

1951-52



GLENDALE COLLEGE CATALOG

*and announcement
of courses*

GLENDALE COLLEGE

Catalog

AND ANNOUNCEMENT OF COURSES

1951-1952

APRIL 1, 1951



GLENDALE 8, CALIFORNIA

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College Year

1951

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
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29	30	31

AUGUST

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5	6	7	8	9	10	11
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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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1952

JANUARY

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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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FIRST SEMESTER

September 1, 5, 8	Pre-registration Examinations, 8 a.m.-12 m.
September 10	Vaqueritos Day (All new students are expected to attend)
September 10-11	Degistration for Former Glendale College Students, Followed by Registration of New Students
September 12	Class Instruction Begins
September 24-25	File Permanent Registration Programs
Oct. 9 & 29	Group Counseling
October 12	Last Day to Drop Class Without Penalty
November 9	Mid-semester Grade Reports
November 22-23	Thanksgiving Vacation
Dec. 19-Jan. 1	Christmas Vacation
January 16	Last Day of Class Instruction
January 17	Final Examinations Begin
January 25	End of Semester

SECOND SEMESTER

December 1	Pre-registration Examinations, 8 a.m.-12 m.
December 6	Pre-registration Examinations, 2 p.m.-6 p.m.
January 5, 19, 24	Pre-registration Examinations, 8 a.m.-12 m.
January 28	Vaqueritos Day (All new students are expected to attend)
January 28-29	Registration of Former Glendale College Students, Followed by Registration of New Students
January 30	Class Instruction Begins
February 12	Lincoln's Birthday—Holiday
February 11-13	File Permanent Registration Programs
February 22	Washington's Birthday—Holiday
Feb. 26 & Apr. 24	Group Counseling
February 29	Last Day to Drop Class Without Penalty
March 28	Mid-semester Grade Reports
April 7-11	Spring Vacation
May 10, 17, 24	Pre-registration Examinations, 8 a.m.-12 m.
May 30	Memorial Day—Holiday
June 11, 12	Pre-registration Examinations, 8 a.m.-12 m.
June 4	Last Day of Class Instruction
June 5	Final Examinations Begin
June 12	Graduation Exercises
June 13	End of Semester

GLENDALE COLLEGE ADMINISTRATION

BOARD OF EDUCATION

A. L. Lawson, *President*

Arthur L. Hudson, D.D.S., *Vice President*

Mrs. Bernard Brennan

Earl R. Morgan

Edward C. Cannon

GLENDALE CITY SCHOOL ADMINISTRATORS

Normal C. Hayhurst - - - - *Superintendent*
 Kenneth M. Montgomery - - *Deputy Superintendent*
 John T. Gate - - - - *Business Manager*

COLLEGE STAFF

Elmer T. Worthy - - - - - *Director*
 Sam A. Tenison - - - - - *Dean of Men*
 Elizabeth A. Rowley - - - - *Dean of Women*
 Carl E. McConnell - - - - - *Registrar*
 Lois H. Flint - - - - *Acting Head Counselor*
 Lois H. Flint, Carl E. McConnell, Elizabeth A. Rowley,
 Sam A. Tenison, Elmer T. Worthy - *Executive Committee*
 Gerald Nathan Allen, Winifred E. Champlin, Abraham F.
 Elliott, Lois H. Flint, Carl E. McConnell, Loyd S. Noble,
 Elizabeth A. Rowley, Thomas S. Ryan, Donald Verne Spagnoli,
 Doris C. Spencer, Sam A. Tenison, Park L.
 Turrill - - - - - *Administration Committee*
 James H. Bedford, Harold B. Cochrane, Lois H. Flint,
 Leroy Travers Herndon, Jr., Anne Rambo, Eugene
 Wolfe - - - - - *Counselors*

FACULTY

- Abel, C. Jeannette - - - - - Art
 Adams, Ercil Wesley - - - - - English
 A.B., M.A., University of Southern California.
- Allen, Gerald Nathan - *Chairman, Division of Languages
 and Literature, English*
 A.B., M.A., Occidental College.
- Bagish, Henry H. - - - - - Social Science
 A.B., University of California Santa Barbara College; M.A.,
 University of California at Los Angeles.
- Bedford, James H. - - - - - *Counselor, Psychology, Drafting*
 A.B., Pg.B., B.M.T., Valparaiso University; M.A., University
 of California; Ph.D., University of Southern California.
- Blevins, Charles E. - - - - - Biological Science
 A.B., M.S., Stanford University.
- Bloomfield, Emily Mary - - - - - Chemistry
 A.B., M.A., University of Southern California.
- Bouey, James G. - - - - - Biological Science
 A.B., University of California at Los Angeles
- Bradbury, Roscoe C. - - - - - Mathematics
 A.B., University of California at Los Angeles; M.A., University
 of Southern California.
- Brady, Arthur Clinton - - - - - English, Speech
 A.B., M.A., Occidental College.
- Brewster, Harold L. - - - - - Radio Production, Speech
 A.B., M.A., Ph.D., University of Southern California.
- Brittan, John S. - - - - - Social Science
 B.A., Montana State University; M.A., University of California
 at Los Angeles.
- Brown, Robert William - - - - - Art
 B.A., San Francisco State College; M.F.A., California College of
 Arts and Crafts.
- Cahoon, Gene - - - - - Aviation Mechanics
 B.A., Los Angeles State College.
- Carlson, Frederick - - - - - Aviation Mechanics

- Champlin, Winifred E. - *Co-Chairman, Division of Health and Physical Education, Physical Education, Health Education*
B.S., University of Washington; M.A., University of Southern California.
- Clark, Channing - - - - - *Aviation*
- Cochrane, Harold B. - - - *Counselor, Chemistry*
A.B., M.A., University of Southern California.
- Davis, Lee Verde - - - - - *Navigation*
- Elliott, Abraham F. - *Co-Chairman, Division of Health and Physical Education, Physical Education*
A.B., Occidental College.
- Fellingham, Warren C. - *Mathematics, Engineering, Trade*
A.B., Occidental College.
- Fischer, Egbert D. - - - - - *Physics*
A.B., Sam Houston State Teachers College; M.A., University of Texas.
- Fisher, Glenn Edward - - - - - *Aviation*
L.L.B., American Extension School of Law.
- Flint, Lois H. - - *Acting Head Counselor, Psychology*
A.B., A.M., Syracuse University.
- Fox, Marguerite V. - - - - - *French, Spanish*
A.B., DePauw University.
- Fritch, C. Lorene - - - - - *Statistician*
A.B., University of California; M.A., University of Southern California.
- Gill, Philip - - - - - *Chemistry, Engineering*
B.S., University of Alaska; M.S., Oregon State College.
- Girton, Ruth Becker - - - - - *Music*
A.B., University of California at Los Angeles.
- Haden, Harley J. - - - - - *Physics*
A.B., Occidental College; M.A., University of Southern California.
- Hansen, Elmer D. - - - - - *Trade Drafting*
B.S., University of Washington.
- Hardison, Richard C. - - - *Psychology, Philosophy*
A.B., M.A., Occidental College.
- Harrington, Charles H. - - - - - *Mathematics*
A.B., M.A., Stanford University.

- Herndon, Leroy Travers, Jr. - - - *Counselor, Spanish*
A.B., M.A., Stanford University.
- Holland, Leland W. - - - *Mathematics, Physics*
A.B., M.A., University of Southern California.
- Johns, Ralph Leslie - - - *Philosophy, Psychology*
A.B., M.A., University of California; B.D., Pacific School of Religion.
- Jonas, James L. - - - - - *Social Science*
A.B., M.A., University of Southern California.
- Kennedy, Gwen M. - - - - - *Commerce*
B.S., M.S., University of Southern California.
- Kerr, William C. D. - - - *English, French, Spanish*
A.B., University of North Carolina.
- King, Grace H. - - - - - *English*
A.B., Columbia University; M.A., Ph.D., New York University.
- Kitch, Loran W. - - - - - *Biological Science*
B.S., University of Idaho; M.S., University of Southern California.
- Klotz, Dorothy E. - - - *Geography, Mathematics*
B.S., A.B., Ohio State University; M.S., University of Southern California.
- Kosturick, Michael - - - - - *Theater Arts*
A.B., M.S., University of Southern California.
- Krause, Arthur - - - - - *Commerce*
B.Ed., State Teachers College, Whitewater, Wisconsin; M.A., University of Iowa.
- Kreider, John S. - - - - - *Social Science*
A.B., Dickinson College; M.A., University of Southern California.
- Levine, Ellis M. - - - - - *German, Social Science*
A.B., University of California; M.A., Harvard University.
- Lillie, Ella Lausman - - - - - *Mathematics*
A.B., Western Michigan College of Education; A.M., University of Michigan.
- Mane, Florenze K. - - - - - *Commerce*
A.B., University of California; M.A., Columbia University.
- Manetta, Laura - - - - - *-French, Spanish*
A.B., University of California; M.A., University of Southern California.

