/>
	15½		15½

* Continuation of language begun in high school; French or German recommended.

The University offers organic chemistry in upper division but may accept Chemistry 8 and 9 for credit toward pre-medical requirements. Consult your counselor.



MUSIC

The following courses are offered to the student majoring in music to enable him to obtain the Associate in Arts degree and complete a program that is comparable to the first two years of many other institutions. Besides the music courses listed below, the music major should carry 45 units of general education work in line with the graduation requirements established by the College of the Sequoias and the lower-division program of the institution to which they may wish to transfer.

Music Transfer to State Colleges

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Music 4a (Musicianship)	1	Music 4b (Musicianship)	1
Music 12a (Beginning Theory) ..	3	Music 12b (Beginning Theory) ..	3
Music 7, 8, 18, 19*	1	Music 7, 8, 18, 19*	1
English 1a	3	English 1b	3
Science	3	Political Science 5	3
History 10	3	Science	3
Electives	2	Physical Education	½
Physical Education	½		—
	—————		14½
	16½		



SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Music 5a (Adv. Musicianship)..	1	Music 5b (Adv. Musicianship)..	1
Music 14a (Adv., Theory)	3	Music 14b (Adv. Theory)	3
Music 7, 8, 18, 19*	1	Music 7, 8, 18, 19*	1
Speech 1a	3	Psychology 1a	3
Science	3	Hygiene 1	2
Social Science Elective	3	Elective	3
Music 16a	3	Music 16b	3
Physical Education	½	Physical Education	½
	<hr style="width: 10%; margin: 0 auto;"/>		<hr style="width: 10%; margin: 0 auto;"/>
	17½		16½

All music majors are required to participate in at least one music ensemble group per semester according to their individual interests. Choose from Music 7 abcd—orchestra, Music 8 abcd—choir, Music 18ab—marching band and Music 19ab—concert band.

It is recommended that music majors choose electives from the following courses: Music 1a-b—beginning strings, class instruction; Music 3ab—beginning woodwinds, class instruction; Music 6ab—Beginning brass and percussion, class instruction; Music 20—opera appreciation; Music 21—beginning piano, class instruction; Music 22a—intermediate piano, class instruction; and Music 30 abcd, elementary voice, class instruction. Music majors should not take Music 10.



NURSES' TRAINING

Students may obtain nursing education in (a) hospitals operated by universities (University of California, University of California at Los Angeles, Stanford); (b) hospitals affiliated with state colleges; or (c) hospital training schools. For admission to a university program, the student must obtain regular junior standing in that university and must complete pre-nursing courses. Both the Bachelor of Science degree and the Registered Nurse Certificate will be granted upon the completion of three years of university study after obtaining junior standing.

For admission to a state-college program, the student may complete the first year in the junior college, but should then transfer for completion of three additional years of training. The Bachelor of Science degree and the Registered Nurse Certificate will be awarded upon completion of four years of study provided the last three years are completed in the state college.

Before admission to hospital training schools, the student is advised to complete at least thirty units of a college pre-nursing course with a "C" average.

A thirty-six months training program is required in most schools of nursing by the California Board of Nurse Examiners. An exception is made in some schools which allow nine months time credit for work completed in the junior college.

An applicant must be at least eighteen years of age, must be a high school graduate, and must have completed satisfactorily a course in general chemistry. Most schools of nursing are now requiring at least a year, and recommending two years, of college work for entrance. This preparation should include science, psychology, and English.

Students are urged to visit schools of nursing in order to obtain details of hospital school requirements and to make their choice before enrolling in college courses. Many hospital schools have specific subject requirements which must be met.



University of California - School of Nursing

The School of Nursing offers a three-year course leading to a Bachelor of Science degree, and a certificate of nursing based upon two years of college pre-nursing work.

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a	3	English 1b	3
Foreign Language	4	Foreign Language	4
Anatomy 1	4	Chemistry 1a	5
History 10	3	Political Science 5.....	3
Nutrition 8	2	Physical Education	½
Physical Education	½		
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	16½		15½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Bacteriology 2	4	Psychology 1a	3
Sociology 1a	3	Physiology 1a and 1c	5
English 5a or Philosophy 6a.....	3	English 5b or Philosophy 6b	3
History 4a	3	History 4b	3
Foreign Language	4	Hygiene 1	2
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	17½		16½

Fresno State College Nursing Curriculum

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 2a	3	Chemistry 2b	3
Anatomy 1	4	Physiology 1a, 1c	4
History 4a	3	Psychology 1a	3
Sociology 1a	3	English 1a	3
Nutrition 8	2	History 10	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		16½

Hospital Training Schools

Either of the following programs is acceptable foundation work for the training course in a hospital school of nursing. The two-year program is recommended.

Suggested Two-Year Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Anatomy 1	4	Hygiene 1	2
History 51	3	Political Science 51	3
English	3	English	3
Psychology 51 or 1α	3	Chemistry 53	3
Electives	2	Electives	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		14½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Bacteriology 2	4	Physiology 1α, 1c	5
Psychology 1α or 33	3	Sociology 1b or Psychology 39	3
Sociology 1α	3	Speech 51	3
Nutrition 8	2	Electives	4
Electives	2	Physical Education	½
Physical Education	½		<hr style="width: 50%; margin: 0 auto;"/>
	<hr style="width: 50%; margin: 0 auto;"/>		15½
	14½		

Suggested One-Year Program

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Zoology 1α	4	Zoology 1b	4
Anatomy 1	4	Physiology 1α, 1c	4
English	3	Psychology 51 or 1α	3
Hygiene 1	2	Psychology 39	3
Nutrition 8	2	Electives	2
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15½		16½



VOCATIONAL NURSING

To extend the nursing services needed in hospitals and homes, California has provided for the examining and licensing of trained vocational nurses. Following the completion of the College of the Sequoias full-time, one and one-half year program, a graduate of this program is recommended by the college to be examined and licensed. Offered on the Exeter campus in association with local area hospitals, this program is also recognized by the college as the equivalent of 45 terminal units towards completion of the Associate in Arts degree.

Applications, obtainable from the office of the coordinator of industry and technology, must be submitted by November 1, 1966, to ensure consideration for enrollment in January, 1967. Prospective students also will be required to complete health and aptitude tests to determine their eligibility for enrollment.

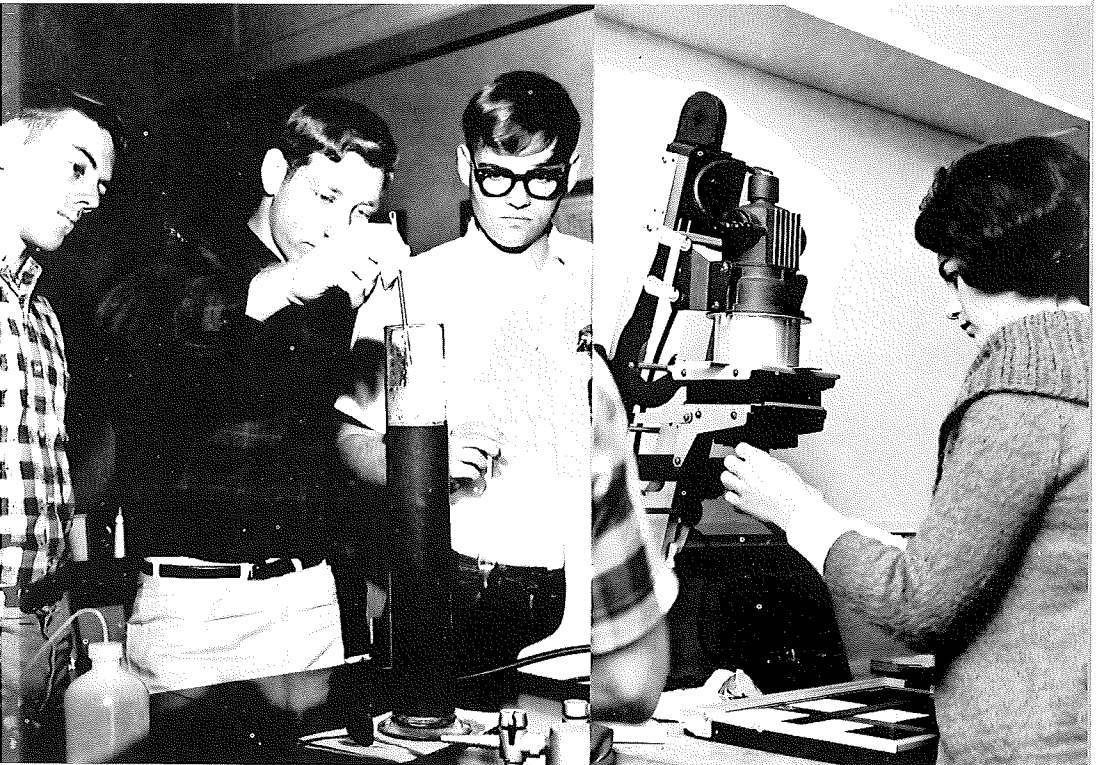
Program

VN 50 First Semester — 17 units.

VN 51 Second Semester (prerequisite - VN 50) — 14 units.

VN 52 Third Semester (prerequisites - VN 50 and 51) — 14 units.

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PHARMACY

University of California, Medical Center, San Francisco

The School of Pharmacy offers a four-year course leading to the degree of Doctor of Pharmacy based upon two years of college pre-pharmacy work.

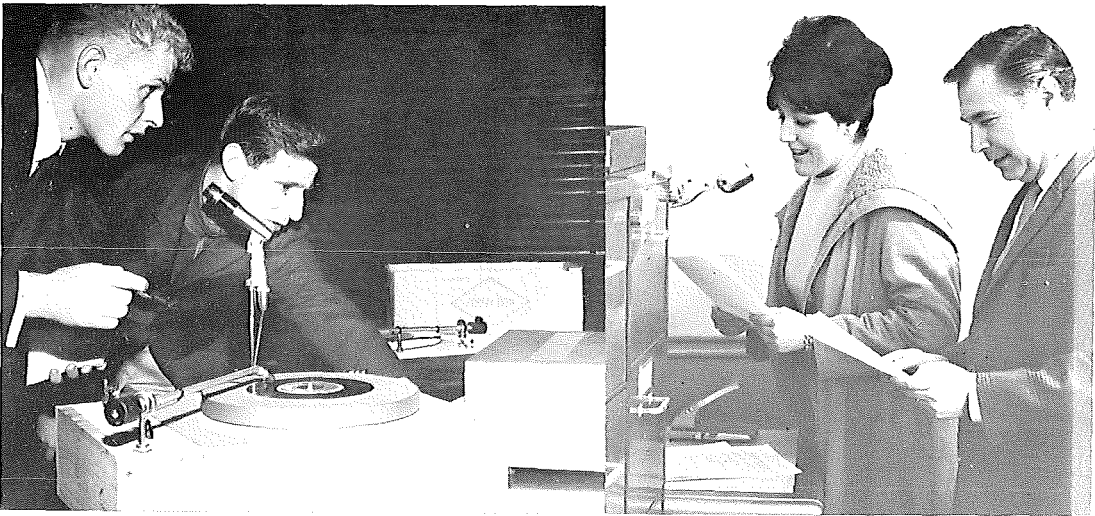
Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a or Speech 1a	3	English 1b or Speech 1b	3
Chemistry 1a	5	Chemistry 1b	5
Economics 1a or Psychology 1a	3	Economics 1b or Psychology 33	3
Hygiene 1	2	Botany 1	5
History 10	3	Physical Education	½
Physical Education	½		
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	16½		16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Zoology 1a	4	Zoology 1b	4
Physics 2a	4	Physics 2b	4
Mathematics 1a	4	Mathematics 1b	4
Elective	2	Political Science 5	3
Physical Education	½	Physical Education	½
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	14½		15½



University of Southern California

The School of Pharmacy offers a four-year course leading to the degree of Doctor of Pharmacy, based upon two years of college pre-pharmacy work.

Suggested Program

FIRST YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Chemistry 1a	5	Chemistry 1b	5
English 1a	3	English 1b	3
History 4a	3	History 4b	3
Political Science 5	3	History 10	3
Physical Education	$\frac{1}{2}$	Hygiene 1	2
	<hr style="width: 50%; margin: 0 auto;"/>	Physical Education	$\frac{1}{2}$
	14½		<hr style="width: 50%; margin: 0 auto;"/>
			16½

SECOND YEAR

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Zoology 1a	4	Zoology 1b	4
Economics 1a	3	*Economics 1b	3
Physics 2a	4	Physics 2b	4
Psychology 1a	3	Electives	4
Elective	2	Physical Education	$\frac{1}{2}$
Physical Education	$\frac{1}{2}$		<hr style="width: 50%; margin: 0 auto;"/>
	<hr style="width: 50%; margin: 0 auto;"/>		15½
	16½		

Mathematics 53 and Mathematics 54 must be included in the pre-pharmacy program if they were not completed in high school, and will receive transfer credit. Typing is required if not taken in high school.

* A social science elective may be substituted for Economics 1b.



PHYSICAL EDUCATION

Students majoring in physical education are encouraged to study carefully the course requirements in the college or university to which they expect to transfer in order that they may complete the proper lower division requirements in the junior college. The subjects listed below are suggested.

*Physical Education for Men — State Colleges

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a-1b	3 3	Speech 1a	3
History 10	3	Anatomy 1	4
Political Science 5		Physiology 1a, 1c	4
**Chemistry 53 or 2a, or		Art 19 or Music 10	2
Physical Science 12	3	Psychology 1a	3
Fundamentals of Admin.-		Fundamentals of	
Golf 45c	1	Aquatics 45a	1
Fundamentals of Tennis 45b	1	Fundamentals of	
Orientation in Physical		Folk - Square 45d	1
Education 31	2	Hygiene 3	1
Hygiene 1	2	Electives	6 5
Sociology 1a-1b	3 3	Physical Education	½ ½
Biology 1a or 1b	3		½ ½
Physical Education	½ ½		16 16
	½ ½		
	16 16		

*Physical Education for Women — State Colleges

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 1a-1b	3 3	Speech 1a	3
History 10	3	Anatomy 1	4
Political Science 5	3	Physiology 1a, 1c	4
**Chemistry 53 or 2a	3	Art 19 or Music 10	2
Fundamentals of Admin.-		Psychology 1a	3
Golf 45c	1	Fundamentals of	
Fundamentals of Rhythm		Folk - Square 45d	1
and Dance 30a	2	Fundamentals of	
Orientation in Physical		Team Sports 30bc	2 2
Education 31	2	Introduction to Aquatics 45a	2
Hygiene 1	2	Hygiene 3	1
Sociology 1a-1b	3 3	Electives	5
Electives	2	Physical Education	½ ½
Physical Education	½ ½		½ ½
	½ ½		16 15
	16 16		

* It is recommended that physical education majors take two activities courses each semester.

Fresno State College requires Chemistry 2a **and 2b unless student has completed Physiology 1a, 1c.

POLICE SCIENCE

This curriculum is designed to train men and women for police service in law enforcement agencies.

In addition to the general requirements for admission to the college, the student must possess certain basic personality and intelligence qualifications, a part of which is a satisfactory scholarship record in high school; information indicating above-average social adjustment as shown by a letter from his hometown law-enforcement official which verifies no significant police record; and satisfactory demonstration of aptitude on college-entrance examinations.

The two-year program listed below is recommended for those students who do not plan to continue their education at a higher level. The completed program will satisfy requirements for certification set by the State Commission on Peace Officers' Standards and Training. These courses are shown below by asterisk. Transfer students should consult their counselors regarding specific requirements of the four-year school of their choice.