- McConnell, Carl E. - - - - - Registrar
A.B., University of Kansas City; M.Ed., University of Southern California.
- McCreary, Jack E. - - - - - *Home Arts, Speech*
A.B., M.A., University of Southern California.
- *McLane, Lucille - - - - - *Physical Education*
B.S., University of California at Los Angeles.
- McLaughlin, J. Hobert - - - - - *Music*
B.S., M.S., North Texas State College.
- **McMahon, Fred R., Jr. - - - - - *Theater Practice, Speech*
B.F.A., State University of Iowa.
- Meserve, Clement D. - *Geology, Paleontology, Mineralogy*
B.A., Yale College; M.A., University of California.
- Miller, Emil Anthony - *Sheetmetal, Welding, Art Metal,
and Jewelry Craft*
- Miller, Sherman C. - - - - - *Commerce*
A.B., Carleton College; M.B.A., Harvard Graduate School of Business Administration.
- Moffat, Edward S. - - - - - *Social Science*
A.B., M.A., Stanford University.
- Morris, Robert - - - - - *Machine Shop*
- Neal, Elizabeth - - - - - *Public Health Nurse*
B.S., University of California at Los Angeles.
- Nichols, Addressen - - - - - *Home Arts*
B.S., Oregon State College.
- Nichols, Charles Leslie - - *Engineering, Mathematics*
B.S., Franklin College; M.S., University of Nebraska.
- Noble, Loyd S. - - *Chairman, Division of Business
Training, Commerce, Law*
A.B., Simpson College; L.L.B., University of Southern California.
- Pattison, Irene Maddocks - - - - - *Music*
B.M., College of the Pacific; M.M., University of Southern California.
- Peters, Donald Wilson - - - - - *Social Science*
A.B., Occidental College; M.A., Claremont Colleges; Ph.D., University of Southern California.
- Place, Derrill - - - - - *English, Journalism*
A.B., Wabash College; M.A., Ohio State University.

- Rambo, Anne - - - *Counselor, Aviation, Social Science*
A.B., Walla Walla College; M.A., Occidental College.
- Ramont, Esther - - - - - *Librarian*
A.B., University of Southern California.
- Reinhard, Carl William - - - *Physical Education*
A.B., University of California.
- Rempel, Helen H. - - - - - *Art*
B.E., University of California at Los Angeles.
- Rowley, Elizabeth A. - *Dean of Women, Social Science*
A.B., Western College for Women; M.S., University of Southern California.
- Ryan, Thomas S. - *Chairman, Division of Aviation and Trades, Aviation, Engineering Drawing*
B.S., M.S., University of Southern California.
- Schroeder, Neva B. - - - - - *English*
A.B., University of Minnesota.
- Shively, John, Jr. - - - - - *Machine Shop*
A.B., Whittier College.
- Smith, Albert Irving - - - - *Architecture, Art*
Ed.B., University of California of Los Angeles; M.A., Claremont Graduate School.
- Smith, James W. - - - - *Physical Education*
B.S., University of Southern California.
- Spagnoli, Donald Verne - *Chairman, Division of Social Science, Social Science*
A.B., M.A., University of California.
- Spencer, Doris C. - - *Acting Chairman, Division of Fine Arts, Art, Architecture*
B.S., M.S., University of California.
- Sperry, George S. - - - - *Physical Education*
A.B., College of Pacific.
- Spivey, Kenneth Vincent - - - - *Commerce*
B.S., A.B., M.S., University of Southern California.
- Steele, Helen C. - - *Health and Physical Education*
B.S., M.S., University of Southern California.
- Taylor, Halsey P. - - - - - *English*
A.B., Colorado College.

- Teed, Mabel - - - - - *Commerce*
A.B., University of California; M.A., University of Southern California.
- Tenison, Sam Alfred - - *Dean of Men, Social Science*
B.S., James Millikin University.
- Thomsen, Robert E. - - - - *Photography, Art*
A.B., California College of Arts and Crafts; M.A., Stanford University.
- Titchenal, David L. - - *Health and Physical Education*
A.B., San Jose State College; M.A., University of Southern California.
- Turrill, Park L. - - *Chairman, Division of Science and Mathematics, Chemistry*
A.B., B.S., University of Redlands; M.S., University of California.
- Ueland, Emma M. - - - - - *Home Arts*
B.S., Oregon State College; M.A., Columbia University.
- Wiebe, Herman H. - - - - - *German*
A.B., University of Nebraska; M.A., University of Wisconsin.
- Wilson, Clarence O. - - *Mill Cabinet and Carpentry*
- Wolfe, Engene - - *Counselor, Health and Physical Education*
A.B., M.A., University of Southern California.
- Woodrow, Ella - - - - - *Home Arts*
B.A., Los Angeles State College.
- Worthy, Elmer T. - - - - - *Director*
A.B., J.D., Stanford University; M.A., University of Southern California.
- Young, Milton B. - - - - - *Choral Music*
B.Mus., University of Redlands; M.Mus., University of Southern California
- Youngquist, Joel C., Jr. - - *Commerce, Social Science*
A.B., Occidental College; M.B.A., Harvard Graduate School of Business Administration.

*Absent on Leave

**Absent on Military Leave

SCHEDULE OF CLASSES

College courses require much study, library research, and reading in addition to regular class work. To allow ample time for study and preparation, the typical student program will not contain a full schedule of classes through the college day, nor will the program be the same every day of the college week. It is the responsibility of each student to use his free periods for study. See "Unit of Work," page 28.

Classes. In order to provide for the large number of students which it is anticipated will desire to enroll at Glendale College, classes will be scheduled Monday through Friday during most of the day. It is considered desirable to enroll for a schedule of courses which is as compact as possible.

Time Schedule of Day Classes

Monday through Friday

Period	Time	Period	Time
1	8:07 - 9:00 a.m.	8	3:07 - 4:00 p.m.
2	9:07 - 10:00 a.m.	9	4:07 - 5:00 p.m.
3	10:07 - 11:00 a.m.	10	5:07 - 6:00 p.m.
4	11:07 - 12:00 noon	11	6:07 - 7:00 p.m.
5	12:07 - 1:00 p.m.	12	7:07 - 8:00 p.m.
6	1:07 - 2:00 p.m.	13	8:07 - 9:00 p.m.
7	2:07 - 3:00 p.m.	14	9:07 - 10:00 p.m.

Note: A limited number of classes in Aviation Mechanics and Machine Shop will be offered in the evening.

Time Schedule of Summer Classes

The schedule for summer classes will be announced at the beginning of the session.

GENERAL INFORMATION

Location

The Glendale College, established in March, 1927, is a unit of the Glendale Unified School District. It is located at 1500 North Verdugo Road, Glendale 8, California. Glendale, a city of approximately one hundred thousand persons, is adjacent to Los Angeles in Southern California.

Buildings and Facilities

Three reinforced concrete buildings—the Auditorium Building, the Administration Building, and the Science Building—overlooking Verdugo Road and the city-owned Verdugo Park are located at the front of the Glendale College campus. These are equipped with classrooms, laboratories, a library, a theater-auditorium, and offices. Toward the rear of the campus on higher levels are a Trades Building housing machine and sheetmetal shops, carpentry and mill and cabinet shop, an aviation testing unit, two locker and shower buildings for men and women, the Student Union, the Student Bookstore, and a student government building. In addition six surplus military housing units are equipped as aviation shops, classrooms, a supplementary locker and shower room for men, and an auxiliary cafeteria.

The campus, consisting of 52 acres with a frontage of 1,928 feet, provides ample space for all college activities and for the erection of additional buildings. It extends into the valleys and up the ridges of the San Rafael Mountains which rise behind the college. The area is wooded with live oak trees and chaparral, and the space around the buildings is attractively landscaped. From the heights at the rear of the campus imposing vistas of Southland communities and high mountains are available.

Recreational facilities are numerous: outdoor basketball, badminton, and handball courts; a football field with bleachers; a quarter-mile track; concrete-surfaced tennis courts; an archery range; a turf hockey field; the Student Union patio; and a concrete-surfaced Corral with its outdoor fireplace, suitable for dances and informal gatherings.

During the regular session the college library is open Monday through Friday from 7:30 a.m. to 5 p.m. It contains approximately 17,000 books and bound magazines and receives 205

periodicals and daily and weekly newspapers, in addition to government documents and indexes to current publications.

Calle Vaquero, entering the campus from the south, gives access to the student parking lots located above the athletic fields; at the north end of the campus, entering from Verdugo Road is a parking lot. Parking space is also available across Verdugo Road in the city-owned parking lot.

Purpose

The Glendale College is organized to offer educational services designed to meet the needs of all mature citizens of the community. The following general types of educational services are provided:

Semi-professional Training for an Occupation

Two-year and one-year programs of study are offered in a number of occupational fields. Students completing such programs should be qualified to enter occupational life without additional college instruction. (See page 34 for detailed descriptions of the various curricula.)

Lower Division University Curricula

Courses are offered which are equivalent to those offered in the freshman and sophomore years at the University of California and other colleges and universities in the United States. (See page). A student with a satisfactory high school and junior college record will receive full credit for all work done in Glendale College provided he has met the specific requirements of the college or university to which he transfers. The University of California usually will not accept more than 70 units of junior college work for transfer.

Opportunities to Make Up High School Deficiencies

A student unable to enter a four-year university or college, because of his high school record, may by diligent work make up his deficiencies and enter upon a program leading to advanced standing at a four-year institution.

Such a student will often need more than four semesters in junior college to complete the Lower Division requirements. The program should be planned with the written advice of the registrar of the institution to which the student expects to transfer.

Opportunities for Cultural Study

Students wishing to pursue a program of general cultural education will find a broad schedule at Glendale College. Older as well as young citizens of the community will find offerings in English, art, music, philosophy, psychology, history, foreign language, mathematics, physical and biological science, political science and economics.

War Veteran Training

Instruction is offered to qualify war veterans for high school graduation, for entering industry, and for advanced study in a four-year college or university.

Veteran Education

War veterans are invited to avail themselves of the guidance service and the educational training offered by Glendale College. Returned service men are helped and encouraged to secure the training necessary to realize their vocational aims. In order that this may be achieved, Glendale College cooperates with the Veterans Administration, with the California Department of Veterans' Affairs, and with the California State Bureau of Vocational Rehabilitation.

Credit for Military Training

Glendale College will recognize and grant credit to veterans for educational training completed in the armed forces provided such credit is not a duplication of work taken previously. College work completed through the United States Armed Forces Institute will be accepted. In order to receive credit for military training, veterans must petition for such credit and present authentic military service and training records including copy of discharge papers.

Applicants desiring credit for military training, who have had no previous college work or whose previous college record is below "C" average will be required to prove their capability by earning fifteen units with "C" average at Glendale College before credit for military service is granted. Credit earned for military training will count toward satisfying requirements for the degree of Associate in Arts. However, under no circumstances will Glendale College graduate any veteran who has not completed at least one full semester of work as a resident student.





STUDENT GOVERNMENT HEADQUARTERS BACK TO CLASSES



Completion of High School Graduation

Veterans may take work at Glendale College to complete the requirements for high school graduation. Interested veterans should contact the registrar for detailed information.

Summer Term

Glendale College has operated summer terms for the past nine years. The tenth summer term will open June 18 and close July 27, 1951. Students enrolling for work may complete four to six units of college credit during the six weeks. Courses will be offered in all fields in which there is sufficient demand. Summer term circulars may be obtained by calling CItrus 2-6861.

Office of Administration

All problems of registration, attendance, academic status, and graduation should be referred to the Main Office, Ad 100.

Housing

Glendale College has no housing facilities for its students, most of whom reside with members of their immediate family or relatives. A limited number of accommodations in the community available to students are listed in the Deans' Office. It is possible for some students to work for room and/or board. Any person interested in such should call in person at the office of the Dean at the beginning of the semester.

Student Health

The Glendale Unified School District maintains an examining physician who has office hours at the College one day a week and a registered nurse who has daily office hours at the College. For the use of both students and faculty, first aid materials are dispensed by the school nurse.

Loans and Aid Funds

A student loan fund was started in 1930 by a contribution of \$150.00 from the Faculty Club. An equal contribution from the student body made a total of \$300.00. From this beginning a loan fund for worthy and needy students has been maintained and increased by contributions from the American Legion Auxiliary, the Patrons Club and the Alumni Association. Applications for loans may be made either to the Dean of Men or Dean of Women.

A student grant fund established by the Glendale Branch of the American Association of University Women is available for worthy and needy women students. Applicants may secure information on this fund from the Dean of Women.

Scholarships

A number of scholarships are available each semester for both men and women students. Selection is made by the faculty Award Committee on the basis of academic record, student need, integrity of character and service to the College. Each is contingent upon the student's intention of remaining in Glendale College the following semester.

Patrons Club Scholarship, for \$50.00, available each semester for both men and women.

The Glendale Federal Savings and Loan Association Scholarships, two for \$50.00 each, open to men and women students majoring in the commercial field, available each semester.

The Stanley Swain Art Scholarship, open to men and women Art majors, each semester for a substantial amount of art materials.

Pre-Dental Scholarship, for \$150.00, awarded by the Women's Auxiliary—4th District Dental Society, during the Spring semester of each year to a student who has fully qualified for admission to a dental school of his choice.

Hudson-Phillips Scholarships, each for \$50.00 available the Fall and Spring semester for pre-dental students.

Gail Hamill Scholarship for \$50.00 available the Fall semester, open to either men or women.

Pan Hellenic Scholarship for \$100.00 awarded in the Spring to a Sophomore woman who plans to enter an upper division program in the coming Fall semester. This is primarily a scholastic scholarship though activity participation and personal adjustment are given much consideration.

Student Employment

A student employment office is located in Ad 110, where students may confer with the Placement Officer regarding part-time and full-time work.

Through the Work Experience Program conducted by the Placement Office, students are offered the opportunity to defray

part or all of their college expenses, gain valuable work experience, and at the same time graduate with their regular classes. A maximum of 20 units of college credit is allowed for work experience, with three to five units given each semester. Enrollment in Psychology 22 (Vocational Adjustment) is required of all students enrolled in the Work Experience Program.

Students who are regularly employed for a minimum of 15 hours per week, or who have a definite promise of such employment, may make application to their counselors for assignment to this program. Students who wish to participate but who have no jobs, should file applications for employment in the Placement Office.

Student Union and Bookstore

The Student Union consists of the bookstore and two fountain-cafeteria units. They are operated by the Associated Student Body under the supervision of separate managers. Books and supplies are sold at moderate prices. Service to the student body rather than profit is the main objective.

Student Organizations and Activities

The Associated Students of Glendale College is the official student body organization. Numerous opportunities are provided students to participate in activities of the Associated Student Body, whose government headquarters is in Brooke Hall. An extensive social program, an athletic program, a bookstore, a cafeteria, and an accounting office for A.S.B. funds are sponsored by the Associated Students. In addition, the Associated Women Students and the Associated Men Students have programs of activities.

Activity Period

No classes are scheduled Tuesday and Thursday at 11 a.m. This hour is reserved for club meetings, student committee meetings, and student assemblies.

Clubs

Opportunity to render service to Glendale College or to pursue a special interest is provided through participation in the club program offered on the campus. For list of clubs see page 21.

All students are urged to affiliate with at least one organization. Application for membership may be made through the Deans' Office. Club policies are coordinated by the Inter-Club Council.

Athletic Program

A complete program of athletics is sponsored by Glendale College, as a member of the Western States Conference. Competitive athletics is carried out in all sports for men. The Women's Athletic Association and the Physical Education Department for Women sponsor a complete program of sports and athletic activities for women.

Honor Societies

The following honor societies function at Glendale College; Alpha Gamma Sigma—State Scholarship Society; Beta Phi Gamma—National Inter-Collegiate Journalism Fraternity; Delta Psi Omega—National Honorary Dramatic Society; Phi Theta Kappa—National Scholarship Society; Epsilon Omega—Women's Honorary Service Club; Sigma Xi Sigma—Honorary Physics and Chemistry Club.