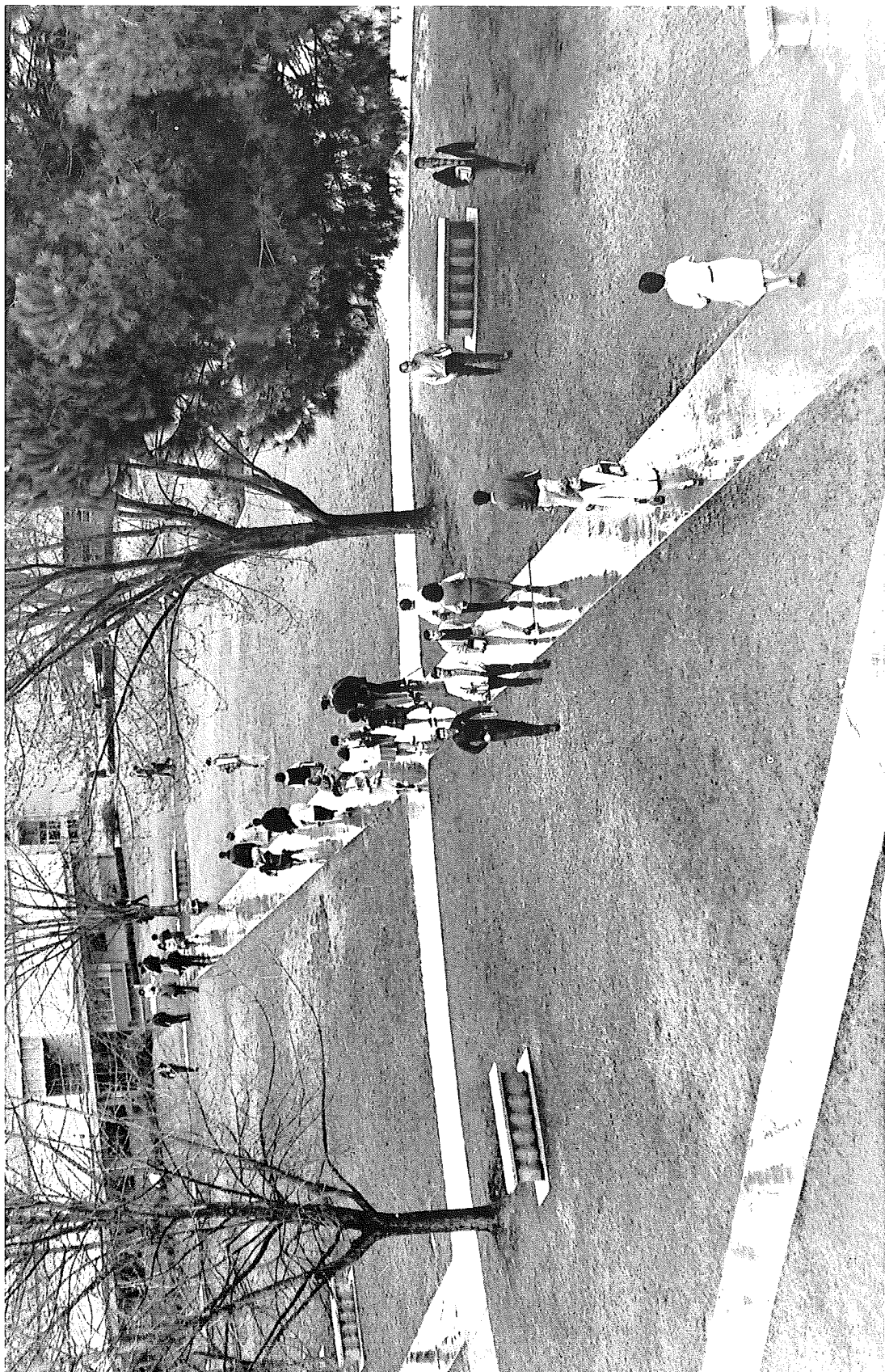
Satisfactory completion of Business 60a or Business 60b or an equivalency test is a requirement of all first-semester students. Recommended electives include Sociology 1a-1b, Photography 1a, and Business 96c.

Prerequisites for all courses should be checked prior to enrollment.

Suggested Two-Year Terminal Program

FIRST YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
English 51 (1a)	3	Speech 51 (1a)	3
History 51 (10)	3	Political Science 51 (5)	3
*Police 1	3	*Police 20	3
*Police 10	3	*Police 40	3
*Hygiene 3	3	Electives	3
Business 60a or 60b	2	Physical Education 9a or 13a	½
Physical Education 17a	½		-----
	-----		15½
	15½		

SECOND YEAR			
FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Psychology 51 (1a)	3	Natural Science	3
Hygiene 1	2	*Police 30	3
*Police 22	3	*Police 43b	3
*Police 43a	3	*Police 45b	1
*Police 45a	1	Electives	6
Electives	3	*Physical Education 18b	½
*Physical Education 18a	½		-----
	-----		16½
	16½		



DIVISION OF APPLIED ARTS AND SCIENCES

AGRICULTURE

AGRICULTURE 50—BASIC FARM MECHANICS (2) I, II.

Mechanical skills in the field of agriculture. For students who have not had at least two years of high school agriculture mechanics. Selection, care and use of common farm tools.

AGRICULTURE 51—FARM MACHINERY (3) II.

A course in the operation, care and repair of farm machinery with demonstrations and laboratory work on tillage planting, and harvesting machinery.

AGRICULTURE 52—IRRIGATION (3) I.

Fundamental principles and practices of irrigation. Water transport and measurement. Soil-moisture measurement and soil-moisture relationships. Water pumps and their relation to irrigation. Farm irrigation distribution systems.

AGRICULTURE 53—FARM POWER (3) I.

Operation and maintenance of farm tractors; service, maintenance and minor repairs of gas and diesel type engines.

AGRICULTURE 54—FARM SURVEYING (2) II.

Use of the level, transit, and steel tape; practice in laying out buildings, profile leveling for irrigation and drainage, land leveling, and field measurement.

AGRICULTURE 55a-55b-55c-55d—PROJECT CONSTRUCTION (3-3) I, II.

Characteristics, types and costs of construction materials, and their use in farm equipment and buildings. The application of these principles to build individually owned projects in the shop.

AGRICULTURE 56a-56b—FARM STRUCTURES (3-3) II.

A course in planning, designing, and building various types of farm buildings necessary to agricultural enterprises in the San Joaquin Valley.

AGRICULTURE 57—AGRICULTURAL WELDING (2) II.

Arc and oxyacetylene welding as used in construction and repair in the farm shop. Includes brazing, burning and hard facing.

AGRICULTURE 60—ELEMENTS OF DAIRYING (4) I.

A survey of the field of dairying. Study of approved practices in the San Joaquin Valley, including selection, feeding, and management.

AGRICULTURE 63—MILK PRODUCTION (3) II.

Factors affecting milk production. Practice in milk production skills. Dairy production problems and methods.

AGRICULTURE 64—DAIRY MANAGEMENT (2) II.

A study of the feeding and management of dairy cattle, record keeping, developing a herd, and raising replacement stock.

AGRICULTURE 65—FEEDS AND FEEDING (4) II.

A study of the constituents of feeds, the digestive system, and the compiling of rations for livestock.

AGRICULTURE 71—ANIMAL DISEASES AND SANITATION (3) II.

Study of the common diseases and parasites of livestock. Cause, symptoms, prevention, and treatment of common diseases and parasites of livestock.

AGRICULTURE 72—SHEEP PRODUCTION (2) II.

A study of market sheep production. Selection of breeding stock, feeders and equipment. Care and management of flock.

AGRICULTURE 74—FITTING AND SHOWING (1) I.

A course in the methods of fitting and showing cattle, sheep, and hogs for sale and exhibition.

AGRICULTURE 75—BEEF PRODUCTION (3) II.

A study of market beef production. Selection of breeding stock, feeders, and equipment. Care and management of the herd.

AGRICULTURE 76—SWINE PRODUCTION (3) I.

A study of market swine production. Selection of breeding stock, feeders, and equipment. Care and management of the herd.

AGRICULTURE 77—POULTRY BROODING (2) II.

A study of brooding principles and practices, growth of the chick, care and feeding of young stock.

AGRICULTURE 78—EGG PRODUCTION (2) II.

A study of the selection, feeding, sanitation, and management of the laying flock.

AGRICULTURE 81—PLANT PROPAGATION (2) II.

Principles of plant propagation by seed, cutting, layering, grafting, and budding.

AGRICULTURE 82—ECONOMIC ENTOMOLOGY (3) I, E.

General study of western insects; life cycles, economic importance and control.

AGRICULTURE 83—FERTILIZERS (3) II.

A study of fertilizers and soil amendments, their properties, methods of application, plant nutrient requirements, interaction with soils and plants, and visual recognition of typical deficiencies. Ag. 87 is recommended as a prerequisite.

AGRICULTURE 84—FORAGE CROPS (3) II.

A study of the common forage crops: alfalfa, permanent pastures, silages.

AGRICULTURE 85—WEEDS (3) II.

Identification; cultural, chemical and biological control or prevention of the major weeds affecting crops and livestock in the Tulare-Kings Counties areas.

AGRICULTURE 86—HORTICULTURE (3) I.

Walnut, olive, pomegranite, fig, and persimmon production. Planting and establishing an orchard. Cultural practices including pruning, spraying, and harvesting of deciduous fruits.

AGRICULTURE 87—SOILS (3) I.

A study of values and management of different types of soils.

AGRICULTURE 88—CITRUS FRUITS (4) I.

A study of the cultural practices necessary to citrus production.

AGRICULTURE 89—TRUCK CROP PRODUCTION (3) II.

Principles involved in the production, harvesting, and marketing of truck crops grown in the San Joaquin Valley.

AGRICULTURE 90—FARM MANAGEMENT (4) I.

A study of prices, economic trends, budgets, credits and choice of enterprises.

AGRICULTURE 91—FARM ACCOUNTING (3) II.

A study of farm record keeping and analysis, including inventories, production records, tax records, financial and annual statements.

AGRICULTURE 92—AGRICULTURAL MATHEMATICS (2) I.

Procedures, problems in soils, dairy, horticulture, poultry, and feeds; equations, discounts and interest, area volumes and proportions.

AGRICULTURE 93—MARKETING OF FARM PRODUCTS (3) I.

Study of determinants of agricultural markets. Organization and operation of agricultural markets. Regulatory agencies, cooperatives, and integration.

AGRONOMY 1—INTRODUCTION TO AGRONOMY (3) II.

The principles and practices of field crop production and soil management. A survey of the production and uses of field crops including cotton, sugar beets, cereals.

ANIMAL HUSBANDRY 7—INTRODUCTION TO ANIMAL HUSBANDRY (4) I.

A survey course of the sources of the world's supply of animal products. The origin, characteristics, and adaptation of the more important breeds of livestock and dairy.

ANIMAL HUSBANDRY 8—LIVESTOCK JUDGING AND SELECTION (1) I.

A study of the animal form in relation to its various functions.

POMOLOGY 2—PRINCIPLES OF FRUIT GROWING (3) II.

An introduction to the principles underlying the behavior of fruit trees. Study of climatic influences, varieties, rootstocks, and elementary production practices. Special emphasis on peaches, nectarines, apples, and plums.

VITICULTURE 1—INTRODUCTION TO VITICULTURE (3) I.

A survey of the grape industry, grape varieties and economics, with a study of the cultural practices in production.



DIVISION OF BUSINESS

Pre-Business Administration

BUSINESS 1a-1b—PRINCIPLES OF ACCOUNTING (4-4) Yr. E.

Lecture and discussion 3 hours; laboratory 2 hours.

A college transfer course covering the basic theory of accounting based upon the double-entry philosophy. Particular attention is devoted to the basic business procedures of gathering and statistically classifying accounting data for statement analysis and interpretation. A comprehensive coverage of assets, liabilities, owner's equity, revenue and expense accounts is made and a limited consideration is given to specialized phases of accounting.

Prerequisite: **Sophomore** standing is recommended.

BUSINESS 10—MODERN BUSINESS (3) I, II.

An introductory college transfer course which surveys the structure and management of American business as a free-enterprise system and prepares the student for more advanced study in the components of the business field.

This course is not open to the student who has had Business 92.

BUSINESS 13—BUSINESS CONSUMER PROBLEMS (2) II.

A college transfer survey course covering the problems of the consumer and the principles of consumer buying, budgeting, and investing. Departmental and professional specialists will present shopping and buying techniques useful to the consumer and will discuss the methods of analyzing advertising.

BUSINESS 18—BUSINESS LAW (3) I, II.

Basic concepts of American business law, contracts, agency, negotiable instruments, sales, and courts and legal procedure.

Prerequisite: **Sophomore** standing recommended.

BUSINESS 22—BUSINESS MATHEMATICS (2) II.

A condensed treatment of fractions, decimals, percentages, interest, discount, installment buying, and personal borrowing. An introduction to payrolls, wage-payment system, statistical graphs, and merchandise pricing.

Prerequisite: Satisfactory score in the mathematics test or "C" grade or better in Business 95. **Sophomore** standing recommended.

Real Estate

BUSINESS 40a—REAL ESTATE PRINCIPLES (3) I, E.

A one-semester course covering the economics of land ownership and use, in which a study is made of the legal principles and rules pertaining to real estate property. To assist those preparing for the salesman and broker examinations, particular attention will be given to California real estate law.

BUSINESS 40b—REAL ESTATE PRACTICE (3) II, E.

A course to provide students with a broad overview of the real estate field and to provide an understanding of the ethical standards of real estate practice, which will include listing and its valuation, advertising and selling, real estate financing, and professional and public relations.

BUSINESS 41—REAL ESTATE FINANCE (3) E.

A course covering the means of financing real estate transactions, legislative provisions regarding real estate financing, and the various taxation aspects of real estate finance.

BUSINESS 42—LEGAL ASPECTS OF REAL ESTATE (3) E.

The practical applications of California real estate law, utilizing illustrative cases and examples and designed to help avoid legal difficulties arising from real estate transactions, instruments, zoning, and planning.

Prerequisite: Business 40α.

BUSINESS 43—REAL ESTATE ECONOMICS (3) E.

A practical study of the economic aspects of real estate designed to provide a grasp of the dynamic economic conditions and other factors underlying the real estate business. It is especially intended as a background course and a prerequisite for more practical and specialized courses offered in the Real Estate Certificate Program.

BUSINESS 44—CITY AND REGIONAL PLANNING (3) E.

The introductory course to provide a broad background in the history and development of urban areas and modern planning principles.

Prerequisite: Basic sequence in real estate or business experience in the field.

BUSINESS 45α—REAL ESTATE APPRAISAL (3) E.

An introductory course designed to teach students the appraisal techniques involved in both residential and commercial properties and the methods employed in the determination of loan, market, and insurance values.

BUSINESS 45b—ADVANCED REAL ESTATE APPRAISAL II (URBAN) (3) E.

A continuation of Business 45α, real estate appraisal of multi-family dwellings, apartment houses, commercial and special purpose property, covering residual techniques, eminent domain proceeding, taxation, and land and vacant lot valuation.

Prerequisites: Business 40α and Business 45α; or equivalent training or experience in appraisal.

BUSINESS 45c—ADVANCED REAL ESTATE APPRAISAL III (Rural) (3) E.

An advanced course in real estate appraisal of rural properties. Includes row-crop, orchard, and livestock properties.

Prerequisite: Business 40α and Business 45α or equivalent training or experience in appraisal.

BUSINESS 47—PLANNING CONSTRUCTION AND DESIGN (3) E.

A comprehensive, nontechnical course to familiarize real estate licensees with their product—site selection and development, materials, costs, color, building codes, and the services of the architect.

BUSINESS 48—BASIC PRINCIPLES OF ESCROW (2) E.

A basic course intended to explain the methods and techniques of escrow procedure for various types of business transactions with emphasis on real estate. Particular attention is given to legal and ethical responsibilities of persons engaged in escrow work. The material covered should be of value to all those either involved directly or indirectly in the escrow industry.

Secretarial and Clerical

BUSINESS 50a-50b—ELEMENTARY SHORTHAND (5-5) Yr. E.

Business 50a, an elementary course in the theory and technique of Gregg shorthand, is open for credit only to those students who have had **no** previous instruction in shorthand. Students achieving a speed of 60 words per minute will transfer to Business 52a; those achieving higher speeds to Business 52b.

Typewriting must be taken concurrently with Business 50a unless the student makes a satisfactory score on the typewriting placement test.

Prerequisite for 50a: Score equal to English 51 on the English placement test.

Prerequisite for 50b: "C" or better in Business 50a.