Organization Roster

		Membership	Open to all **	Subject to qualifications
A.S.B. GOVERNMENT				
A.S.B. Legislature	Governing Body	Both		x
A.S.B. Executive Board	Governing Body	Both		x
A.M.S. Board	Governing Body	Men		x
A.W.S. Board	Governing Body	Women		x
Inter-Club Council	Governing Body	Both		x
ATHLETIC ORGANIZATIONS				
Lettermen's	Men's Sports	Men		x
Women's Recreation Ass'n.	Women's Sports	Women		x
INTEREST ORGANIZATIONS				
Alpha Chi	Art	Both		x
Archi	Architecture	Both		x
Chi Phi	Bible Study	Both		x
D Pancho	Journalism	Both		x
Kappa Pi Sigma	World Friendship	Both		x
Ladies	Social Poise	Women		x
Niads	Cultural	Women		x
Philmousia	Music	Both		x
Pre-Nursing	Pre-Nursing	Both		x
Sigma Pi Delta	Home Economics Majors	Women		x
Ski	Skiing	Both		x
Squires	Pep Group	Both		x
Tau Alpha Delta	Science	Both		x
Tau Omega Phi	Education Majors	Both		x
United Nations	Foreign Affairs	Both		x
Vaq-Aeros	Private Pilots	Both		x
PROFESSIONAL ORGANIZATIONS				
Beta Phi Gamma	Journalism	Both		x
Delta Psi Omega	Drama	Both		x
Sigma Xi Sigma	Physics/Chemistry	Both		x
SCHOLARSHIP AND HONORARY ORGANIZATIONS				
Alpha Gamma Sigma	Scholarship	Both		x
Epsilon Omega	Honorary	Women		x
*Phi Theta Kappa	Scholarship	Both		x
SERVICE ORGANIZATIONS				
Red Cross—College Unit	Service	Both		x
Salients Auxiliary	Service	Women		x
Student Christian Ass'n.	Welfare	Both		x
* Upon graduation				

** Application may be made through Deans' Office

ADMISSION AND REGISTRATION

Entrance Requirements

Eligibility

Any high school graduate or any graduate of an equivalent secondary school may be admitted to Glendale College. Other individuals over 18 years of age may be admitted upon the recommendation of the Director of the College.

Application

All applications for admission should be sent to the Registrar, Glendale College, Glendale 8, California, from whom registration blanks and information may be obtained.

Transcripts

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

Failure to file such transcripts may delay or prevent admission. Transcripts should be sent directly from the high school or college to Glendale College.

Pre-registration Examinations

Each applicant must take Pre-registration Examinations, which are given in May, June, September, December, and January (see page for dates and hours). Failure to take these examinations will delay or prevent registration; prospective students are advised to take them at the earliest date possible.

The results of these examinations are used to help the student and his counselor in registration.

Residence Requirements

The Glendale Junior College District is composed of Glendale, Montrose, La Crescenta, and Highway Highlands.

At the time of registration each student is required to file a "Statement of Residence."

Legal regulations concerning residence of junior college students make necessary the following rules:

(a) A student living in Glendale Junior College District may attend Glendale College provided his legal residence is in the district. The legal residence of a student under 21 is with his father or legal guardian. The legal residence of the father or guardian is in the school district in which he is qualified to vote. The father is the legal guardian except when deceased, or made exempt by action of a court of law.

(b) *A student whose residence is outside the Glendale Junior College District and not in another Junior College District may attend Glendale College.*

(c) *A student whose residence is outside the Glendale Junior College District and in another Junior College District may attend Glendale College if he presents a transfer permit from the district of residence. Applicants from a district which maintains a Junior College cannot be admitted unless a transfer permit has been granted.*

A student who is attending Glendale College on a transfer permit should carry a full program so that he will graduate in two years, because transfer permits are usually not renewed after a two-year period.

(d) *An out-of-state student may be admitted to Glendale College provided his application is accepted by the Administration.*

(e) Out-of-district students who enroll under Public Law 346 or Public Law 16 do not need permits.

Registration

Registration, the formal arranging in a program of the classes listed in the study list, takes place on a temporary basis the first two days of the semester with Permanent Registration forms showing the permanent program being filed the first two days of the third week of school. All students must see their counselor and make out a study list prior to filing a Temporary Program. Only a limited number of classes are open to late entrants.

Costs

No tuition fee is charged at Glendale College. A student, however, will be held responsible for any loss or breakage of college equipment or furniture.

The legislative branch of the Associated Student Body has agreed upon dues of \$10.00 per semester. At registration time students will also have the expense of purchasing textbooks and other incidentals. Students should bring about \$25.00 at time of registration to cover these expenses. According to the constitution of the Associated Student Body no refund on dues is payable after the fifth week of the college year.

The revenue derived from the Associated Student Body dues supports a variety of necessary college activities, including assemblies, athletics, dramatics, music, publications, radio production, and the social activities of the college.

Vacqueritos Day

New students are expected to attend Glendale College on Vacqueritos Day before registration each semester. (See page 5 for date). Sponsored by the student government and administration together, a series of group meetings scheduled from 9 a.m. to 12:30 p.m. will explain student life, campus activities, student government, and guidance procedures vital to new students. Refreshments will be served during the morning by the Women's Recreational Association.

Counseling Services

Glendale College maintains the following student services: (1) ability and interest testing, (2) educational counseling, (3) vocational guidance, and (4) employment placement (part-time and full-time).

Counselors

Prior to registration, each student is assigned a counselor to advise him in choosing a program that will suit his needs. Counseling examinations supplement the high school record in analyzing the student's interests and abilities. Aided by the information derived from these tests, and by the high school record, the counselor will assist the student in selecting a program and will thereafter be available for conferences on courses, activities, and problems that may arise in connection with college life.

Counseling Examinations

All entering students are required to take pre-registration examinations. A Psychological Examination gives information on the student's general aptitude for various types of college work. An English Placement Test is given to determine the student's ability to read, write, and comprehend English. On the basis of results on this examination the counselor recommends the English course to be taken. A Vocational Interest Inventory helps the student analyze his work preferences so that he can plan a suitable college program.

In addition to the tests included in the Pre-Registration Examinations, the counseling staff has available a variety of test materials for students. Among these are other tests of ability and vocational interest, as well as tests of various aptitudes, special skills, and personality.

Eligibility for Courses

A student may enroll in any course offered at Glendale College provided he has fulfilled the stated prerequisites for the course. A student may occasionally have had outstanding experience in a given area which he may feel will satisfy the stated prerequisite for a course. Where it is desired to substitute such experience for the regular prerequisite, the student must have a Petition to the Executive Committee approved to make such substitution. Once such a petition has been approved by the Executive Committee the student may not later receive credit for a course for which he substituted the outside experience.

Many courses have no stated prerequisite, but the student should realize that it may be assumed that he has had previous successful experience with related subjects, the ability to read with speed and understanding, and the ability to express himself in clear and concise English. These factors are considered by counselors when assisting a student with his program.

A student with a poor scholastic record in any subject field should not expect to carry advanced work in that field.

Transfers to the University of California

The University of California admits students to freshman standing under the University of California Admissions Plan by

certificate*, by reason of superior scholarship, and by examination (see University of California Catalog).

A student who has qualified for admission to the University of California as a freshman may enter Glendale College and transfer to the University of California at the end of any term provided he has maintained a "C" average in all work acceptable for advanced standing.

A student who has *not* qualified for admission to the University of California as a freshman may enter Glendale College and transfer to the University of California after he has met the requirements for removal of high school deficiencies**, as stated by the University of California:

By college courses of appropriate content and amount completed with satisfactory scholarship in junior colleges, or state colleges of California, or in other approved colleges. The applicant must include in his program courses acceptable for removing his subject shortages and present either:

- (a) Sixty units with at least an average of grade "C" in college transfer courses, or
- (b) A minimum of 15 units of college transfer courses with a grade point average of 1.5.

*Completion of the following subjects in grades 9 to 12. (Of the subjects completed in grades 10 to 12, inclusive, only those with grades of "A", "B", or "C" may be counted, and the student must have a "B" average in the subjects counted.)

(a) History (U. S. history or U. S. history and civics)	1 unit
(b) English	3 units
(c) Mathematics (elementary algebra and plane geometry)	2 units
(d) Science (a third or fourth year subject with laboratory)	1 unit
(e) Foreign Language (in one language)	2 units
(f) Additional	1 unit
Chemistry or Physics or	
Advanced Mathematics or	
Foreign Language (if in a language other than that	
offered under (e), 2 units will be required)	

**A subject deficiency under the University of California Admissions Plan results from a student's not having completed, with a grade of at least "C", all the high school subjects listed under (a) to (f).

A grade deficiency results from a student's failure to make an "A" or "B" in subjects listed under (a) to (f). However, grades of "A" can be used to offset grades of "C"; therefore, if a student has a "B" average in subjects listed under (a) to (f), he will not have any grade deficiencies.