BUSINESS 51a—INTERMEDIATE SHORTHAND (5) I.

Business 51a is a remedial shorthand course for those students who need review in the theory and techniques of Gregg shorthand before continuing in the second-year shorthand class. Speed and accuracy in reading, writing and transcribing shorthand notes are emphasized. Those students achieving a speed of 80 words per minute will transfer to Business 52b-53b.

Prerequisite: A satisfactory score on the shorthand and typewriting placement tests.

BUSINESS 52a-52b—ADVANCED SHORTHAND DICTATION (4-4) Yr.

A second-year shorthand course where emphasis is placed upon building vocational shorthand vocabularies. The objective of this course is a shorthand dictation speed of 120 words per minute with fast and accurate transcription.

Business 53a-53b must be taken concurrently.

Prerequisite: A satisfactory score on the shorthand and typewriting placement tests.

BUSINESS 53a-53b—ADVANCED SHORTHAND TRANSCRIPTION (2-2) Yr.

A required transcription course which must be taken concurrently with Business 52a-52b. Emphasis is placed upon the transcription of the vocational dictation given in the shorthand class and upon improvement of typewriting speeds. Office standards are maintained.

Prerequisite: A satisfactory score on the shorthand and typewriting placement tests.

***BUSINESS 55a—LEGAL OFFICE PROCEDURES (3) I.**

Comprehensive training for the highly specialized work of the legal office is provided by this course. Background information to provide a functioning knowledge of the sources and divisions of the law, the organization of the courts and court procedures, the preparation and execution of many kinds of legal instruments, the maintenance of proper legal records, and a working knowledge of legal reference materials are supplemented by training in, and the practical application of those skills associated with secretarial work.

Prerequisite: Permission of the instructor.

*Not offered in 1966-7.

***BUSINESS 55b—LEGAL SECRETARIAL PROCEDURES (3) II.**

Specialized training which seeks to develop the secretarial skills necessary for employment in the modern law office. Speed in legal dictation and accuracy of transcription are based upon the working knowledge of legal terms and phrases and the law vocabulary basic to this course. Dictation and transcription of legal correspondence, legal documents, pleadings, etc., are used for building shorthand speed.

Prerequisites: Business 55a; Business 52a-b (or shorthand speed of 100 wpm); typewriting speed of 50 wpm; Business 69.

*Not offered in 1966-7.

BUSINESS 56a—MEDICAL OFFICE PROCEDURES (3) I.

A training course for those desiring to become medical assistants, providing preparation for such clerical office duties as making appointments, receiving patients, setting credit terms and collecting payments, record keeping, typing correspondence, case histories, and other medical reports, and the preparation of insurance forms, as well as for those nurse and laboratory tasks which may, within the limitations of the state law, be performed by the medical assistant.

Prerequisite: Permission of the instructor.

BUSINESS 56b—MEDICAL SECRETARIAL PROCEDURES (3) II.

Specialized training to develop the secretarial skills necessary for employment in the doctor's office. Speed in medical dictation and accuracy of transcription are based upon the working knowledge of medical terms and phrases and the medical vocabulary presented in this course. Skill-building practice is given in medical dictation which includes correspondence, case histories, and other technical medical materials.

Prerequisite: Business 56a; Business 52a-b (or a shorthand speed of 100 wpm); a typing speed of 50 wpm; and Business 69.

BUSINESS 57—REFRESHER COURSE IN SHORTHAND (2) E.

The purpose of this review course is to permit the student who has had previous work in Gregg shorthand, but has not had an opportunity to practice it recently, to increase his speed in recording and transcribing. This course is not included in the regular shorthand sequence.

BUSINESS 58 α —OFFICE PROCEDURES (3) I, II.

A comprehensive course providing training in office techniques and duties through realistic office assignments. The training program prepares students for initial office jobs and lays the foundation for job growth.

Note: this course is not open to those students who have had previous training in an office practice class.

Prerequisite: Satisfactory typewriting speed.

BUSINESS 58b—EXECUTIVE SECRETARIAL PROCEDURES (3) I, II.

This executive secretarial course is designed to present a general background of office procedures and administration, to relate the human and technical sides of office operation, and to provide an administrative approach as preparation for ultimate advancement into office management. The projects presented for solution are based on specific office problems.

Prerequisite: Business 58 α or the completion in high school of an office practice class.

Satisfactory shorthand and typewriting speeds.

BUSINESS 58c—CHARM (I) I, II.

A course carefully tailored to the needs of the career girl—to her problems, time limitations, financial status, and interests—and designed specifically to help her make the most of her potentialities so that she can achieve success both in her work and in her personal life.

Prerequisite: This course is open only to women business majors.

BUSINESS 59—RECORDS MANAGEMENT (2) I, II.

A business management course, presenting a quick overview of the scope of, and opportunities in, the field of filing, the methods for processing, storing, retrieving, and restoring the various kinds of records that business must keep, which provides practice in the operation of the most commonly used filing systems and methods.

This course is recommended for **all** business majors.

BUSINESS 60 α —ELEMENTARY TYPEWRITING (2) I, II, E.

An elementary course covering the fundamentals of typewriting. Stress is placed upon technique, accuracy, and posture. Simple business forms, business letters, and social forms are included in the work.

Business 60 α is open only to those students who have had **no** previous instruction in typewriting.

BUSINESS 60b—INTERMEDIATE TYPEWRITING (2) I, II, E.

A remedial course offering a review of the fundamentals of typewriting for those students who have had previous typewriting instruction but who do not obtain a satisfactory score on the typewriting placement test.

Typical office materials are used for skill building so as to enable the student to reach the required speed level for entrance into Business 61 α .

Prerequisite: Business 60 α or previous instruction in typewriting.

BUSINESS 61a—ADVANCED TYPEWRITING (2) I, E.

A second year typewriting course open to all students who make a satisfactory score on the typewriting placement test.

Typical office materials used in the typewriting problems include business letters, legal documents, and other business forms and papers. The emphasis in this course is upon skill building.

Prerequisite: Business 60b or a 61a score on the typewriting placement test.

BUSINESS 62—EXPERT TYPEWRITING (1) II.

Development of high speed with accuracy in the production of office materials in preparation for immediate vocational placement is the goal of this course.

Prerequisite: Business 61a or a typewriting speed of 45 words a minute on the typewriting placement test.

BUSINESS 67—TECHNIQUES OF DUPLICATION (1) I, II.

Laboratory 2 hours.

The skills and techniques necessary for the successful operation of modern duplicating machines are emphasized in this course, one which is of value to all business students. Assigned projects will be completed on the Ditto, Standard, Gestetner, and A. B. Dick duplicators, the A. B. Dick Offset duplicator, the Thermofax Dry Photo-Copier, the Thermofax Secretary, and a photocopy machine.

Prerequisite: Business 61a score on the typewriting placement test or the completion of Business 60b.

BUSINESS 68a—OFFICE MACHINES (2) I, II, E.

A course of instruction designed to acquaint the student with those machines in most common use in business offices and to build skill in performing the fundamental arithmetic operations upon them. The machines studied are: Comptometer, Burroughs, Marchant, Friden, and Monroe Calculating Machines; Clary Adding Machine; Remington-Rand and Olivetti-Underwood Printing Calculators; Burroughs and National Cash Register Posting Machines; and various electronic calculators.

Note: Those students who have credit for a separate office machines course in high school will receive no credit for this course.

Prerequisite: Business 95 if the student has not recently had a course in arithmetic—or it may be taken concurrently.

BUSINESS 68b—ADVANCED OFFICE MACHINES (2) II.

An advanced course designed to meet the needs of those students who desire to build professional skill in the use of the calculating and adding machines. This course provides specialized work on practical problems chosen from the various major lines of business, thus enabling the operator to obtain proficiency.

Prerequisite: Business 68a **and** permission of the instructor.

BUSINESS 69—MACHINE TRANSCRIPTION (2) I, II.

A course of instruction designed to train the student in the operation and care of the Dictaphone and IBM Executary dictating and transcribing machines and to develop skill in their use.

Prerequisite: Satisfactory typewriting speed, English 51, **and** permission of the instructor.

Merchandising

BUSINESS 70—SALESMANSHIP (3) I, II.

A general education course designed to acquaint students with the factors involved in successful selling, including an overview of the economic aspects and types of selling, the environment of the salesman, and the major steps in selling.

This is a required course for all clerical majors.

BUSINESS 71—CREATIVE SELLING (3) I.

A study of the personal factors and techniques which influence people, including the mechanics and methods of dealing with the many kinds of customers encountered. Practice is given in the selling process, using the psychological and social aspects of persuasion.

This course must be taken concurrently with Business 72, as it is a required course for all merchandising majors.

BUSINESS 72—RETAILING (3) I.

A course dealing with successful merchandising techniques and methods which will aid the student in acquiring job competency in retail service and in preparing for sales positions leading to management in retail stores. Attention is focused upon the following merchandising problems which confront both the large and the small retailer: what to buy, where to buy, location and layout, stock care and arrangements.

This is a required course for all merchandising majors.

BUSINESS 73—RETAIL BUYING (3) II.

A consideration of those factors basic to the planning, selecting, buying, pricing, and selling of retail merchandise is the foundation of this course, which is so designed as to enable the merchandising major to assume these responsibilities in a retail establishment.

Prerequisite: Business 72.

BUSINESS 74—MARKETING (3) II.

This course deals with the distribution of commodities from the producer to the retailer. Emphasis is placed upon classification of commodities, function of the various distributors, and channels of distribution. Specific areas covered include advertising, transportation, storage, grading, and packaging.

This is a required course for all merchandising majors.

It is recommended that students take Business 92 or 10 and Business 71 (or Business 72) before registering for this course.

BUSINESS 75—ADVERTISING AND DISPLAY (3) I.

A course providing a basic knowledge of what advertising is, what it does, and how it works, including the basic criteria for the evaluation of advertising which will be useful for the student of merchandising, the student of journalism, and the American consumer. Practice will be given in the retailing skills useful in window and interior display.

BUSINESS 76—CREDITS AND COLLECTIONS (3) II.

The principles of consumer credit form the basis of this course which inquires into the methods of credit extension to and collection from wholesale, retail, and consumer buyers, the sources of credit information, credit institutions, and the technical and legal aspects of credits and collections.

Accounting and Business Data Processing

BUSINESS 80α-80b—ELEMENTARY ACCOUNTING (4-4) I, II, E.

Lecture and discussion 3 hours; laboratory 2 hours.

An elementary course in accounting principles and practices, covering business papers, general and special journals, general ledgers with control accounts, subsidiary ledgers, posting, periodic adjustments, work sheets, financial statements, and closing entries. Single proprietorship, partnerships, and corporation accounting systems are included. Retail and wholesale departmental practice sets accompany the course.

Prerequisite for Business 80b: Business 80α or the completion of two years of high-school bookkeeping with a satisfactory grade.

BUSINESS 81—ADVANCED ACCOUNTING (4) I, E.

Lecture and discussion 3 hours; laboratory 2 hours.

An advanced course in the application of specialized phases of accounting theory and practice which continues the work of Business 80α-b.

Prerequisite: Business 80α-b or its equivalent.

BUSINESS 82—TAX AND PAYROLL ACCOUNTING (4) II.

Lecture and laboratory, 5 hours a week.

A practical accounting course which provides an explanation of federal tax structures as they apply to individuals and to businesses, with training in the application of tax principles to specific individual and business problems, and which includes the development of the records and reports needed by the individual and by business incident to the social security and tax programs of the federal and state governments as they affect payroll.

Business 80b may be taken concurrently.

Prerequisite: Business 80α.

BUSINESS 83—COST ACCOUNTING (3) II.

Practical training in cost accounting techniques is emphasized in this course which covers job cost, process cost, and standard cost.

Prerequisite: Business 81α or Business 1b.

BUSINESS 84—DATA PROCESSING (3) I, II.

Fundamental concepts of data processing used in business and industry. Includes the historical development and study of the basic methods, technique and systems of manual, mechanical, and electronic data processing applied to business operations. No background in the field is needed for this course.

BUSINESS 85α—ELECTROMECHANICAL EQUIPMENT (3) I.

Lecture and laboratory 5 hours.

Introduction and orientation to such conventional IBM punch card machines as the card punch, sorter, reproducer, collator, and accounting machine. Card design, card processing, operating principles, control panel diagramming, flow diagram and procedure development, and accounting control are studied.

Prerequisite: To be taken concurrently with Business 84 and Business 80α (if the student has not already completed these requirements).

BUSINESS 86α—PRINCIPLES OF COMPUTER PROGRAMMING I (3) II.

Lecture and laboratory 5 hours.

A basic course in programming of electronic digital computers. The course will cover the problems of data processing, the characteristics of computers, index registers, debugging, and Fortran coding. Students will have access on the COS campus to an IBM 1131 computer with an on-line printer and a card-read punch.

Prerequisite: Business 84 or the permission of the instructor.

*BUSINESS 86b—PRINCIPLES OF COMPUTER PROGRAMMING II (3) I.

Lecture and laboratory 5 hours.

An advanced course in electronic digital computer programming, including advanced techniques, file maintenance, and additional work in programming for business applications.

Prerequisite: Business 86α or the permission of the instructor.

*This course will first be offered fall semester of 1967.

*BUSINESS 86c—ADMINISTRATIVE SYSTEMS AND PROCEDURES (3) II.

A study of data processing systems and procedures, including an analysis of the various existing data processing systems and of integrated or total management information. Class projects will include the development of detailed procedures in the various areas of a management information system.

Prerequisite: Business 86α.

*This course will first be offered spring semester of 1968.

BUSINESS 87—ACCOUNTING FOR SECRETARIES (2) II.

The content, organization, and emphasis of this course are based upon the actual bookkeeping and recording activities performed on the job by the secretary.

This course is open only to those **secretarial** majors who have **not** had high school bookkeeping, Business 80α, 80b, or 88.

BUSINESS 88—RECORDKEEPING FOR SMALL BUSINESS (3) I.

A vocational recordkeeping course for **non-business** majors which covers basic bookkeeping procedures. A practice set is included.

Business 88 is **not** open to students who have had high-school bookkeeping or who have credit for Business 1a-1b, 81, or 87.

Prerequisite: Business 95 or Mathematics 50 must be taken with or prior to registering for this course.

Business Background

BUSINESS 90—BUSINESS STATISTICS (3) II.

A course in presenting statistical data for the solution of problems in the areas of business and social science. The subject matter stresses statistical methods as tools in organizing and expanding data for maximum understanding and for using effectively in making decisions, rather than placing main emphasis upon mathematical theory of the derivation of statistical formulas.

The course is open to students majoring in business and in the social sciences.

Prerequisite: High school algebra.

BUSINESS 91a—SMALL BUSINESS MANAGEMENT (3) II.

A basic course in the organization, operation, and management of small businesses. Special attention is given to the problems of the sole proprietorship type of organization. It is recommended that the student complete Business 95 and Business 92 (or Business 10) before taking this course.

BUSINESS 91b—OFFICE MANAGEMENT (3) II.

An advanced course presenting the fundamental principles and successful practices in the field of office management, that indispensable part of business administration through which the personnel, paper work, and production of an entire organization are coordinated. Major emphasis is placed on work simplification, the human element, supervision of office services, and the planning, organizing, and controlling of office work.

BUSINESS 92—SURVEY OF AMERICAN BUSINESS (3) I, II.

A business background course presenting a survey of business principles, problems, practices, and procedures of value to all students, whether or not they are majoring in business. For the business major, this course affords assistance in choosing an area of specialization and a background for the more specialized business courses.

This course is not open to the student who has taken Business 10.

BUSINESS 93—SURVEY OF BUSINESS LAW (3) I, E.

A study of the meaning and operation of the law under which the student lives, the value of such law to his everyday living, and its aid in the conduct of his home, social, and business affairs.

Recommended for all terminal business majors. Required for non transfer majors in accounting, excepting those students taking Business 18.

BUSINESS 94—INSURANCE PRINCIPLES (3) I.

A survey of the general principles of risk and risk-taking and of the basic kinds of insurance available to individuals and groups—a course designed for those students interested in insurance as potential consumers or as a career.

BUSINESS 95—BUSINESS ARITHMETIC (3) I, II.

A remedial mathematics course in which the student will develop speed and accuracy in the fundamental processes of arithmetic commonly used in making business calculations and will develop the ability to make many ordinary computations mentally rather than by the use of pencil and paper. Students who have received credit for Business 22 may not take this course.

Prerequisite: Satisfactory score on the mathematics placement test.

BUSINESS 96a—SECRETARIAL ENGLISH (3) I, E.

A course designed to give secretarial majors a review of, and practice in, the basic English skills necessary for skillful shorthand transcription. It offers a review of the fundamentals of English grammar, sentence structure, and punctuation, and aids in the building of an adequate business vocabulary. Not open to students who have taken English 51.

Prerequisite: English 51 score on the English placement test.

BUSINESS 96b—WRITING FOR BUSINESS (3) I, II.

A required course in business communications dealing with the central principles underlying the writing of effective business letters and providing liberal practice in applying those principles. Study is made of the basic and associated forms of business communications, sales writing, credit, collection, and adjustment letters, and letters of application.

This course is required of all business majors.

Prerequisite: English 1a score on the English placement test or a C grade in either English 51, 52, or Business 96a.

BUSINESS 96c—REPORT WRITING (3) I.

This systematic course in the preparation of professional reports includes instruction in the basic elements, principles, and practices underlying communication, develops skills in organizing and clarifying information for effective writing, and fosters logical thinking as part of the communicative process.

Open to **all** students who are training for professional careers in which report writing is required.

Prerequisite: Business 96a, English 51, English 52, or an English 1a score on the English placement test.

BUSINESS 97—PERSONAL FINANCE (3) I, II.

A general education course covering the proper management of personal income and expenditures, open to both business and non-business majors. To be discussed will be such topics as: commercial and savings accounts, investments, borrowing money; budgets, charge accounts, and installment buying; property, income, estate, inheritance, and gift taxes; life, health, accident, property, and miscellaneous insurance; pension plans and social security; trust funds and wills; inflation and business cycles; and problems of owning a home.

BUSINESS 98—HUMAN RELATIONS IN BUSINESS (3) I.

A course to acquaint the student with those accepted principles of human relations which will be of practical use for advancement in business, to aid the student in becoming more efficient personally, and to provide an understanding of the problems of management in personnel administration.

BUSINESS 99—LABOR-MANAGEMENT RELATIONS IN PUBLIC SERVICE (2) E.

To provide a basic understanding of labor-management relations in the public service. Covered are such topics as the evolution of union structure, consultation and negotiation, the national agreement and its impact at the federal and local levels, and grievance and adverse action procedures.

DIVISION OF FINE ARTS

ART

ART 1 α —HISTORY OF ART (3) I.

A survey of painting, sculpture, architecture and the minor arts representative of prehistoric, ancient, classical and medieval periods of Western civilizations and early civilizations of Eastern culture. Illustrated lectures.

ART 1 b —HISTORY OF ART (3) II.

A survey of painting, sculpture, architecture and the minor arts from the Renaissance to the present day in Western civilizations. Illustrated lectures.

ART 3—INTRODUCTORY CRAFTS (2) I, II.

Selected experiences from various craft areas: printing, ceramics, sculpturing and modeling, using such materials as paper, wood and metal.

Recommended especially for elementary education majors.

ART 4 a 4 b —EXPLORATORY CRAFTS (2-2) Yr, E.

A basic crafts course designed to develop artistic skills in the media of design, ceramics and metal sculpture, and to provide experiences with the various art materials, tools and equipment. Included in ceramics are projects in glaze experimentation, slab and coil construction; in jewelry, lost wax casting and etched design.

ART 6 a 6 b —COLOR AND DESIGN (2-2) Yr.

A basic course in art with the primary purpose of familiarizing the student with the elements and principles used in art through the study of historic examples from all countries and periods. Creative imagination and judgment are stimulated through problems involving various media. Experiments with line, form, and color, in two and three dimensions.

Must be taken in sequence.

ART 7 α —FREEHAND DRAWING (2) I, E.

An introduction to basic principles of graphic representation. Studio practice emphasizes fundamentals of drawing and pictorial organization in dark and light. Use of pencil, pen-brush and ink, charcoal, and scratch-board techniques.

ART 7 b —LIFE DRAWING (2) II, E.

Fundamentals of anatomy and representation of the human figure. Drawing from life.

Prerequisite: Art 7 α or equivalent.

ART 12 α -12 b —WATERCOLOR PAINTING (2-2) I, II, E.

The theory and techniques of watercolor painting. Studio practice in still life, landscape and other subject matter using watercolor media.

Prerequisites: Art 6 a and Art 7 α or equivalents.

ART 14a-14b—OIL PAINTING (2-2) I, II, E.

Experimental painting of still life, landscape, and the human figure. A study of painting procedure, color, theory, and techniques. Medium—oil paint
Prerequisites: Art 6a-6b and 7a or permission of the instructor.

ART 19—ART APPRECIATION (2) I, II, E.

A course designed to develop the student's capacity to enjoy his surroundings by making him conscious of the beauty he sees in his home, his school, his community, and in works of master craftsmen and artists.

ART 23a-23b—DESIGN IN LEATHER (2-2), E.

A course in creative leather craft designing, pattern making, carving, finishing, and monogramming.

ART 25a-25b—CREATIVE JEWELRY (2-2) I, II, E.

A basic course in modern jewelry making in creative design and conventional pins, broaches, clasps, rings, earrings. The course is basic for hobby or trade.

ART 27a-27b—LAPIDARY (2-2), Yr, E.

The art of cutting and polishing semi-precious stones.

Not less than one field trip each semester for the study of geological formations and the collection of suitable materials.

ART 27c-27d—LAPIDARY (2-2) Yr, E.

The second-year course in the art of cutting and polishing semi-precious stones.

Prerequisite: Art 27a-27b.

Enrollment in Art 27 is limited to four semesters.

ART 29a-29b—GRAPHIC ARTS (2-2) I, II.

Design and layout, photographic composition, printing, air brush linoleum and wood prints, scratch board, and drawing. Pen and brush lettering.

ART 31a-31b—MERCHANDISING ART (2-2) E.

Basic techniques in window and counter display with emphasis on hand lettering, design, and color.

ART 54a-54b—DECORATIVE CERAMICS (2-2) Yr, E.

The first-year course in the decoration of clay, copper and glass.

ART 54c-54d—DECORATIVE CERAMICS (2-2) Yr, E.

The second-year course in the decoration of clay, copper and glass.

Prerequisite: Art 54a-54b.

Enrollment in Art 54 is limited to four semesters.

ART 55a-55b—CERAMICS (2-2) Yr, E.

The first-year course in the use and making of clay products.

ART 55c-55d—CERAMICS (2-2) Yr, E.

The second-year course in the use and making of clay products.

Prerequisite: Art 55a-55b.

Enrollment in Art 55 is limited to four semesters.

ART 56a-56b—CHINA PAINTING (2-2) Yr, E.

The first-year course in china decorating, painting, design, color and firing.

ART 56c-56d—CHINA PAINTING (2-2) Yr, E.

The second-year course in china decorating, painting, design, color and firing.

Prerequisite: Art 56a-56b.

Enrollment in Art 56 is limited to four semesters.

ART 57a-57b-57c-57d—LANDSCAPE PAINTING (1-1-1-1) E.

Oil painting; development of form through color with an emphasis on landscape painting.

CINEMA ARTS

CINEMA ARTS 55a-55b—MOTION PICTURE APPRECIATION (2-2) E.

An exploration of the origin of motion picture production, objectives of various directors and producers in their films, and technological and aesthetic changes in motion picture production. Students are taught to view the motion picture as an art form and to evaluate the objectives of motion pictures and their attainment.

MUSIC

MUSIC 1a-1b—STRING INSTRUMENTS: CLASS INSTRUCTION (1-1) I, II.

Elementary instruction in violin, viola, cello, bass viol; tone production, bowing, technique, care of instruments.

MUSIC 2a-2b-2c-2d—STAGE BAND (1-1-1-1) I, II.

A terminal course which includes the organization, training procedures, arranging, vocals, and other phases of dance band work. Public performance and field trips may be required. Designed for the student desiring to enter the field of professional dance music, radio, or theatre orchestra work.

Prerequisite: Competent playing ability and permission of the instructor. Should be taken concurrently with Mus. 18a-18b and Mus. 19a-19b.

MUSIC 3a-3b—WOODWIND INSTRUMENTS: CLASS INSTRUCTION (1-1) Yr.

3a—Elementary instruction; correct tone production; technique and care of instruments; emphasis on clarinet.

3b—Continuation of 3a with emphasis on flute, oboe, saxophone, and bassoon.

MUSIC 4α-4b—MUSICIANSHIP (1-1) Yr.

Simple rhythmic notation; scales, intervals, triads, melodies in major mode, emphasizing the tendency of tones individually and their significance in groups; music reading of material containing simple tonal relations and simple rhythmic designs; phrasing and general principles of music interpretation. Must be taken concurrently with Music 12α-12b.

MUSIC 5α-5b—ADVANCED MUSICIANSHIP (1-1) Yr.

Continuation of Music 4α-4b. Diatonic and chromatic modulation, altered chords.

Prerequisite: Music 4α-4b. Must be taken concurrently with Music 14α-14b.

MUSIC 6α-6b—BRASS AND PERCUSSION INSTRUMENTS:
CLASS INSTRUCTION (1-1) Yr.

6α—Elementary instruction; correct tone production, technique, and care of instruments.

6b—Continuation of 6α.

MUSIC 7α-7b-7c-7d—ADVANCED ORCHESTRA (1-1-1-1) I, II, E.

A course designed for students and adults who are proficient in playing their instruments. The orchestra prepares music for accompaniment for oratorio, light opera, and standard orchestral literature. Participation in public performances is expected.

Three hours classwork.

Prerequisite: Permission of the instructor.

MUSIC 8α-8b-8c-8d—COLLEGE CHOIR (1-1-1-1) I, II.

A study of the best choral literature for mixed voices, with emphasis on tone production, precision, and sincerity of ensemble interpretation.

Choir students are asked to participate in a limited number of out of school performances.

Prerequisite: Permission of instructor.

MUSIC 10—APPRECIATION OF MUSICAL LITERATURE (2) I, II, E.

Designed to aid the average student in developing an understanding and enjoyment of the music of the great composers. No previous musical training required. Special emphasis given to the problems of the musically untrained listener.

MUSIC 12α-12b—BEGINNING THEORY (3-3) Yr.

This course includes the fundamentals of music notation and the use of chords in harmonizing melodies and basses in both major and minor keys. Simple ear-training and key-board harmony included. Must be taken concurrently with Music 4α-4b.

MUSIC 14a-14b—ADVANCED THEORY (3-3) Yr.

Continuation of Music 12a-12b. Diatonic and chromatic modulation, altered chords.

Prerequisites: 12a-12b.

Must be taken concurrently with Music 5a-5b.

MUSIC 16a-16b—MUSIC HISTORY (3-3) Yr.

16a—The history of music from primitive times to the eighteenth century.

16b—A continued study to the present.

MUSIC 17a-17b—ORCHESTRATION (2-2) Yr.

17a—Range, technique, timbre, transportation of band and orchestral instruments; exercises in orchestration for individual instrumental choirs.

Prerequisites: Music 4a-4b, Music 12a-12b.

17b—Scoring for small instrumental combinations and for full band and orchestra. Introduction to stage band, arranging also included.

Prerequisite: Music 17a.

MUSIC 18a-18b—MARCHING BAND (2-2) I.

Rehearsal and participation in performances for athletic and other college functions. Some extra-class time is required for public appearances of the group. A night session for field practice, trips and performances is usually required.

MUSIC 19a-19b—CONCERT BAND (1-1) II.

A study and performance of standard band music, with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship. Some outside or public performances are required.

MUSIC 20—APPRECIATION OF THE OPERA (2) I, II.

Complete opera recordings of selected composers.

MUSIC 21—BEGINNING PIANO (1) I, II.

Prerequisite: None.

MUSIC 22a-22b-22c-22d—INTERMEDIATE PIANO (1-1-1-1) I, II.

Prerequisite: Music 21 or consent of instructor.

MUSIC 30a-30b-30c-30d—ELEMENTARY VOICE (1-1-1-1) I, II.

A class in the fundamentals of good singing in the vocal field. Individual performance before the class is required.

Prerequisite: Permission of the instructor.

MUSIC 51a-51b-51c-51d—PERFORMANCE MUSIC (1-1-1-1) I, II, E.

Performance in recitals, musicals, bands and orchestras. Hours are arranged for those wishing to participate in marching band or instrumental ensembles but are unable to meet the regular schedule.

MUSIC 52a-52b-52c-52d—Special Performance Activities (N/C) I, II.

Speech Arts and Drama

SPEECH 1a-1b—FUNDAMENTALS OF PUBLIC SPEAKING (3-3) I, II, E.

Concerned with training in meeting practical speech situations. During the first semester, techniques of organizing speech materials, effective use of voice in communication, and good platform manners are stressed. In the second semester, preparation and delivery of various types of speeches receive emphasis.

Prerequisite: An acceptable score on the English placement test or a grade of "C" or better in English 51 or Business 96a.

SPEECH 40—RADIO-TV SPEECH (2) I, II.

This is a laboratory course in microphone and television technique, in which voice control, diction, radio and television announcing are studied. It is intended especially for speech majors and for students who wish experience in radio and television announcing.

SPEECH 41—RADIO-TV PRODUCTION (2) I, II.

Methods and techniques of tape recording radio news for broadcast over local stations. Mandatory participation. Script writing, announcing, set-ups, timing.

Prerequisite: Speech 40 and instructor's permission.

SPEECH 51—PRACTICAL SPEECH (3) I, II, E.

This course is arranged for those students who intend to go directly into homemaking or business upon the completion of their junior-college work. Stress is placed upon the development of poise and self-confidence, right use of the voice, and parliamentary procedure for meetings of clubs.

DRAMA 33—PLAY PRODUCTION (2) I.

Selection, casting, rehearsals, staging, preparation of a prompt book, backstage organization, duties of production staff.

DRAMA 34—ELEMENTARY ACTING (2) II.

Introduction to the basic techniques and theories of acting; with directed training in their application.

DRAMA 35—INTRODUCTION TO THE THEATRE (2) I.

Analysis of the theatre, the play, the playhouse, styles of staging, the actor, and drama as art.

DRAMA 36—DRAMATIC LITERATURE (2) II.

Reading and analysis of great plays from various periods in dramatic literature.

DRAMA 61a-61b-61c-61d—STAGE LIGHTING (1-1-1-1) I, II.

Technical problems in stage lighting. Practical experience in the setting up and use of lighting instruments for plays and operettas.

DIVISION OF INDUSTRY AND TECHNOLOGY

Industrial Arts

INDUSTRIAL ARTS 1—ELEMENTS OF WOODWORK (3) I.

Six hours per week.

The processes of bench woodworking; use and care of hand tools; fundamentals; exercises, correct construction methods; basic operations on light woodworking machinery, including wood turning.

INDUSTRIAL ARTS 2—MACHINE WOODWORKING (3) II.

Six hours per week.

Operation, care and maintenance of woodworking machinery in the construction of case work, cabinets, and furniture. Safety in the operation of woodworking machines and power tools.

Prerequisite: Industrial Arts 1.

INDUSTRIAL ARTS 6a-6b—WELDING (3-3) Yr., E.

Five hours per week.

Study of welding materials, supplies, tools, and equipment. Welding procedures using arc welding and acetylene welding and cutting equipment.

Prerequisite: Industrial Arts 6a before 6b.

INDUSTRIAL ARTS 9—FUNDAMENTALS OF AUTOMOTIVE MECHANICS (3) II.

Six hours per week.

Basic theory including electricity, carburetion, engines, lubrication, cooling, tune-up and diagnostic equipment.

INDUSTRIAL ARTS 10a-10b-10c-10d—MACHINE SHOP (3-3-3-3) I, II, Yr.

Five or ten hours per week, by arrangement.