Ordinarily, it is recommended that graduates of California high schools who are not eligible for admission to the University attend one of the California junior colleges and complete there the lower division requirements of the college in which they wish to register.

The University of California is for a limited period making an exception to the above in a special plan of admission as follows:

As an alternative to making up high school subject deficiencies, the Board of Admissions and Relations with Schools has approved an experimental plan of admission, limited to the years 1949-1953 inclusive. Under this plan an applicant may be admitted on the basis of a record showing completion of at least 60 units of "C" average work, in which must be included all of the subjects required for junior standing in the college or school of the University for which application is made.

Transfers to Other Colleges and Universities

A student may take a program at Glendale College which will qualify him for junior standing in most of the four-year colleges and universities of the United States. The requirements of colleges and universities vary so greatly that it is not possible to prescribe a program of work which will apply to all of them. Two procedures are recommended:

1. A student should consult the catalog of the college or university to which he intends to transfer. He should choose his courses at Glendale College in accordance with the lower division requirements of the college or university of his choice as outlined in its catalog.
2. In addition, it is advisable for him to submit his high school transcript plus his proposed junior college program to the registrar of the chosen college or university for tentative approval.

Catalogs of schools, colleges, and universities are on file in the College Library, the Counseling Office, and the Registrar's Office for reference purposes. Students are urged to obtain catalogs directly from the college or university by writing the Registrar of the institution in which the individual is interested.

REGULATIONS

GRADES AND SCHOLARSHIP

Unit of Work

College work is measured in terms of the "unit." One hour of class work a week for one semester is considered one "unit of work."* In *Courses and Their Content*, pages 65 to 123 in this catalog, the number of units of credit offered for each course may be found. Each unit of class work requires approximately two hours of preparation. A student carrying a normal college program of 16 units would be expected to attend class a minimum of 16 hours and study in preparation for class approximately 32 hours; his college week would then consist of 48 hours of work.

Unit Limitations

The normal program for a student at Glendale College is 16 units, with a minimum of 12 units, for regular students. A student who is working part-time or has a health problem should make a proportionate adjustment in his college load.

First semester students may not register for more than 16 units plus physical education. The University of California will not accept more than 16½ units (including physical education, a semester unless the student has achieved a "B" average in a program the preceding semester.

Scholarship Standards

Glendale College interprets a "C" average as a satisfactory scholarship standard—which means that the student should receive grade points equal to the number of units *attempted*. By units *attempted* is meant all units completed (for which credit towards graduation is allowed) plus all units in which a "F" has been received, even if the units have been repeated.

Students who fail to maintain satisfactory scholarship may be placed on academic probation and may be subject to dismissal.

1. *Academic Probation.* A student will be placed on probation if his total accumulated record is six grade points or more below a "C" average. A student on probation will be limited in his study program by his counselor. In no case will such a student be allowed to carry more than 15 units excluding physical education.

*In some laboratory and physical education courses more hours may be required for one unit of credit.

2. *Dismissal*. A student will be subject to dismissal:
- a. If after one semester on probation his accumulated record shows that he is 15 grade points or more below a "C" average.
 - b. If he has been on probation for two consecutive semesters or terms unless he achieved a "C" average or better during his last semester of attendance.
3. A student whose ratio of grade points to units *attempted* is low or a student showing that he is not reasonably profiting from his college work may be placed on academic probation or may be excluded from college.

If good cause exists for making an exception to the above rules, the student should petition the Executive Committee.

Grades

The standing of students in each course will be determined by class work and examinations. Grades will be reported in the following manner.

A—Excellent	D—Barely passing
B—Good, above average, very satisfactory	E—Incomplete or condition
C—Average	F—Failure
	W—Withdrawn

An incomplete grade (E) will be given only when an unforeseen emergency prevents a student from completing his work in a course. The incomplete grade must be removed within six weeks after the beginning of the semester subsequent to the one in which the "E" was made. If not removed, the incomplete grade automatically becomes a grade of "F." Before an instructor may give a student an incomplete grade rather than an "F" at the end of a semester, he must make arrangements with the office. Except in the case of an "E" or clerical error, instructors will not be permitted to change a grade once it has been accepted by the office.

The grade of "F" in any course denotes failure, and the course must be repeated if the student desires credit. An "F" cannot be removed by examination.

A student having earned a grade of "B" or "C" in a course will not receive any additional grade points on repeating the course and receiving a higher grade. A student who has received a grade of "D" may repeat the course and receive the grade points earned upon repetition. A student who has received a "F" may repeat the course and receive the credit and grade points earned upon repetition.

Grade Points

To determine student standing and fitness for graduation, grades are evaluated numerically as follows:

Each unit completed with the grade of "A"—3 grade points.

Each unit completed with the grade of "B"—2 grade points.

Each unit completed with the grade of "C"—1 grade point.

Each unit completed with the grade of "D"—0 grade points.

Each unit completed with the grade of "F"—0 grade points.

For example, a three unit course completed with a grade of "A" allows 9 grade points, with a grade of "B" allows 6 grade points, with a grade of "C" allows 3 grade points, with a grade of "D" or "F" allows no grade points.

General Probation

Students who persist in the violation of the established rules and policies of Glendale College may be placed on General Probation by the Dean of Men, Dean of Women, or Director.

Attendance and Punctuality

A college student is expected to attend all sessions of the classes in which he is enrolled. Irregular attendance may result in exclusion from classes. Although there is no penalty for absence when it is due to the illness of a student, the serious illness or death of a member of a student's family, or a student's being authorized to represent the college, all work missed must be satisfactorily made up.

Punctuality in meeting classes is also imperative. Students arriving late at a class will be marked absent unless they personally establish their attendance with the instructor at the close of class.

Temporary Leave of Absence

Students who find it necessary to be absent from college for one or more classes should complete a Petition To Make Up Work in advance of leaving. Suitable forms may be obtained from the student's counselor, the faculty sponsor of the activity causing the absence, or the Deans.

Withdrawal From College

A student who wishes to withdraw from college before the end of a semester may obtain from his counselor a Petition for Honorable Dismissal. The student must fill out the Petition for Honorable Dismissal, obtain on it the signatures required, file it in the Dean's Office, Ad 104, and have no outstanding obligations to the college to be certain of leaving his record clear. Withdrawal is considered to have been made only when the above has been completed, not on the last day of class attendance.

Students completing a withdrawal before the end of the fifth week of school will receive a "W" in each course. Students completing withdrawal after the fifth week of school will receive a "W" in the course if they are passing at the time of withdrawal or a "F" if not passing at the time of withdrawal.

Formal withdrawal from college will facilitate future admission to other educational institutions or re-admission to Glendale College.

Withdrawal From Class

Once a student has registered for a class he is not considered to have withdrawn from it unless he files a Petition for Change of Program dropping the class or withdraws from college as outlined above. A Petition for Change of Program form is obtainable from the counselor. Failure to attend class or to list class on Permanent Registration forms does not constitute a regular withdrawal and may result in a "F" in the course.

A student may withdraw from a class any time during the first five weeks without penalty if the withdrawal is properly made. The total unit load, however, should never go below 12 units unless the student is working or has a health problem.

Those withdrawing from class after the first five weeks will receive a "W" in the course if passing at the time and a "F" if not passing.

Physical Education

Each student is required to enroll, to attend regularly, and to maintain a satisfactory record in physical education for each semester in Glendale College, except that a person may be exempted upon presentation of evidence that he (1) has attained the age of 25 years, or (2) is registered for 7 units or less, or (3) has a medical excuse on file (in this case the Physical Education Department may develop a program of modified activity), or (4) is a junior college graduate.

Examinations

Final examinations are required in all courses except physical education. No student shall be excused from taking a final examination. No examination exceeds two hours. Before the end of each semester a schedule of final examinations will be announced.

Re-examinations are not given except as a means of removing an incomplete "E." See page 29.

Petitions to the Executive Committee

A student feeling that there are circumstances warranting special consideration for adjustment in his case may petition the Executive Committee.

Clearance of Obligations

All obligations to the college must be met before honorable dismissal will be granted.

Transcripts to Other Colleges

Upon the request of a student, a transcript of the student's record at Glendale College will be sent to any college or university.