Study of materials, supplies, tools and equipment. Project construction involving layout, setup, and operation of jobs on lathes, drill presses, grinders, milling machines and shapers.

INDUSTRIAL ARTS 11—PRACTICAL PROBLEMS IN ELECTRICITY (3) I.

Six hours per week.

Fundamentals of electricity; application to industry and everyday life; practical problems and projects. Demonstration aids are constructed in the shop laboratory.

INDUSTRIAL ARTS 40a-40b—ELEMENTARY MECHANICS (3-3) Yr., E.

Five hours per week.

An introductory course covering the study of materials, processes, tools, and machines in the general metal field. Project construction on layout, benchwork, foundry, heat treating, sheet metal, and machine shop.

INDUSTRIAL ARTS 45—AUTOMOTIVE ESSENTIALS (2) II, E.

A study of automotive, electricity, carburetion, tune-up, and diagnostic equipment.

INDUSTRIAL ARTS 61—WELDING (2) I, II, E.

One hour lecture, two hours laboratory per week.

Arc and gas welding for automotive technology students.

Automotive Technology

AUTOMOTIVE MECHANICS 55α-55b—BASIC AUTO (7-7) Yr.

Fifteen clock hours per week laboratory-lecture.

Instruction and laboratory work in the care and use of hand and power tools and equipment used in auto service and repair shops. Emphasis on electrical, fuel, lubricating, cooling, engines and sub-assemblies, steering, suspension, and conventional power train components.

Student must have permission of instructor to enroll in A.M. 55b before A.M. 55α.

AUTOMOTIVE MECHANICS 56α-56b—ADVANCED AUTO (7-7) Yr.

Fifteen clock hours per week laboratory-lecture.

First semester covers automatic transmission. Second semester includes the more difficult phases of auto repair and service. Covers use of analyzers and trouble shooting equipment and prepares student for employment in the trade.

Prerequisite for 56α, 55b; for 56b, 56α.

AUTOMOTIVE MECHANICS 60—BASIC AUTO (2) E.

Service and repair of engines and power train assemblies and sub-assemblies.

AUTOMOTIVE MECHANICS 61—ENGINE TUNE-UP (2) I, E.

Study of compression, electrical and fuel systems.

AUTOMOTIVE MECHANICS 62—AUTOMATIC TRANSMISSIONS (2) E.

Theory, application of theory, repairs, care and maintenance, and trouble shooting of Dynaflo, Powerglide, Ford-o-matic and Hydramatic.

Building Trades

BUILDING TRADES 55α-55b—ELEMENTARY CARPENTRY, TRADE RELATED INFORMATION (3-3) Yr.

An introductory course in those phases of carpentry that can be taught in the classroom, including safety, care and use of tools, blueprint reading, material estimating, bearing capacities of soils, termite control, laying out buildings, foundation form construction, framing. This course is required of all regular-day carpentry students and building materials-merchandising students.

BUILDING TRADES 56α-56b—ADVANCED CARPENTRY, TRADE RELATED INFORMATION (3-3) Yr.

A continuation of 55α and 55b. This course covers roof framing, exterior trim, interior trim and cabinet work. It is required of all regular-day, second-year carpentry students.

BUILDING TRADES 61α-61b-61c-61d—STAGECRAFT (1-1-1-1) I, II.

Practical experience in the design, construction and painting of stage sets and scenery. Practical application is accomplished through participation in the technical staging of major college dramatic and musical productions.

Electronic Technology

ELECTRONIC 55α-55b—BASIC ELECTRONICS—TRADE RELATED INFORMATION (3-3) Yr.

Five hours theory per week.

A basic course in the fundamentals of electricity and electronics consisting of theory of simple electric current, circuits, conductors for direct current and alternating current.

ELECTRONICS 56α-56b—ADVANCED ELECTRONICS—TRADE RELATED INFORMATION (3-3) Yr.

Five hours theory per week.

A course in the theory of tubes, transistors, circuits, receivers, transmitters and test instruments, including preparation for Federal Communications Commission Radiotelephone Second Class Operator License Examination.

ELECTRONICS 60α-60b—FUNDAMENTALS OF ELECTRONICS (2-2) Yr., E.

The theory and practical application of electric circuitry. Four hours per week, lecture and laboratory.

ELECTRONICS 61α-61b—BASIC ELECTRONICS (2-2) Yr., E.

Transistors, vacuum tubes, basic circuits. Four hours per week, lecture and laboratory.

Prerequisite: Electronics 60α-60b or permission of instructor.

ELECTRONICS 62α-62b—BASIC TELEVISION (2-2) Yr., E.

Fundamentals of black and white and color circuitry and servicing. Four hours per week, lecture and laboratory.

Prerequisite: Electronics 61α-61b or permission of instructor.

ELECTRONICS 63α-63b—ADVANCED TELEVISION (2-2) Yr., E.

Advanced television servicing techniques, including color receivers. Fundamentals of color television, circuitry and servicing. Four hours per week, lecture and laboratory.

Prerequisite: Electronics 62α-62b or permission of instructor.

ELECTRONICS 65α-65b—BASIC ELECTRONICS—LABORATORY (6-6) Yr.

Fifteen hours of laboratory work per week.

This course covers the fundamentals of laboratory procedures such as soldering, wiring of experimental circuits, and the use of instruments and tools used in industry.

ELECTRONICS 66α-66b—ADVANCED ELECTRONICS—LABORATORY (6-6) Yr.

Fifteen hours of laboratory work per week.

A continuation of the first year of laboratory work covering receivers, transmitters, and modern test equipment and operation.

ELECTRONICS 75α-75b—RADIO COMMUNICATIONS, LICENSING (4-4) Yr., E.

Radio theory and operation designed to assist persons employed in the electronics fields to prepare for FCC commercial license.

Prerequisite: Electronics 60α-60b or equivalent experience and permission of instructor. Electronics 75α is a prerequisite to Electronics 75b.

REFRIGERATION

**REFRIGERATION 60—FUNDAMENTALS OF AIR CONDITIONING
AND REFRIGERATION (2) E.**

An introductory course designed to provide an understanding of refrigeration systems are illustrated in the classroom and the laboratory. Testing, repairing, installation and start-up of refrigeration and air conditioning units are demonstrated.

REFRIGERATION 61—SHOP PRACTICES AND TECHNIQUES (2) E.

Procedures in installing refrigerant lines, silver brazing of refrigerant joints, techniques of leak testing, evacuation procedure, general service techniques.

Prerequisite: Refrigeration 60.

VOCATIONAL NURSING

NURSING 50-51-52—VOCATIONAL NURSING (17-14-14) II, I, II.

Theory and practice of nursing, vocational relationships, medical and surgical principles, maternal and child care, and clinical experiences in those areas at hospitals within the college district, leading to the development of those abilities and skills necessary to provide interpersonal, technical and manual nursing services under the supervision of a registered nurse or licensed physician.

Upon satisfactory completion of this course, a certificate is awarded. The college then certifies the student to take the state board examination to obtain licensure in California as a vocational nurse.

The program consists of three semesters of eighteen weeks each, six class hours or six and one-half clinical hours per day, and covers the following course sequences:

1. FIRST SEMESTER:

- VN 50α—Basic Fundamentals of Nursing (5)
- VN 50b—Medical and Surgical Nursing I (6)
- VN 50c—Medical and Surgical Nursing Laboratory I (6)

2. SECOND SEMESTER: (Prerequisite: VN 50 sequence)

- VN 51α—Medical and Surgical Nursing II (4)
- VN 51b—Medical and Surgical Nursing Laboratory II (4 or 7)
- VN 51c—Obstetrics, Infant Care and Pediatrics I (3 or 6)

3. THIRD SEMESTER: (Prerequisites: VN 50 and 51 sequence)

- VN 52α—Medical and Surgical Nursing III (4)
- VN 52b—Medical and Surgical Nursing Laboratory III (4 or 7)
- VN 52c—Obstetrics, Infant Care and Pediatrics II (3 or 6)

VN 50α—BASIC FUNDAMENTALS OF NURSING (5)

Basic nursing skills and principles applicable to all patients. Included are normal hygiene practices, health services and resources, observation and reporting techniques, and interpersonal relationships, stressing mental health, daily living of the individual and utilization of patient contacts.

VN 50b—MEDICAL AND SURGICAL NURSING I (6)

VN 51α—MEDICAL AND SURGICAL NURSING II (4)

VN 52α—MEDICAL AND SURGICAL NURSING III (4)

Combined class and ward experience in the following areas: introduction to the body systems; maturation, growth and development; disease processes; nursing care for conditions of the nine body systems, including rehabilitation; causes and manifestations of diseases; medication for disease conditions; health service needs of patients with short- or long-term illnesses; daily needs of patients with specific disease conditions; purpose and effects of medical care, including diet; and assisting with complex nursing care.

VN 51c—OBSTETRICS, INFANT CARE AND PEDIATRICS I (3 or 6)

VN 52c—OBSTETRICS, INFANT CARE AND PEDIATRICS II (3 or 6)

Daily needs during pregnancy and postpartum; daily needs of the infant; health services during pregnancy and delivery; clinical health services for infant care; nursing care for the mother, infant and child. Three or six units in proportion to clinical/laboratory hours assigned and completed.

VN 50c—MEDICAL AND SURGICAL NURSING LABORATORY I (6)

VN 51b—MEDICAL AND SURGICAL NURSING LABORATORY II (4 or 7)

VN 52b—MEDICAL AND SURGICAL NURSING LABORATORY III (4 or 7)

Clinical assignments and experiences in the cooperating district hospitals in the following ward areas: admitting room and clinic; pediatric ward; convalescent and geriatric wards, obstetrical wards; medical wards; surgical wards. Further clinical experience may be available to some students in the following special areas: central supply and recovery or emergency rooms; intensive care unit. Six units the first semester; four or seven units the second and third semesters in ratio to the instructional hours completed in obstetrics, infant care and pediatrics.

DIVISION OF LANGUAGE ARTS AND COMMUNICATION

ENGLISH

ENGLISH 1 α —FIRST YEAR READING AND COMPOSITION (3) I, II, E.

This course is designed to provide training in intelligent interpretation and in correct and effective expression, oral and written, through analysis and discussion of expository types of literature, especially the essay and biography, and the writing of themes. Organization of material, clarity and directness of style, and idiomatic correctness are stressed. Experience in the preparation of a formal research paper is included.

Prerequisite: An acceptable score on the English placement test or a grade of "C" or better in English 51, English 52, or Business 96a.

ENGLISH 1 b —FIRST-YEAR READING, COMPOSITION, AND LITERATURE (3) I, II, E.

The purpose of this course is to improve the student's powers of analysis and expression, and to cultivate his appreciation of literary values through a critical study of selected plays, poems, short stories and a novel. Oral discussion and written composition are continued.

Prerequisite: English 1 α .

ENGLISH 4 α -4 b —MASTERPIECES OF LITERATURE — THE ENGLISH NOVEL (3-3) Yr.

This course covers the history and development of the English novel from the eighteenth to the twentieth century. Emphasis is placed on the social as well as the aesthetic aspects of the works. Representative novels are read and discussed each semester.

Prerequisite: English 1 α .

ENGLISH 5 α -5 b —HISTORY OF ENGLISH LITERATURE (3-3) Yr.

Typical works of major authors from Chaucer to the twentieth century, emphasizing important aspects of English literary history and stressing social backgrounds.

Prerequisites: English 1 α -1 b , or English 1 α and English 30, 31, 44, or 45.

ENGLISH 14—CREATIVE WRITING (2) I, E.

A course in which emphasis is placed upon writing with imagination and skill. Class members are encouraged to choose an area such as verse, short story or drama in which to specialize. Fellow students, as well as the instructor, will criticize written work. Students will make oral or written reports pertaining not only to writing problems but also to such fields as marketing and editing.

ENGLISH 15—CREATIVE WRITING (2) II, E.

A continuation of English 14, offered to all students interested in creative writing. Professional standards of writing receive special emphasis.

Prerequisite: English 1 α or permission of the instructor.

ENGLISH 30-31—AMERICAN LITERATURE (3-3) I, II, E.

American masterpieces from the colonial era to the present, emphasizing literary and social backgrounds.

Prerequisite: English 1a.

ENGLISH 44-45—MASTERPIECES OF WORLD LITERATURE (3-3) I, II, E.

Masterpieces of world literature from the Greek era to the twentieth century.

Prerequisite: English 1a.

ENGLISH 46—SHAKESPEARE (3) II, E.

An introduction to Shakespeare, his plays, his other poetry, his sources, the background of his age, and his language. The student will read, in addition to other material, at least a dozen of the plays, selected from the comedies, histories and tragedies.

ENGLISH 50—PRACTICAL ENGLISH (3) I, II, E.

A prerequisite for English 51 for those students who fail to attain the necessary score for placement in English 51. It may be used as a terminal course which partially fulfills the English requirement for those who do not plan to transfer.

ENGLISH 51—GRAMMAR AND COMPOSITION (3) I, II, E.

This course includes drills in mechanics, diction, grammar, punctuation, and spelling, and practice in writing sentences, paragraphs, and themes. It is intended primarily for those students who fall below the median score in the English placement test. Some colleges allow partial transfer credit for this course; however, no credit is granted by many four-year institutions.

Prerequisite: An acceptable score on the English placement test or grade of "C" or better in Eng. 50.

ENGLISH 52—ESSENTIALS IN READING AND WRITING (3) I, II.

This course is planned for the student who has failed to qualify in English 51 for English 1A. Basic reading and writing skills are stressed.

ENGLISH 53—READING FOR PLEASURE (3) I, II.

This course is recommended for those students who will conclude their formal education in the junior college. Students read stories, plays, and poems for informal class discussion. Not open to students who have taken English 1b.

ENGLISH 54—READING BETTER AND FASTER (3) I, II.

Intended for those students who wish to improve their comprehension and speed in reading.

ENGLISH 64—SPEED READING (2) E.

Designed to meet the needs of business and professional people who want to increase their reading ability, and particularly their speed in reading.

FOREIGN LANGAGES

FRENCH 1—ELEMENTARY FRENCH (4) I.

Basic oral and aural French, pronunciation, reading, writing and inductive grammar; French life and culture.

Corresponds to first two years of high-school French.

FRENCH 2—(4) II.

Continuation of French 1 with emphasis on written translation.

Prerequisite: French 1 or two years of high-school French; a placement test may be required.

FRENCH 3—INTERMEDIATE FRENCH (4) I.

Continuation of French 2 with emphasis on oral fluency and written translations, deductive grammar, and passive knowledge of the finer points of grammar and style.

Prerequisite: French 2 or three years of high-school French; a placement test may be required.

FRENCH 4—(4) II.

Continuation of French 3. Readings and oral discussion in the language of short stories and extracts from the literature.

Prerequisite: French 3 or four years of high-school French; a placement test may be required.

FRENCH 51a-51b—(2-2) E.

First year terminal conversational French.

FRENCH 52a-52b—(2-2) E.

Second year terminal conversational French.

GERMAN 1—ELEMENTARY GERMAN (4) I.

Phonics, patterns of sentence structure and syntax, conversation and reading.

Corresponds to first two years of high-school German.

GERMAN 2—(4) II.

Continuation of German I.

Prerequisite: German 1 or consent of instructor; a placement test may be required.

GERMAN 3—INTERMEDIATE GERMAN (4) I.

Advanced conversation, extensive reading, composition, review of patterns of structure and syntax.

Prerequisite: German 2 or consent of instructor; a placement test may be required.

GERMAN 4—(4) II.

Continuation of German 3.

Prerequisite: German 3 or consent of instructor; a placement test may be required.

GERMAN 51α-51b—(2-2) E.

First year conversational German.

GERMAN 52α-52b—(2-2) E.

Second year terminal conversational German.

RUSSIAN 1—ELEMENTARY RUSSIAN (4) I.

The purpose of this course is to give intensive training in basic oral and written Russian. Emphasis is placed on the fundamentals of pronunciation, conversation, reading and grammar as they occur in the U.S.S.R. today.

RUSSIAN 2—(4) II.

Continuation of Russian 1. Emphasis is placed on reading, speaking and writing correctly within a selected Russian vocabulary.

Prerequisite: Russian 1 or two years of high-school Russian.

RUSSIAN 51α-51b—(2-2) E.

First year terminal conversational Russian.

RUSSIAN 52α-52b—(2-2) E.

Second year terminal conversational Russian.

SPANISH 1—ELEMENTARY SPANISH (4) I.

Basic aural and oral Spanish language structure; reading and writing; Latin American life.

SPANISH 2—(4) II.

Continuation of Spanish 1.

Prerequisite: Spanish 1 or two years of high-school Spanish; a placement test may be required.

SPANISH 3—INTERMEDIATE SPANISH (4) I.

Aural, oral and written Spanish language structure and review; readings in Spanish or Latin-American life and literature.

Prerequisite: Spanish 2 or three years of high-school Spanish; a placement test may be required.

SPANISH 4—(4) II.

Continuation of Spanish 3.

Prerequisite: Spanish 3 or four years of high-school Spanish; a placement test may be required.

SPANISH 51α-51b—(2-2) E.

First year terminal conversational Spanish.

SPANISH 52α-52b—(2-2) E.

Second year terminal conversational Spanish.

JOURNALISM

JOURNALISM 1—MASS COMMUNICATIONS (3) I, II.

A survey course covering all media of mass communications—newspapers, radio, television, magazines, book publishing, films, others—their strengths and weaknesses, and the major challenge to our free society, such as censorship, sensationalism, pornography, propaganda and monopoly. Extensive use of audio-visual materials and guest speakers. (Formerly Eng. 10a).

No prerequisites. Students are **not** required to work on campus publications.

JOURNALISM 2—ELEMENTARY JOURNALISM (3) I, II.

A basic journalism course in reporting, general news writing, and editing of publications, especially newspapers. Students will learn to cover newsworthy events, prepare copy, copyread, proofread, write headlines and prepare page layouts. In addition, Journalism 2 covers newspaper style and ethics. (Formerly Eng. 10b).

Prerequisite: A satisfactory score on the English placement test **or** previous newspaper experience (high-school, other college or professional). Students in Journalism 2 **are required** to assist with the production of THE CAMPUS, the weekly college newspaper, as part of their practical training.

JOURNALISM 3—NEWSPAPER PRODUCTION (2) I, II.

A laboratory course in practical journalism. Includes work in news writing, specialized writing (features, sports, columns, reviews), copy editing, page makeup and general editorial supervision. Students in Journalism 3 assist in the production of THE CAMPUS, the weekly college newspaper. (Formerly Eng. 12a).

Prerequisite: Journalism 2 or permission of the instructor.

JOURNALISM 4—ADVANCED REPORTING AND EDITING (2) I, II.

A laboratory course for students who have completed both Journalism 2 and Journalism 3. Designed for advanced students in editing positions in college publications, especially the weekly newspaper. Also includes work in special publicity and promotional projects, sports publicity and as campus correspondents for nearby newspapers. (Formerly Eng. 12b)

Prerequisites: Journalism 2 and Journalism 3.

JOURNALISM 5a-5b-5c-5d—YEARBOOK PRODUCTION (1-1-1-1) I, II.

Practical work on the yearbook and other student publications. Design, layout, composition, dummy, copy writing, advertising, financing, art and photography. (Formerly Eng. 11a-11b-11c-11d).

No prerequisite; however, previous publications work is preferred.

PHILOSOPHY

PHILOSOPHY 6—INTRODUCTION TO PHILOSOPHY (3) I.

This course in philosophy is presented by types or typical world views. It attacks fundamental problems by acquainting the student with representative thinkers and major philosophical systems, and is designed to make the subject as practical as possible.

Prerequisite: Eng. 1a or permission of the instructor.

PHILOSOPHY 7—INTRODUCTION TO ETHICS (3) II.

An introduction to the classical theories of moral philosophy and consideration of problems and solutions relative to contemporary questions of truth, right, goodness, and duty.

Prerequisite: Philos. 6.

PHILOSOPHY 10a-10b—HISTORY OF PHILOSOPHY (3-3) E.

This is a course in the history of philosophy, chronologically considered, treating the major philosophers from the pre-Socratic to the scientific era.

Prerequisite: None.

PHOTOGRAPHY

PHOTOGRAPHY 1a—BASIC PHOTOGRAPHY (3) I, II.

Two hours lecture and three hours laboratory a week.

Theory and practice of photography.

Basic knowledge and skill in the use of photographic chemicals and equipment while photographing a variety of technical and artistic subjects.

PHOTOGRAPHY 2a-2b-2c—ADVANCED PHOTOGRAPHY LABORATORY (1-1-1) I, II.

A three-hour laboratory course designed to acquaint students with some of the more advanced techniques of the photographic processes.

Prerequisite: Photography 1a.

PHOTOGRAPHY 51—ELEMENTARY PHOTOGRAPHY (1) E.

A lecture course designed to give knowledge of the fundamentals of the photographic process.

PHOTOGRAPHY 52—ELEMENTARY PHOTOGRAPHY (1) I, II, E.

A two-hour laboratory course to acquaint the student with the fundamental techniques of the photographic process.

Prerequisite: To be taken concurrently with Photography 51 or with the instructor's permission.

Registration is limited to one semester.

LIBRARY SCIENCE

LIBRARY SCIENCE 50a-50b-50c-50d—(1-1-1-1) I, II.

A course of training in the use of books and libraries for students who wish to learn how to use libraries with greater efficiency, and for those who are interested in librarianship as a vocation. Two or four practice periods per week.

DIVISION OF PHYSICAL EDUCATION, HEALTH AND ATHLETICS

PHYSICAL EDUCATION

PHYSICAL EDUCATION—GENERAL ACTIVITY ($\frac{1}{2}$ each) I, II.

Physical Education 1a-1b—Archery.

Physical Education 2a-2b—Badminton.

Physical Education 3a-3b—Bowling.

Physical Education 4a-4b—Boxing.

Physical Education 5a-5b—Folk and Square Dance.

Physical Education 6a-6b-6c-6d—Modern Dance.

Physical Education 7a-7b—Social Dance.

Physical Education 8a-8b—Golf.

Physical Education 9a-9b—Swimming.

Physical Education 10a-10b-10c-10d—Tennis.

Physical Education 11a-11b—Tumbling.

Physical Education 12a-12b—Weight Lifting.

Physical Education 13a-13b-13c-13d—Wrestling.

Physical Education 14a-14b—Cross Country.

Physical Education 15a-15b-15c-15d—General Activities—Not Listed.

Physical Education 16a-16b—Choreography.

Physical Education 17a-17b—Physical Fitness for Men*.

Physical Education 18a-18b—Police Defense (Police Science majors only).

Physical Education 19a-19b—Postural Development for Women.

Physical Education 20a-20b—Physical Fitness for Women (E).

Physical Education 21a-21b—Trampoline and Diving.

Physical Education 22a-22b—Special Competitive Tennis (1-1) I.

* Freshman/first-year requirement.

No physical education activity course may be repeated. An advanced course will be offered to the fourth-semester student. Grades in courses 1-21 are assigned on "S" (satisfactory) or "U" (unsatisfactory) basis.

PHYSICAL EDUCATION 30a—FUNDAMENTALS OF RHYTHM AND DANCE
(2) II.

Designed to introduce physical education majors to the meaning of rhythm and its importance to modern, folk, square and social dances.

Lecture—Laboratory.

Prerequisite: Physical Education 6a.

PHYSICAL EDUCATION 30b-30c—FUNDAMENTALS OF TEAM SPORTS

(2-2) I, II.

Practical theory course of advanced techniques, skills and official rules of team sports. Volleyball, basketball, field hockey, and softball for women physical education majors and minors.

One hour lecture, three hours laboratory.

Prerequisite: Physical education major or minor or by permission of instructor.

PHYSICAL EDUCATION 31—ORIENTATION IN PHYSICAL EDUCATION (2) I.

Introduction to the physical education program, personal, social, professional requirements, and demands.

PHYSICAL EDUCATION 35—LIFE SAVING AND WATER SAFETY (1) I, E.

Lecture-laboratory. Advanced skills, life saving, and water safety, including the opportunity to qualify for the American Red Cross Senior Life Saving Certificate.

Prerequisite: Satisfactory completion of Physical Education 9a or permission of instructor.

PHYSICAL EDUCATION 36—WATER SAFETY INSTRUCTORS' COURSE

(1) II, E.

Lecture and laboratory. Review of Senior Life Saving, swimming skills and water safety with the opportunity to qualify for the American Red Cross Water Safety Instructor's Certificate. Techniques, material and methods of teaching included.

Prerequisite: Senior Life Saving certificate.

PHYSICAL EDUCATION 45a—FUNDAMENTALS OF AQUATICS (1) II.

For men and women physical education majors. Analysis of swimming strokes, diving, life saving.

Prerequisite: Intermediate skill.

PHYSICAL EDUCATION 45b—FUNDAMENTALS IN TENNIS (1) I.

For men and women physical education majors. Analysis of strokes, tactics, rules, history.

Prerequisite: Intermediate skill.

PHYSICAL EDUCATION 45c—FUNDAMENTALS OF BADMINTON-GOLF (1) II.

For men and women physical education majors. Analysis of badminton and golf in relation to secondary school physical education programs.

PHYSICAL EDUCATION 45d—FOLK, SQUARE AND SOCIAL DANCE (1) I.

For men and women physical education majors. Elementary leadership in folk, square, and social dance.

Prerequisite: Physical Education 5a and 7a.

Inter-Collegiate Activities

The 50 and 60 courses are for students who excel in athletic ability and wish to participate in the inter-collegiate program competing against other junior colleges within the North Central California Junior College Region. These students participating in this program are also expected to work toward demonstrating minimum ability in at least one activity in any one of the several recreational groups which is not a duplicate of their team activities. Students intending to enter this program are advised to plan their regular schedule to include a minimum of ten hours per week during the seasons of each competitive sport entered.

Grades in classes marked 50 to 60 are assigned on A, B, C, D, F basis.

Physical Education 50a-50b—Varsity Football (1-1) I.

Physical Education 51a-51b-51c-51d—Varsity Basketball (1-1-1-) I, II.

Physical Education 52a-52b—Varsity Baseball—(1-1) II.

Physical Education 53a-53b—Varsity Track (1-1) II.

Physical Education 54a-54b—Varsity Tennis (1-1) II.

Physical Education 55a-55b—Varsity Swimming (1-1) II.

Physical Education 56a-56b—Varsity Boxing (1-1) II.

Physical Education 57a-57b—Varsity Golf (1-1) II.

Physical Education 58a-58b—Varsity Cross Country (1-1) I.

Physical Education 59a-59b—Varsity Wrestling (1-1) II.

Physical Education 60a-60b—Varsity Waterpolo (1-1) I.

Physical Education 65a-65b-65c-65d—Special Sports Activity (N/C) I, II.

HYGIENE

HYGIENE 1—(2) I, II, E.

A general course including the facts necessary for intelligent maintenance of physical and mental health and a scientific discussion of the effects of narcotics and alcohol. Interpretation of life processes; a study of the principal body systems and of the hygiene and first aid assorted with each; includes fire prevention. Fulfills state requirements.

HYGIENE 3—RED CROSS FIRST AID (1) I, II, E.

The American Red Cross Standard First Aid Course includes fire prevention.

MILITARY

MILITARY 1—MILITARY SCIENCE (4)

Satisfactory completion of at least one year of training in the military service of the United States.

DIVISION OF SCIENCE, MATHEMATICS AND ENGINEERING

ARCHITECTURE AND ARCHITECTURAL ENGINEERING

ARCHITECTURE 1 α —INTRODUCTION TO ARCHITECTURAL DESIGN (2) I.

Familiarization with the professional fields of architecture, engineering, and city planning. Introduction to design process and development as a basis of architectural analysis. One lecture and three laboratory hours per week.

Prerequisite: Mechanical drawing.

ARCHITECTURE 1 b —INTRODUCTION TO ARCHITECTURAL DESIGN (2) II.

Continuation of Architecture 1 α , stressing critical evaluations of man's environment. A study of visual phenomena with application to elementary composition, dealing with line, area, color and materials. One lecture and three laboratory hours per week.

Prerequisite: Arch 1 α .

ARCHITECTURE 2 α —INTRODUCTION TO ARCHITECTURAL DRAWING AND PERSPECTIVES (3) I.

Basic techniques used in graphic communication. Orthographic and isometric projection. Mechanical perspective, shades and shadows. Two lectures and four laboratory hours per week.

Prerequisite: Mechanical drawing and plane geometry.

ARCHITECTURE 2 b —DELINEATION (3) II.

Three-dimensional representations with various drawing media which will enable the student to express his architectural ideas. Two lectures and four laboratory hours per week.

Prerequisite: Arch. 2 α .

ARCHITECTURE 6 α —MATERIALS OF CONSTRUCTION (2) I.

The use and application of building materials, and the structural make-up of buildings. Two lecture hours per week.

ARCHITECTURE 6 b -6 c —STRENGTH OF MATERIALS (2-2) Yr.

Physical properties of construction materials. Moment and shear diagrams, axial eccentric loading, and deflection. Sizing of structural members of homogeneous and compound materials Two lecture hours per week.

Prerequisites: Math. 1 α , Physics 4 α (2 α -2 b).

ARCHITECTURE 31—WOOD-FRAME CONSTRUCTION (2) II.

Using architectural practices in plan, elevation and section, while developing a set of plans for a residence. One lecture and three laboratory hours per week.

Prerequisites: Arch. 2 α , Arch. 6 α .

ARCHITECTURE 32—HEAVY WOOD-FRAME CONSTRUCTION (2) I.

Construction techniques and working drawings for heavy wood-frame structures. Theory and application of laws and codes affecting buildings. Cost-estimating procedures. One lecture and three laboratory hours per week.

Prerequisite: Arch. 31.

ARCHITECTURE 33—STEEL-FRAME CONSTRUCTION (2) II.

Construction techniques and working drawings for steel-frame structures. Theory and application of laws and codes affecting buildings. One lecture and three laboratory hours per week.

Prerequisite: Arch. 32.

ARCHITECTURE 40—FREEHAND DRAWING (1) I.

An introduction to basic principles of graphic representation; studio practice emphasizes fundamentals of drawing and pictorial organization in dark and light. Use of pencil, pen-brush and ink, charcoal, and scratch-board techniques. One lecture and one laboratory hour per week.

ARCHITECTURE 51 α -51 b —TRADE DRAWING-BUILDING TRADES (2-2) Yr., E.

One lecture and three laboratory hours per week.

A practical course in drawing for the building trades including the fundamentals of mechanical drawing; introduction to architectural drafting and blue print reading, details, symbols, and specifications.

ENGINEERING

ENGINEERING 1 α -1 b —SURVEYING (3-3) Yr.

Two hours lecture and three hours field work per week.

Fundamental principles and practice in methods of land and route surveying.

Prerequisites: Trigonometry and mechanical drawing. These may be taken concurrently.

ENGINEERING 8—MATERIALS OF ENGINEERING CONSTRUCTION (3) I.

Two hours lecture per week, two hours laboratory per week.

Structural properties and use of various materials.

Prerequisite: Physics 4 α .

ENGINEERING 22—ENGINEERING DRAWING (3) I, II, E.

Two lecture and four laboratory hours per week.

Geometric construction; freehand pictorials; theory of orthogonal projection; simple auxiliaries; sectioning; fasteners; dimensioning; simple working drawing.

Prerequisites: Mathematics 51 and Engineering 52 or one year of high school mechanical drawing. It is recommended that students take Mathematics 52 concurrently with Engineering 22.

ENGINEERING 23—DESCRIPTIVE GEOMETRY (3) I, II.

The fundamental principles of descriptive geometry and their application to the solution of three-dimensional problems arising in the various branches of engineering. Two lecture and four laboratory hours per week.

Prerequisites: Engr. 22 and plane geometry. Engr. 22 may be taken concurrently.

ENGINEERING 24—ADVANCED ENGINEERING DRAWING (3) I, II.

Two lecture and four laboratory hours per week.