GRADUATION REQUIREMENTS

Glendale College, in accordance with the laws of the State of California, the regulations of the State Board of Education, and the regulations of the Board of Education of the Glendale Unified School District, grants the degree Associate in Arts to persons who satisfactorily complete a two-year junior college curriculum of 60 units, including the following:

1. Two units in the Constitution of the United States, including the study of American Institutions and Ideals. Courses satisfying this requirement are History 17-18* (6 units); Political Science 1 (3 units); Political Science 5 (2 units); Social Science 31-32* (8 units).
2. Two units in American History. Courses which may be completed in Glendale College to satisfy this requirement include History 3-4 (6 units); History 5 (2 units); History 17-18* (6 units); Social Science 31-32* (8 units); Economics 11.
3. Six units in oral and written English. Courses which may be completed in Glendale College to satisfy this requirement include English 1, 2, 8, 10, 13, 14, 16, 18, 41, 42, 43; Commerce 15, 16; and Speech 3.
4. A program of health and physical education as follows:
 - a. Two units in hygiene.
 - b. Completion of physical education requirements. (See page 32.)
 - c. First Aid
5. One of the following conditions:
 - a. Last 15 units in residence with a "C" average in all work attempted at Glendale College and in all college work attempted.
 - b. A minimum of 54 units in residence with a "C" average in all work attempted at Glendale College and in all college work attempted.
 - c. 60 or more units in residence with a "C" average in all work attempted in Glendale College.

*This course satisfies both requirements 1 and 2.

SUGGESTED CURRICULA

Outlined on the following pages are a number of curricula showing how courses may be combined in a balanced program in order to prepare for a specific objective. Some of the curricula are for students preparing for employment in industry or a trade, some are for those planning to transfer to some other institution and some are for those maintaining or establishing a home or business.

These curricula given are suggestions; the student should consult his counselor regarding his life plan and the courses necessary and desirable to carry out that plan.

Students majoring in one of the two-year semi-professional curricula and planning to graduate with an Associate in Arts degree must comply with the graduation requirements on page 33 of this catalog.

Students may graduate from Glendale College and subsequently transfer to another college or university and pursue their studies without loss of time. In some instances it will be advantageous to make the transfer to another institution after completing only one year of junior college training. Those planning to transfer with junior standing have four requirements to fulfill: (1) removal of any existing entrance deficiencies in grades or subject matter required by senior college; (2) satisfaction of lower division major field requirements prescribed by senior college; (3) fulfillment of general lower division requirements prescribed by senior college for all students; (4) completion of Glendale College requirements for graduation. Those planning to make up the transfer prior to graduation need to complete only the first requirement listed above and to have made satisfactory progress on the other three.

For the most part, the suggested programs of courses are based upon the requirements and recommendations of the University of California. Students planning to transfer to other institutions of higher learning should study carefully the lower division requirements of those institutions, some of which are printed in the Appendix, page 124.

In each curriculum, health and physical education (activity) is listed with $\frac{1}{2}$ unit credit. Advanced activity classes (team sports) carry one unit credit per semester.

Accounting

The accounting curriculum provides training for employment as bookkeepers and accountants in the accounting departments of business firms and as junior accountants in the public accounting field. Students who contemplate meeting the additional requirements for the C.P.A. certificate should consult with their accounting instructor, or write to the State Board of Accountancy for a copy of the California Accounting Act.

Students who have a definite interest in this type of office work, and who are willing to make the intensive study necessary in a two-year preparation, may obtain the basic training to qualify for positions of responsibility in the accounting departments of business enterprises. This curriculum also provides a broad general education in the field of business administration.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 5A-5B	4	4
Commerce 15-16 or English 1-2	3	3	Commerce 27-28	3	3
Commerce 21-22 or Economics 13-14	4	4	Commerce 42-41	2	2
Commerce 29-45	2	2	Law 21	2	
Law 17-18	3	3	Economics 1-2	3	3
H. & P.E. (Activity)	½	½	History 5		
			Political Science 5	2	2
			H. & P. E. 1		2
			H. & P. E. (Activity)	½	½
Total	15½	15½	Total	16½	16½

Advertising Art

Training in art may lead to many types of employment. Positions available and opportunities for advancement will largely be determined by the background of training and the ability of the applicant. The curriculum listed below is designed to prepare the student for employment in the commercial field. Those majoring in the field of advertising art will find it advantageous to know how to type. Students transferring to professional art schools for advanced training will receive credit for courses taken at Glendale College.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Art 1-2	3	3	Art 23-24	2	2
Art 3-4	2	2	Art 7-8	2	2
Art 5-6	2	2	Art 11-12	2	2
Art 34	1		Art 37-38	2	2
Art 35-36	2	2	Architecture 3	2	
Biology 1		3	Architecture 5		3
English	3	3	H. & P. E. 1	2	
Electives*	3	1	History 5		
H. & P. E. (Activity)	½	½	Political Science 5	2	2
			Electives	2	3
			H. & P. E. (Activity)	½	½
Total	16½	16½	Total	16½	16½

*Students who have not had mechanical drawing in high school should take Architecture 1.
Recommended: Art 25

Agriculture (University of California, College of Agriculture, Berkeley and Davis)

Students wishing to graduate from Glendale College with an Associate in Arts degree must in addition to the suggested programs listed below, complete six units of English and two units of Health and Physical Education 1. Students planning to major in agriculture may specialize in any one of several curricula such as animal science, plant science, forestry, and soil science. Training in these fields is highly specialized and scientific and if completed leads to a Bachelor of Science degree.

ANIMAL SCIENCE

(Animal Husbandry, Poultry Husbandry, Pre-Veterinarian, Dairy Industry)

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Physics 5-6	4	4
Zoology 1-2	4	4	Economics 1-2	3	3
Mathematics 1-2 (if needed)	3	3	Chemistry 5-6	3	3
History 5 -			Botany 1		5
Political Science 5	2	2	Bacteriology 11	4	--
H. & P. E. 1	2	--	Geology 1	3	
Biology 11	--	3	Electives		2
H. & P. E. (activity)	1/2	1/2	H. & P. E. (activity)	1/2	1/2
Total	16 1/2	17 1/2	Total	17 1/2	17 1/2

FORESTRY

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	English 1-2 or Speech 3-4	3	3
Engineering 11-12	3	3	Physics 5-6	4	4
Mathematics 3-4	3	3	Chemistry 5-6	3	3
Geology 1 - Biology 1	3	3	Botany 1 - Biology 11	5	3
History 5 -			Economics 1-2	3	3
Political Science 5	2	2	H. & P. E. (activity)	1/2	1/2
H. & P. E. (activity)	1/2	1/2	Total	18 1/2	16 1/2
Total	16 1/2	16 1/2			

PLANT SCIENCE

(Agronomy, Fruit Products, Irrigation, Genetics, Plant Pathology, Pomology, Sub-Tropical Horticulture at U.C.L.A., Truck Crops, Viticulture)

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Chemistry 3	3	--
Bacteriology 11	--	4	Economics 1	3	--
Biology 1-11	3	3	Chemistry 5-6	3	3
Botany 1	5	--	Physics 5-6	4	4
Mathematics 1-2 (if needed)	3	3	Political Science 5	--	2
History 5	--	2	English 1-2 or Speech 3-4	3	3
H. & P. E. (activity)	1/2	1/2	Electives	--	4
Total	16 1/2	17 1/2	H. & P. E. (activity)	1/2	1/2
			Total	16 1/2	16 1/2

SOIL SCIENCE

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Chemistry 5-6	3	3
Botany 1 - Biology 11	5	3	Economics 1-2	3	3
English 1-2	3	3	Geology 1 -		
Mathematics 3-4	3	3	Bacteriology 11	3	4
History 5		2	Physics 5-6	4	4
H. & P. E. (activity)	½	½	Chemistry 3	3	
			Political Science 5		2
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	16½

Airlines Industry

Two types of training are offered in this field:

1. *Airline Administration* for those who wish to enter airline work as Clerks, Agents, Station and Traffic Management, etc.
2. *Airline Hostess* for those who wish to become air hostesses. The airlines all differ in specific requirements, but the following are typical: age 21-26 years; weight 100-125 pounds; height 62-66 inches; vision 20-40 or better; two years of college. Applicants must be neat in appearance, interested in people and their travel problems, acceptable personally and physically. Because of age limitations it is suggested that individuals interested start as clerks in one of the airlines and progress into air hostess work.