Cams and gears, detail and assembly drawings of machine parts; free-hand sketches; structural detailing; piping layouts; application of American standards in drafting room practice; tolerances; classes of fit and machining specifications.

Prerequisite: Engineering 22.

ENGINEERING 26—MACHINE DESIGN (3) I, II.

Two lecture and four laboratory hours per week.

Design of original machines or parts which can subsequently be made in the college shop. Production drafting methods are followed as closely as possible.

Prerequisite: Engineering 24.

ENGINEERING 28—ENGINEERING GRAPHICS (4) I, II, E.

Three lecture and three laboratory hours per week.

Fundamental principles of orthogonal projection, graphical solution and computations, and an introduction to conceptual design with emphasis on freehand sketching.

Prerequisites: Engineering 52 and a satisfactory score on the Mathematics proficiency test.

ENGINEERING 35—STATICS (3) II.

Three lectures per week.

Force systems and equilibrium conditions as applied to engineering problems.

Prerequisites: Physics 4a; Mathematics 2a.

ENGINEERING 50a-50b—BLUEPRINT READING (2-2) E.

A survey course designed to convey an understanding of basic engineering symbols and to interpret blueprints in terms of the common objects and devices related to the engineering field.

ENGINEERING 52—MECHANICAL DRAWING (2) I, II, E.

One lecture and three laboratory hours per week.

A rapid comprehensive coverage of the fundamentals of mechanical drawing and modern drafting practice; lettering; geometric drawings; orthographic projection, pictorial representation, and blueprinting.

ENGINEERING 60a-60b—ELEMENTARY PROBLEMS IN ENGINEERING (2-2) E.

A preview of the engineering field with problems in logarithms, slide rule, dimensional analysis, trigonometry, mechanics, uniform motion, friction, work, power, energy, and forces.

MATHEMATICS

MATHEMATICS 50—REVIEW OF ARITHMETIC FUNDAMENTALS (2) I, II, E.

Drill in the fundamentals with emphasis on fractions, decimals and percentages.

MATHEMATICS 51—ELEMENTARY ALGEBRA (3) I, II, E.

An intensive one-semester course in elementary algebra covering fundamental operations, linear equations, factoring, graphing, exponents, and radicals. This course is given for students who are deficient in high-school algebra. It may not be repeated for credit if previously passed in high school or college. (Formerly Math. A)

MATHEMATICS 52—PLANE GEOMETRY (3) I, II, E.

An intensive one-semester course in the elements of plane geometry covering rectilinear figures, the circle, similar figures, ratio and proportion, and area of plane figures. This course is given for students who are deficient in high school geometry. It may not be repeated for credit if previously passed in high school or college. (Formerly Math. B)

MATHEMATICS 53—INTERMEDIATE ALGEBRA (3) I, II, E.

Rapid review of elementary algebra; exponents; radicals; progressions; quadratic equations; systems of equations; logarithms; the binomial theorem. This course may not be repeated for credit if previously passed in high school or college. (Formerly Math. D)

Prerequisite: One year of high-school algebra. This course is not open to students who have received credit for two years of high school algebra.

MATHEMATICS 54—TRIGONOMETRY (3) I, II, E.

Trigonometry functions of any angles; logarithms; solutions of triangles; trigonometry equations. This course may not be repeated for credit if previously passed in high school or college. (Formerly Math. C)

Prerequisites: One and one-half years of high school algebra and plane geometry.

MATHEMATICS 1r—FUNDAMENTALS OF COLLEGE ALGEBRA (2) I, II, E.

Fundamentals of college algebra designed to build the student's background and to prepare him for the study of analytic geometry and calculus. Special emphasis on modern mathematics. May be taken concurrently with Math 1a.

Prerequisite: One and one-half years of high-school algebra or Math. 53.

MATHEMATICS 1a-1b—ANALYTIC GEOMETRY AND CALCULUS (4-4) I, II.

Elements of analytic geometry, introduction to differential and integral calculus with applications.

Prerequisite: Satisfactory proficiency in the mathematics placement test.
Math. 1b: Math. 1a and grade of "C" or better.

MATHEMATICS 2 α -2 β —CALCULUS CONTINUED AND SPECIAL TOPICS
(4-4) I, II.

Thorough technique of differential and integral calculus. Partial differentiations, multiple integrals, differential equations, series, fouriers series, complex numbers and vector analysis.

Prerequisites: Mathematics 1 α -1 β , grades of "C" or better.

MATHEMATICS 15—INTRODUCTION TO COMPUTER MATHEMATICS (3) I.

Number systems; introduction to logic; algorithms for problem solving; machine language.

Prerequisite: Math. 1 α and grade of "C" or better.

MATHEMATICS 16 α -16 β —REVIEW OF CALCULUS (3-3) E.

Intensive review of undergraduate mathematics through integral calculus. Special emphasis and time will be placed on topics of particular interest to the class. The course is for those who have previously studied calculus and wish a rapid resume of theory and applications in preparation for further course work in mathematics and sciences.

MATHEMATICS 19—SLIDE RULE (1), I, II, E.

Adjustment, operation and theory of the slide rule, interpolation and graphical methods. Use of scales A, B, C, CF, CI, DF, K and L. Two hours per week during the first half of the semester. A general education course recommended for students of science or technology.

Prerequisite: Math. 53; may be taken concurrently.

MATHEMATICS 20—SLIDE RULE (1) I, II, E.

Use of all scales on the log-log slide rule. Trigonometric functions, solution of triangles, theory of logarithms, exponential equations and graphical methods. Two hours per week during the second half of the semester.

Prerequisites: Math. 54 and Math. 19; Math. 54 may be taken concurrently.

MATHEMATICS 21—ELEMENTARY STATISTICS (3) II, E.

Emphasis on statistical methods, frequency distribution, sampling, estimation, hypothesis testing, correlation, regression, measures of central tendency.

Prerequisite: Math. 53.

MATHEMATICS 22—MATHEMATICS OF FINANCE (3) I.

A study of graphs, logarithms, statistics, interest, annuities, life insurance, amortization, sinking funds, valuation of bonds, and depreciation.

Prerequisite: Two years of high-school algebra or Math. 53.

SCIENCES

Biological Sciences

ANATOMY 1—HUMAN ANATOMY (4) I.

Three hours lecture and three hours laboratory per week.

A study of the body first as an integrated whole, followed by a consideration of the organ systems in succession with enough histology to make the study of gross structures more meaningful. Designed to meet the requirements for pre-nursing course and a cultural course in human biology.

Prerequisite: None. High school biology and chemistry are recommended.

ANATOMY 2—HUMAN ANATOMY (3) E.

A non-laboratory course covering the same subject matter as Anatomy 1.

ANATOMY 3—ANATOMY LABORATORY (1) E.

A laboratory course intended to supplement the material covered in Anatomy 2. Three hours per week.

Prerequisite: Anatomy 2, which may be taken concurrently.

Anatomy 2 and Anatomy 3 are the equivalent of Anatomy 1 offered on the day schedule.

BACTERIOLOGY 1—GENERAL BACTERIOLOGY (5) II.

Three hours lecture and six hours laboratory per week.

Lectures cover morphology, biochemical activities, physical and chemical agents of destruction, infection and disease, bacteriology of industry, and elements of taxonomy.

Laboratory covers staining techniques, biochemical activities and classification, and exercises correlated with the major field of study of the individual student.

Prerequisites: Chemistry 1a, Chemistry 8, and a course in Anatomy or Botany, or Physiology or Zoology.

Students without Chemistry 8 who are second-semester sophomores may be granted permission to take Bacteriology 1 by the instructor if they have had Chemistry 1a or 2a-2b plus eight units of college-level life science. Such permission does not infer that full transfer credit will be obtained when transferring to a school requiring a prerequisite of Chemistry 8. Such schools usually grant credit for their equivalent of Bacteriology 2 when all requirements are not satisfied.

BACTERIOLOGY 2—GENERAL MICROBIOLOGY (4) I.

Two hours lecture and six hours laboratory per week.

This course is designed to give pre-nursing, home economics, and agricultural majors an understanding of the principles of microbiology. Covers types of organisms, their biochemical activities, microbiology of industry, diseases of plants, animals, and man.

This course is not for biology, botany, microbiology, or zoology majors.

Prerequisite: Chemistry (may be taken concurrently).

BIOLOGY 1a—PLANT BIOLOGY (3) I, II.

Two hours lecture and three hours laboratory per week.

A survey course of the plant kingdom designed to enrich cultural background of any student, and serve as a prerequisite for further study in biology. Not open to students who have had a previous college course in Botany.

BIOLOGY 1b—ANIMAL BIOLOGY (3) I, II, E.

Two hours lecture and three hours laboratory per week.

A survey of the animal kingdom designed to enrich the cultural background of any student, and serve as a prerequisite for further study in biology. Not open to students who have had a previous course in zoology.

Biology 1a is not a prerequisite to Biology 1b.

BIOLOGY 51—HUMAN BIOLOGY (3) I.

Two hours lecture, two hours demonstration-laboratory per week.

A general education science survey course for students who do not plan to continue their formal education beyond two years of college. The course surveys the structure, function and diseases of the organ systems of the body. This course is not intended for pre-nursing students or other students whose majors include an anatomy or physiology requirement.

BOTANY 1—GENERAL BOTANY (5) I, II.

Three hours lecture and six hours laboratory per week.

An introductory study of the basic principles of plant morphology, taxonomy, ecology, physiology, heredity, and evolution.

ENTOMOLOGY 82—ECONOMIC ENTOMOLOGY (3) I, E.

General study of western insects: life cycles, economic importance and control. Corresponds to Agriculture 82.

NATURE STUDY 10a—NATURE STUDY FOR ELEMENTARY TEACHERS (3) I.

Two hours lecture and three hours laboratory.

A nature approach to the study of the more common animals, plants, and natural phenomena. Subject matter for the fall semester will be obtained from the exploration of large areas such as: the vacant lot, the seashore, the creek or pond, signs of winter, and animals of city and country. Some Saturday field trips required.

NATURE STUDY 10b—NATURE STUDY FOR ELEMENTARY TEACHERS (3) II.

Two hours lecture and three hours laboratory.

A nature study approach to the study of the more common animals, plants, and natural phenomena. Subject matter for the spring semester will be obtained from the exploration of such areas as: the stars above us; the earth and its rock, signs of spring, the open fields in spring, how plants grow, etc. Some Saturday field trips required.

PHYSIOLOGY 1 α —INTRODUCTORY PHYSIOLOGY (3) II.

Three hours lecture per week.

A survey of the systems of the body and their functions. Special emphasis placed upon the functional interrelationships of the neuro-muscular, circulatory, respiratory, digestive, and endocrine systems. This course will satisfy the requirements of pre-nursing and physical education majors, and of a general cultural course in life sciences.

Prerequisite: None. Anatomy 1 α is recommended. Physiology 1c should be taken concurrently.

PHYSIOLOGY 1c—INTRODUCTORY PHYSIOLOGY LABORATORY (1) or (2) II.

Three or six hours laboratory per week.

A course covering experimental phases of the lecture material. The experiments cover nerve muscle preparation and recordings, sensory apparatus, blood pressures and clinical blood examinations, respirations, chemistry of food, urinalysis.

Prerequisite: Physiology 1 α , which may be taken concurrently.

Note: Students should check the requirements of the college to which they intend to transfer before signing up for less than two units of laboratory.

ZOOLOGY 1 α -1b—GENERAL ZOOLOGY (4-4) Yr.

Two hours lecture and six hours laboratory per week.

Introductory study of the basic principles of animal morphology, taxonomy, ecology, physiology, embryology, heredity, and evolution. This course satisfies the zoology requirements of pre-medicine, dentistry, agriculture.

Physical Sciences

ASTRONOMY 10—SURVEY OF ASTRONOMY (3) I, II, E.

Three hours lecture per week.

A non-technical course in astronomy with emphasis on an understanding and appreciation of the wonders of the universe combined with a study of the constellations: One or more evening observation periods required.

Prerequisite: High-school algebra and geometry recommended.

CHEMISTRY 1 α -1b—GENERAL CHEMISTRY (5-5) I, II.

A study of the fundamental theories and laws of chemistry with an emphasis on the mathematical treatment of chemistry rather than the general aspects and introduction to laboratory qualitative analysis. This course is for those intending to enter professional fields which require chemistry as a foundation. Three hours lecture, six hours laboratory per week.

Prerequisites: High-school chemistry with a minimum grade of "C," Algebra II, and acceptable score on placement test.

CHEMISTRY 2 α -2b—GENERAL CHEMISTRY (3-3) Yr.

Two hours lecture and three hours laboratory each week.

A study of the fundamental theories and laws of chemistry.

Prerequisite: High-school chemistry, or permission of the instructor.

CHEMISTRY 5—QUANTITATIVE ANALYSIS (3) II.

One hour lecture, one hour recitation, six hours laboratory per week.

Fundamental principles of quantitative analysis with a theoretical treatment of the laws and theories which apply and general instructions in various methods of gravimetric and volumetric analysis. For students interested in medicine, clinical work, petroleum, or chemical industries in general.

Prerequisites: Chemistry 1a or 1b with a grade of "C" or better.

CHEMISTRY 8—ORGANIC CHEMISTRY (3) I.

Three hours lecture per week.

Fundamental theories and laws of chemistry of the aliphatic and aromatic carbon compounds. Designed primarily for majors in pre-medicine, pre-dentistry, related biological fields, and engineering.

Prerequisite: Chemistry 1a or 1b with a grade of "C" or better.

CHEMISTRY 9—ORGANIC CHEMISTRY (3) I.

One hour lecture and six hours laboratory per week.

A study of the properties and reactions of the common types of carbon compounds. Designed as the laboratory for Chemistry 8.

Prerequisite: Chemistry 8, which may be taken concurrently.

CHEMISTRY 53—GENERAL CHEMISTRY (3) I, II, E.

An introduction to the theories, laws and concepts of chemistry. Practical application of chemistry in daily living will be stressed. This course is suitable for students needing an introductory course in chemistry before studying Chemistry 1a. It will satisfy, in most cases, the chemistry requirements for students not interested in a four-year degree, but who plan to enter pre-nursing hospital training program. Three hours lecture, two hours laboratory per week.

GEOLOGY 1a—PHYSICAL GEOLOGY (3) I, II, E.

Four hours lecture and laboratory per week.

A consideration of the composition and structure of the earth, and the internal and external processes which modify the crust and surface. One or more field excursions on Saturdays.

Prerequisite: None. Chemistry recommended.

GEOLOGY 1b—HISTORICAL GEOLOGY (3) II.

Three hours lecture per week.

A study of the geological history of the earth, as shown by the changing patterns of land and sea, and by succession of flora and fauna. One or more field excursions on Saturdays.

Prerequisite: Geology 1a, or Geology 10.

GEOLOGY 10—SURVEY OF PHYSICAL GEOLOGY (3) E.

A survey of the nature and structure of the materials composing the earth and of the processes that shape the earth's surface. Field trips.

Not open to students who have taken or are taking Geology 1a.

METEOROLOGY 1—ELEMENTARY METEOROLOGY (3) I, II, E.

Three hours lecture per week.

A brief general course, designed to give the student an insight into the physical processes and laws underlying the phenomena of weather and climate. Meets the needs of the general student in addition to covering the specialized material ordinarily required for the commercial pilot ground curriculum.

PALEONTOLOGY 10—(3) II.

Two lectures and one demonstration section per week.

General principles of the history of life. Structures and development of animals and plants revealed in the fossil record. One or more field excursions on Saturdays.

Prerequisite: None. Biology 1a or Geology 1a recommended.

PHYSICAL SCIENCE 10—PHYSICAL SCIENCE SURVEY (3) I, II, E.

Physical science survey, not open to students with credit in college physics. Elementary astronomy and physics; mechanical, magnetic, electrical and optional principles with applications to modern scientific developments.

PHYSICAL SCIENCE 11—PRACTICAL PROBLEMS IN ELECTRICITY (3) II.

Six hours per week.

Fundamentals of electricity; application to industry and everyday life; practical problems and projects. Demonstration aids are constructed in the shop laboratory.

PHYSICAL SCIENCE 12—CHEMISTRY SURVEY (3) I, II, E.

Not open to students with college credit in college chemistry. Fundamental concepts of chemistry, principles and their applications, contributions of chemical sciences to everyday living and industrial development. Lecture, demonstration.

PHYSICAL SCIENCE 53—MODERN SCIENCE (3) I, II.

This course is designed to provide exploration and discussion of selected principles of the physical sciences that can be meaningfully applied in the interpretation of contemporary developments in science technology, space-age science and consumer science. The knowledge of vocabulary and mathematical skills to be employed in the course will be such that terminal-program students should not experience difficulty.

PHYSICS 2a-2b—GENERAL PHYSICS (4-4) Yr.

Three hours lecture per week, plus three hours laboratory.

Survey in physics covering properties of matter, mechanics, heat, sound, light, electricity, and magnetism. Required for pre-medical students. May be taken by other students as an elective to satisfy science requirements.

Prerequisite: Trigonometry or Mathematics 54.

PHYSICS 4 α —GENERAL PHYSICS (4) I, II.

Three hours lecture and three hours laboratory each week.

Fundamental treatment of the general principles of physics for the pre-engineer and pre-physical scientist. The topics considered in this first course are mechanics, properties of matter, sound, and wave motion.

Prerequisite: Mathematics 1 α . High-school physics and/or high-school chemistry recommended.

PHYSICS 4b—GENERAL PHYSICS continued (4) I, II.

Three hours lecture and three hours laboratory each week.

Fundamental theoretical treatment of electricity, magnetism, and electronics.

Prerequisite: Physics 4 α ; Mathematics 2 α concurrently.

PHYSICS 4c—GENERAL PHYSICS continued (4) II.

Three hours lecture and three hours laboratory each week. Heat, optics, radiant energy, atomics, nucleonics.

Prerequisite: Physics 4 α -4b; Mathematics 2b concurrently.

PHYSICS 6—CIRCUIT ANALYSIS (3) II.

Elements of electrical circuit analysis, with emphasis on solutions of circuit problems.

Prerequisite: Physics 4 α -4b.

PHYSICS 19 α -19b—ELEMENTARY ELECTRONICS (3-3) E.

Three hours lecture each week.

A lecture-demonstration course for the beginner. It is designed to develop an ability to reason how electronics will react when under the influence of electric and magnetic fields within conductors and electron tubes. Recommended to take Physics 23 α -23b concurrently.

PHYSICS 23 α -23b—ELECTRONICS LABORATORY (1-1) Yr.

Three hours laboratory per week. Time to be devoted to electronic tests and measurements.

Designed to accompany Physics 19 α -19b.

PHYSICS 45—ELEMENTARY NUCLEAR PHYSICS (2) II.

Non-mathematical theoretical approach to atomic structure, to practical atomic energy and their application to the modern world. Demonstrations of radioactivity will be given, Ionization survey chambers, pocket dosimeters, geiger counters, as used in the laboratory and in civil defense by the state of California will be utilized. Elementary physics or chemistry desirable though not required.

PHYSICS 53—FUNDAMENTALS OF PHYSICS (3) E.

An introductory survey course giving practical emphasis and illustrations of the important phenomena of physics.

No prerequisite is required, though a course in simple mathematics would be useful.

PHYSICS 61—ELECTRICITY (3) E.

Three hours lecture and two hours laboratory per week.

An elementary course covering electricity, magnetism, and electronics.

PHYSICS 62—INDUSTRIAL ELECTRONICS (2) E.

Two hours lecture and two hours laboratory per week.

A continuation of Physics 61 covering certain industrial applications.

Prerequisites: High-school algebra and trigonometry are recommended.

PHYSICS 63 α -63 b —

GENERATING AND TRANSMISSION OF ELECTRICAL POWER (3-3) E.

Principles of electricity applied to generation, transmission and distribution of electrical power by public utility systems.

DIVISION OF SOCIAL SCIENCES

ANTHROPOLOGY

ANTHROPOLOGY 10—CULTURAL ANTHROPOLOGY (3) I, II, E.

The nature of culture, culture growth and history. Survey of cultural phenomena, cultural theory, applied anthropology.

ECONOMICS

ECONOMICS 1a-1b—PRINCIPLES OF ECONOMICS (3-3) I, II, E.

An introduction to the fundamental principles of economics. The areas of production, exchange, consumption, and distribution of the rights to use goods are studied with particular emphasis placed upon factors influencing prices, the nature of capitalism, the role of government in economic life, and special economic problems confronting the United States.

Sophomore standing recommended. Economics 1a is a prerequisite to Economics 1b.

ECONOMICS 10—FUNDAMENTALS OF ECONOMICS (3)

A study of the general principles underlying economic activity and their relation to present American economic conditions and problems. This is for the student who desires a less intensive course than that presented in Economics 1a-1b.

ECONOMICS 51—THE AMERICAN ECONOMY (3) I, II.

A course which is designed to give the student an understanding of the economic forces in our society. Emphasis will be given to current economic problems that are faced by the consumer and the businessman.

GEOGRAPHY

GEOGRAPHY 1—ELEMENTS OF GEOGRAPHY (3) E.

A systematic study of the physical elements of geography: climate, and forms, map projections, natural vegetation, soils, combined with a study of the world's natural regions, the physical patterns of the earth's surface.

GEOGRAPHY 2—REGIONAL GEOGRAPHY (3) I, II, E.

A study of the major regions of the world and their constituent countries. The physical setting, population patterns, natural resources, and economic development of each country covered.

HISTORY

HISTORY 4a-4b—HISTORY OF WESTERN CIVILIZATION (3-3) Yr.

The evolution of western civilization from antiquity to the contemporary scene. The course presents a general perspective through a consideration of the development of western economic, political, and social institutions. The aim is to lay a foundation for the understanding of contemporary problems and cultures.

HISTORY 8α-8b—HISTORY OF THE AMERICAS (3-3) Yr., E.

A general survey of the history of North, Central, and South America. Emphasis the first semester is on the European inheritance, colonial development and international rivalry, and the wars of independence. The second semester covers the development of the American nations, and their inter-relations during the nineteenth and twentieth centuries.

This six-unit course fulfills state requirements in American history.

HISTORY 10—UNITED STATES HISTORY (3) I, II, E.

This course is designed, when used with Political Science 5, to fulfill the state requirement in American history for the transfer student. A brief survey of the development of the American economic, political, and social institutions. Traces the founding of the American colonies, the American revolution, the western movement, the era of sectional conflict, and the recent history of the United States.

HISTORY 17α-17b—HISTORY OF THE UNITED STATES (3-3) Yr.

A detailed study of the history of the United States from the colonial period to the present. History 17α covers the period of United States history from the colonial period through the Civil War. History 17b covers the period from the Civil War to the present. Social, cultural, intellectual and political developments are presented as a part of the development of American democracy.

This six-unit course fulfills state requirements in American history and is recommended for university transfer students.

HISTORY 51—UNITED STATES HISTORY (3) I, II.

A survey of the development of American economic, political and social institutions.

This course fulfills state requirements in American history.

This course is designed primarily for those students not interested in transferring to a four year institution.

POLICE SCIENCE

POLICE 1—INTRODUCTION TO LAW ENFORCEMENT (3) I.

The philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state and federal law enforcement agencies, survey of professional opportunities and qualifications required.

POLICE 10—THE ADMINISTRATION OF JUSTICE (3) I, E.

A study of the purpose, function and practical aspects of agencies dealing with the administration of justice. Specific emphasis is placed on legal procedures and systems from arrest to release.

POLICE 12—POLICE ADMINISTRATION (3) II, E.

The organization, administration, and management of municipal police departments.

POLICE 15—POLICE RECORDS AND REPORTS (3) II.

A study of the structure and functions of the police record system from the administration aspect; complaint records; criminal files; cross index techniques; modus operandi; report writing; descriptions of persons and property; collateral police records; police statistical method and prediction of significant trends.

Prerequisite: Sophomore standing.

POLICE 20—CRIMINAL LAW (3) II.

The structure, definitions and most commonly used sections of the Penal Code and other criminal statutes.

Prerequisite: Police 1 or consent of instructor.

POLICE 22—CRIMINAL EVIDENCE (3) I, E.

The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

Prerequisite: Police 20.

POLICE 30—JUVENILE PROCEDURES (3) II.

The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile status and court procedures.

Prerequisite: Sophomore standing.

POLICE 32—CORRECTIONS (3) E.

The history, principles and practices of probation, corrections and parole.

POLICE 40—TRAFFIC CONTROL (3) II, E.

Prerequisite: Police 1 or consent of instructor.

POLICE 43 α —PATROL PROCEDURES (3) I.

Responsibilities, techniques and methods of police patrol.

Prerequisites: Police 20, 22.

POLICE 43b—CRIMINAL INVESTIGATION (3) II.

Fundamentals of investigation; crime scene search; recording data; collection and preservation of evidence; scientific aids; modus operandi; principles of interrogation; follow-up and case preparation.

Prerequisite: Police 43 α .

POLICE 45 α -45b—FIREARMS (1-1) Yr.

The moral aspects, legal provisions, safety precautions and restrictions covering the use of firearms; hand weapon and special arms training.

Prerequisite: Sophomore standing, and Police Science Major.

POLICE 49—POLICE SCIENCE INTERNSHIP (3) I, II.

An internship with a local law enforcement agency in which the student applies classroom skills to actual police situations in the many phases of the field.

Prerequisite: Open to sophomore police science majors selected by the instructors.

POLICE 56—CRIMINAL IDENTIFICATION (3) E.

Theory and practice in the study of fingerprints, description of persons, and modus operandi in its application to individual characteristics.

POLICE 60a-60b-60c-60d-60e-60f—POLICE TRAINING FOR PEACE OFFICERS (1-18) E.

Includes the study of laws of arrest, evidence, penal code, report writing, court appearance, field note taking, investigation, beat patrol, interrogation and public and race relations. This course is geared to meet the needs of peace officers and law enforcement agencies of this area.

POLICE 61—PRINCIPLES OF INTERROGATION (2) E.

Designed to develop basic skills and understanding in the field of interrogation, this course emphasizes techniques, scientific aids and mechanics. Stressed are the importance of morally and legally sound interrogation techniques, problems of semantics, levels of communication, potential subjects, fundamental procedures, and rules of law regarding admissions, confessions and statements.

POLICE 80—BUS DRIVER EDUCATION (1) E.

Study of the California Vehicle Code and related laws with reference to bus driver and passenger safety.

POLICE 82—PEACE OFFICERS' BASIC TRAINING (10) E.

An in-service course for peace officers. Covers arrest, evidence, law, firearms, investigation, first aid, identification, jail procedures, juvenile courtroom procedure, race relations and ethics. This course complies with the State Commission on Peace Officers' Standards and Training regulations.

POLICE 83a-83b—SUPERVISORY TECHNIQUES (3-2) E.

An in-service training course for law enforcement supervisors covering the techniques of supervision as prescribed by the State Commission on Peace Officers' Standards and Training.

POLITICAL SCIENCE

POLITICAL SCIENCE 2—COMPARATIVE GOVERNMENT (3) II.

A comparative study of constitutional principles and political problems of the various major governments of the world. An analysis of the evolution and contemporary nature of English, Soviet, German and French political institutions. Course does not satisfy state requirements in Constitution of the United States and the state and local governments of California.

POLITICAL SCIENCE 3—GOVERNMENT OF CALIFORNIA (3) E.

An examination of the legislative, administrative, judicial and electoral systems of California. Emphasis will also be given to city and county government and to the geography and present problems of California. This course satisfies all state requirements in the state and local governments of California but does not satisfy the Constitution of the United States requirement.

POLITICAL SCIENCE 5—FEDERAL, STATE AND LOCAL GOVERNMENT

(3) I, II, E.

An introduction to the principles and problems of national, state, and local government, with particular emphasis on the Constitution of the United States of America.

This course fulfills all state requirements in the Constitution of the United States and the state and local governments of California.

POLITICAL SCIENCE 40—INTERNATIONAL AND INTERCULTURAL RELATIONS (2) E.

Practical problems in American diplomacy as evidenced in the relationship of foreign policy to domestic policy and their interplay with cultures, foreign and domestic. Designed to render an understanding of the factors involved in international relations, the making of foreign policy and its operation and to focus the role of the citizen in the area of international relations.

POLITICAL SCIENCE 41a-41b—CURRENT AFFAIRS (2-2) E.

Subject matter for class discussion taken from the daily newspapers and current magazines.

POLITICAL SCIENCE 49—GOVERNMENT IN THE UNITED STATES (0)

Independent study for in-service teachers only. The California Administrative Code, Title 5, Education, requires that teachers in the public schools, regardless of teaching field, be familiar with the essentials of government in the United States. This requirement is intended to insure that teachers will have a beneficial influence upon students' attitudes toward citizenship. Teachers may fulfill this requirement at College of Sequoias in either of two ways: (1) Political Science 5, (2) Political Science 49, independent study followed by a comprehensive examination without unit credit.

POLITICAL SCIENCE 51—AMERICAN, NATIONAL, STATE AND LOCAL GOVERNMENT (3) I, II.

An introduction to the principles and problems of national, state, and local government, with particular emphasis on the Constitution of the United States of America.

This course fulfills all state requirements in the Constitution of the United States and the state and local governments of California.

This course is designed primarily for those students not interested in transferring to a four-year institution.

POLITICAL SCIENCE 54—PUBLIC OPINION, PROPAGANDA AND POLITICS (3) E.

This course is designed to survey, discuss and analyze the nature and determinants of public opinion, evaluate the role of public opinion in a democracy, and examine the techniques and effects of important types of propaganda. The purpose of the course is to help toward the goal of a citizenry mentally equipped to make democratic government work.

PSYCHOLOGY

PSYCHOLOGY 1α—GENERAL PSYCHOLOGY (3) I, II, E.

A survey of the principles and the processes of adjustment, growth, learning, remembering, perceiving, thinking, sensation, and emotion.

Prerequisite: Second semester status or qualified first-semester freshman.

PSYCHOLOGY 1b—FIELDS OF APPLIED PSYCHOLOGY (3) II.

A survey of the fields of applied psychology: Personnel, engineering, consumer, and clinical. Local field trips may be included in the course.

Prerequisite: Psychology 1α with a grade of "C" or better, or the approval of the instructor.

PSYCHOLOGY 19—FUNDAMENTALS OF LEADERSHIP (1) I.

A course for members of the student executive board and other interested students for the study of the student body, constitution, parliamentary procedures, organization, publicity, and finance, and for the development of leadership qualities.

PSYCHOLOGY 33—PERSONAL AND SOCIAL ADJUSTMENT (3) I, II.

The study of the dynamics of normal personality development and problems of social adjustment. Consideration is given to physiological and social influences.

Prerequisite: Psychology 1α with a grade of "C" or better, or the approval of the instructor.

PSYCHOLOGY 39—CHILD DEVELOPMENT (3) I, II.

A study of the needs of the infant and child in relation to the family, including the preparation for the arrival of the child, prenatal development, infancy and childhood. Emphasis on home, parent and child relations.

Prerequisite: Psychology 1α with a grade of "C" or better.

PSYCHOLOGY 51—PSYCHOLOGY OF PERSONAL ADJUSTMENT (3) I, II.

A course designed to give students an understanding of the development of personality and the factors which are influential: family relationships, social groups, and developmental problems. The purpose is to develop a knowledge of psychology that will be useful in everyday living.

SOCIOLOGY

SOCIOLOGY 1α-1b—INTRODUCTION TO SOCIOLOGY (3-3) I, II, E.

An introductory course covering principal concepts, including culture, social organization, social change, social processes, and tools of sociological investigation; major social problems; including the nature and treatment of juvenile delinquency, crime, prejudice, dependency and family.

Sociology 1α is a prerequisite to Sociology 1b.

SOCIOLOGY 26—MARRIAGE AND FAMILY LIFE (2) I, II.

This course is designed to give the student greater insight into family living. Consideration of such topics as: roles played by various family members; importance of the family for individuals and society; choosing a mate; successful living as husband, wife, parent, child; emotional, spiritual, sexual, and financial adjustment in marriage; the family in time of stress.