AIRLINES ADMINISTRATION

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English	3	3	Social Science 31-32	4	4
Aviation 10	3	--	Psychology 1-2	3	3
Aviation 1	3	--	Geography 5		3
Commerce 21-22 or 5A-5B	4	4	Aviation 49	3	--
Commerce 1A-1B	3	3	Speech 1 or 3	2-3	--
Commerce 29	--	2	H. & P. E. 1		2
Electives	--	3	Aviation 11-12	2	2
H. & P. E. (activity)	½	½	Electives		2
			H. & P. E. (activity)	½	½
Total	16½	15½	Total	14½-15½	16½

AIRLINES HOSTESS

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English	3	3	Social Science 31-32	4	4
Aviation 10	3	--	Psychology 7-1	3	3
Aviation 1	3	--	Aviation 49	3	--
Geography 5	--	3	H. & P. E. 1	2	--
Commerce 1A	--	3	Commerce 21-22 or 5A-5B	4	4
Physiology 11	4	--	Speech 1 or 3	--	2-3
Home Arts 41	--	3	Electives*		2
Electives*	2	3	H. & P. E. (activity)	½	½
H. & P. E. (activity)	½	½			
Total	15½	15½	Total	16½	15½-16½

*Recommended electives: Commerce 16 and Law 31

Airplane Pilot Training

Four types of training are offered in this field:

1. *Training* for those who wish to complete two years of college to be eligible to enter Air Force or Navy pilot training.
2. *Private Pilot* training for those who wish to use flying in their occupations, those who wish to enter some field of aviation other than as commercial pilots, and those who wish to fly for personal pleasure. It is recommended that those training as aviation mechanics take this course.
3. *Commercial Pilot* training for those who wish to make flying their occupation.
4. *Advanced Pilot* training for those who wish to train for the Flight Instructor, Instrument, and Multi-Engine Ratings.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Aviation 1-2A	3	3	Aviation 2B-3	3	3
Aviation 10-11	3	2	Aviation 13-4	2	3
Aviation 12	—	2	Aviation 14-15	2	3
English	3	3	Aviation 16	—	3
H. & P. E. 1	2	—	Aviation 49-7	3	2
History 5	—	—	Commerce 47-48	2	2
Political Science 5	2	2	Electives	3	—
Mathematics 1 or	—	—	H. & P. E. (activity)	½	½
Trade 43	3	—			
Electives	—	3			
H. & P. E. (activity)	½	½			
Total	16½	15½	Total	15½	16½

Apparel Design

A curriculum designed to train persons for employment in the clothing industry as pattern designers, drafters, layout workers, markers, sample makers, inspectors, drapers, fitters and cutters. Ample opportunity exists for students majoring in this field to obtain through a wise selection of electives a broad and liberal education.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Home Arts 17-18	6	6	Home Arts 19-20	6	6
*Art 13-14	3	3	Home Arts 15-16	2	2
English	3	3	Home Arts 37	2	—
Social Science 31-32	4	4	Home Arts 33	—	3
H. & P. E. (activity)	½	½	Home Arts 23-24	2	2
			H. & P. E. 1	2	—
			Electives	2	3
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	16½

*Art 43 (or Art 3) and Art 21 may be substituted.
Recommended: Art 22

Architectural Drafting

This two-year curriculum prepares a student to enter employment as an architectural draftsman in the building construction field. The program follows the employment requirements of Southern California firms in the building trades. Fundamentals of architectural design and current drafting practice are stressed.

First Year			Second Year		
	Units			Units	
English 1-Speech 3	3	3	Architecture 23	2	2
History 5	—	2	Art 11-12	2	2
Architecture 3-5	2	3	Political Science 5	2	—
Art 3 or Art 43, Art 4	2-3	2	Architecture 11-12	5	5
Architecture 9-10	4	4	Architecture 17	—	3
Art 5-6	2	2	Trade 45-46	3	2
Architecture 1* or			Engineering 11	3	—
Electives	3-2	—	H. & P. E. 1	—	2
H. & P. E. (activity)	½	½	H. & P. E. (activity)	½	½
Total	15½-16½	16½	Total	15½	16½

Recommended: Commerce IA and Law 17.

*Required if the student has not had at least 1 year of architectural drafting in high school.

Art Major

For the student who is interested in art as a career, this curriculum will prepare for advanced work in an Art school, or for further intensive work in the field of his choice. If the student plans to transfer to a university he should consult the catalog of that university for requirements.

First Year			Second Year		
	Units			Units	
Art 3-4	2	2	Biology 1	3	—
Art 5-6	2	2	Art 1-2	3	3
Art 7-8	2	2	Art 11-12	2	2
Art 34	1	—	Art 19-29	2	2
Art 35-36	2	2	Art 23-24	2	2
English 13-14	2	2	English 8	—	2
H. & P. E. 1	—	2	History 5	—	—
Art 31	3	—	Political Science 5	2	2
Electives	2	4	Electives	2	3
H. & P. E. (activity)	½	½	H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	16½

Architecture (University of California, Berkeley; University of Southern California; University of Oregon)

Students who wish to enter a 5 year School of Architecture and become candidates for the degree, should transfer at the end of the freshman year. A representative exhibit of work in courses in Art and Architecture must be presented to the University for evaluation to determine the amount of advanced standing given each individual.

Note: the high school course should include two years of a foreign language; mechanical drawing; algebra; geometry; trigonometry; physics; chemistry. Deficiencies may be made up before transfer.

University of California, Berkeley: The student must satisfy the lower division requirements of the College of Letters and Science and include the following subjects:

Required: Mathematics 3-4-5; Physics 5-6; Architecture 3-5; Art 3-11.

Recommended: Art 6, Art 12.

University of Southern California, School of Architecture: The student must satisfy the lower division requirements, including the following subjects:

Required: Mathematics 2 and 1 (or 8); Physics 5-6; Art 3-4; Art 5-6; Architecture 23; Architecture 3-5.

Electives recommended: Art 11-12; Architecture 17-18; Architecture 9-10 (A or B grade must be earned to receive credit).

Note: A recommended grade is required in Art and Architecture.

University of Oregon: Students must satisfy the lower division requirements, before admission as professional majors, including both liberal arts and pre-professional requirements.

Recommended: Art 3-4, 5-6; Architecture 3, 5, 9-10, 23; Mathematics 1-2-3, 7; Physics 5-6 or 1-2-3-4.

Aviation Mechanic Trades

Two training programs are offered in this field. One meets the requirements for the Civil Aeronautics Administration "E" license (Airplane Engine) and the other meets the requirements for the Civil Aeronautics Administration "A" license (Airplane). Both "A" and "E" licenses may be obtained in the course of two years.

AIRCRAFT ENGINE OVERHAUL AND MAINTENANCE (“E” license)

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Aviation 21AB-22AB	8	8	Aviation 23AB	8	
Trade 43	3	--	Aviation 1	--	3
H. & P. E. 1	2	--	Aviation 10	--	3
Engineering 1	--	3	Trade 5	--	3
English 1-2	3	3	Aviation 49	3	--
Elective	--	2	Commerce 47-48	2	2
H. & P. E. (activity)	½	½	Social Science 31-32	4	4
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	17½	15½





ART STUDY FIELD INSTRUCTION



AIRPLANE MAINTENANCE AND REPAIR ("A" license)

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Aviation 25AB-26AB	8	8	Aviation 27AB	8	
Trade 43-44	3	3	Aviation 1	—	3
Engineering 1	3	—	Aviation 10	—	3
H. & P. E. 1	—	2	Social Science 31-32	4	4
English	3	3	Aviation 49	3	—
H. & P. E. (activity)	½	½	Commerce 45	—	2
			Electives	—	3
			H. & P. E. (activity)	½	½
Total	17½	16½	Total	15½	15½

Bacteriology (College of Letters and Science, University of California, Berkeley)

Students will find it advantageous to transfer to the University after spending only one year in Glendale College.

Students planning to major in this field should follow the lower division requirements of Letters and Science. In addition the following subjects should be included:

Chemistry 1-2; Zoology 1; Botany 1; Physics 5-6.

Recommended courses: elementary courses in French or German.

Banking

The many types of financial institutions such as banks, building and loan associations, mortgage companies, loan brokers, investment banks, and stock exchanges offer a variety of job opportunities. The suggested curriculum provides a wide general education in business administration important in these fields, as well as basic training in the specialty.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 5A-5B	4	4
Commerce 15-16 or			Commerce 42-41	2	2
English 1-2	3	3	Commerce 47-48	2	2
Commerce 21-22 or			Law 21-H. & P. E. 1	2	2
Economics 13-14	4	4	Law 25 -		
Law 17-18	3	3	Political Science 5	2	2
Commerce 29	2	—	Economics 1-2	3	3
History 5	—	2	H. & P. E. (activity)	½	½
H. & P. E. (activity)	½	½			
Total	15½	15½	Total	15½	15½

Botany (College of Letters and Science—University of California, Berkeley)

Students planning to major in this field should follow the lower division requirements of Letters and Science. In addition the following subjects should be included:

Botany 1 and Chemistry 1

Recommended: German and one other foreign language, and elementary courses in other biological sciences.

Business Administration (University of California, Berkeley)

To be admitted to the School of Business Administration, students must have at least junior standing in one of the colleges of the University of California, or if entering from another institution, must have completed an equivalent program of work. This means that the first two years of work may follow the pattern prescribed by the College of Letters and Science (see page 129), the College of Agriculture, or the College of Engineering.

Students attending Glendale College and planning at the end of two years to enter the School of Business Administration (Berkeley) should complete the following required lower division courses: Economics 1-2, Economics 13-14, Mathematics 9, Law 17, and Economics 11.

Business Administration (University of California at Los Angeles)

The curriculum of the School of Business Administration is designed to give students who choose to work toward the Bachelor of Science degree a well-balanced introduction to professional careers in business. Certain fundamental courses are included in the first two years of work which should give the student the proper background for more technical offerings when the upper division is reached.

Students attending Glendale College and planning at the end of two years to enter the School of Business Administration (U.C.L.A.) should complete the lower division requirements of the College of Letters and Science (see page 129) and be certain to include the following subjects: Economics 1-2, 13-14, Law 17, Mathematics 9 or Mathematics 4, and Geography 5-6.

Business Administration (University of Southern California)

The University of Southern California offers curricula in accounting, advertising, business education, commercial aviation, finance, foreign trade, general business, industrial management, industrial relations, retailing, secretarial administration, office management, trade and transportation, and general business preparatory to law, each leading toward the degree of Bachelor of Science.

The following curriculum prepares for general business:

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English 1-2	3	3	Economics 1-2	3	3
History 5 -			Psychology 1 -		
Political Science 5	2	2	Speech 3	3	3
Geography 1-2	3	3	Mathematics 1-9	3	3
Economics 13-14	4	4	History 7-8	3	3
H. & P. E. 1		2	Law 17-18	3	3
Elective	3		H. & P. E. (activity)	½	½
H. & P. E. (activity)	½	½			
Total	15½	14½	Total	15½	15½

Business (General)

The general business curriculum is intended for students who are undecided concerning their field of business. All such students are advised

to change to one of the specialized curricula as early as possible. Such a change can usually be made with the counselor's help during the first year without loss of time or credits. Nevertheless, if no such change is made, the students following this curriculum have a broad general education in the field of business administration.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Law 17-18	3	3
Commerce 15-16 or English 1-2	3	3	Economics 1-2	3	3
Commerce 21-22 or Economics 13-14	4	4	Commerce 39-41	3	2
Commerce 29	2	—	Commerce 31-43	3	3
Commerce 34-33	2	2	Commerce 47-48	2	2
Commerce 42-H.&P.E. 1	2	2	History 5 -		
H. & P. E. (activity)	½	½	Political Science 5	2	2
			H. & P. E. (activity)	½	½
Total	16½	14½	Total	16½	15½

Business (Small)

Small business operation constitutes a large segment of all business activity since small stores, shops, and manufacturing establishments are the most numerous types of business enterprises in nearly every community. Because the owner or manager of a small business makes a success or failure largely by reason of his own ability, experience, and training, each factor in the operation of that business is exceedingly vital to him.

Since the types of activities of small business are quite varied, it is recommended that the student engage in a part-time job where he can acquire technical information in his particular field of interest. This curriculum provides general technical information for the small business operator and includes a broad general education in business administration.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 47-48	2	2
Commerce 15-16 or English 1-2	3	3	Economics 1-2	3	3
Commerce 21-22 or Economics 13-14	4	4	Commerce 39-43	3	3
Commerce 29-31	2	3	Commerce 34-33	2	2
Law 17-18	3	3	Commerce 42-32	2	3
H. & P. E. (activity)	½	½	History 5 -		
			Political Science 5	2	2
			H. & P. E. 1	2	—
			H. & P. E. (activity)	½	½
Total	15½	16½	Total	16½	15½

Carpenter Trade

This course of study offers a basic training for a carpenter entering the building trades. The training is fundamental, giving a student the all-around ability and speed necessary to fill positions successfully. The continued demand for trained men in the building trades is such as to insure an interesting and well paying occupation that has exceptional opportunity for advancement. The completion of this curriculum satisfies two years' apprenticeship requirements.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 21-22	8	8	Trade 23-24	8	8
English or Commerce 15-16	3	3	Social Science 31-32	4	4
H. & P. E. 1	...	2	Commerce 47-48	2	2
Engineering 1	3	...	Electives	2	2
Elective	2	...	H. & P. E. (activity)	½	½
Trade 43	...	3			
H. & P. E. (activity)	½	½			
Total	16½	16½	Total	16½	16½

Chemistry (College of Chemistry—University of California)

Admission to upper division chemistry is contingent upon a grade point standing of at least 1.5 in courses basic to the major.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Chemistry 3-4	3	3
Mathematics 3-4	3	3	Chemistry 5-6	3	3
Physics 1-2	3	3	German 1-2	4	4
English 1-2	3	3	Mathematics 5-6	3	3
H. & P. E. 1* - History 5	2	2	Physics 3-4	3	3
H. & P. E. (activity)	½	½	Political Science 5	...	2
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	18½

*Students who wish junior standing only, in the College of Chemistry, and who do not desire the A.A. degree, may delete H. & P. E. 1 and place History 5 and Political Science 5 in the first year.

Clerical Work

The clerical curriculum is outlined for students who wish to prepare for general office work in commercial, industrial, and financial companies, or in government service, as typists, office machine operators, filing clerks, mailing clerks, switchboard operators, or receptionists. The subject matter is designed to cover various phases of civil service examinations for general clerical positions.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 1C-1D	2	2
Commerce 5A-5B	4	4	Commerce 21-22	4	4
Commerce 15-16	3	3	Law 31-H. & P. E. 1	3	2
Commerce 29-45	2	2	Electives	7	8
Social Science 31-32	4	4	H. & P. E. (activity)	½	½
H. & P. E. (activity)	½	½			
Total	16½	16½	Total	16½	16½

Cosmetology

The purpose of this course which is open to both men and women is to present a balanced curriculum that will cover the requirements set up by the State Board of Cosmetology for examination for license, and to enable high school graduates to work toward a college degree. A student

who successfully passes the examinations will enter the field of Cosmetology with the knowledge and technical skill, artistic ability, and other essential qualities necessary for a cosmetician. There are several branches in the field of Cosmetology which may be entered after receiving a license. Each requires specialized training, prerequisite experience, or college graduation. Some of these specialties are electrology, make-up artist, hair styling, and teaching. The following program is recommended:

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>		
Home Arts 45-46	6	6	Home Arts 47-48	10	10	
Commerce 15-16	3	3	History 5 -			
Home Arts 33	3	-	Political Science 5	2	2	
Art 3 or 43	2-3		Theater Arts 9		1	
Art 21		2	Commerce 29	2		
Physiology 11		4	H. & P. E. 1	2		
H. & P. E. (activity)	½	½	Elective	--	3	
			H. & P. E. (activity)	½	½	
	<hr/>			<hr/>		
	Total	14½-15½	15½	Total	16½	16½

Recommended electives: Commerce 32, 33, 34, 45, 48, Chemistry 41, and/or Home Arts 29.

Dental Hygienist (University of California College of Dentistry, Dental Hygiene Curriculum, San Francisco)

Dental Hygiene is a profession limited to women. It bears a relationship to dentistry similar to that which nursing bears to the medical profession. Students completing the following two-year Pre-Dental Hygienist program and the two-year curriculum in the University will be granted a Bachelor of Science degree in dental hygiene. Graduates in this field after passing the state examination are licensed to practice and are eligible to work as hygienists in private dental offices or for state or county health departments. Students planning to enter this field should complete the regular pattern of courses in high school required for admission to the University of California. Applicants for admission to the Dental Hygiene Curriculum (San Francisco) should complete the requirements of the College of Letters and Science for the Associate in Arts degree as well as certain specified additional courses. The following two-year program completed at Glendale College will satisfy requirement.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>		
English 1-2	3	3	Chemistry 5-6	3	3	
Chemistry 1-2	5	5	History 17-18	3	3	
Foreign Language	4	4	Physics 5-6 or			
Year course	3	3	Zoology 1-2	4	4	
H. & P. E. (activity)	½	½	Year course			
			or Electives*	3	3	
			H. & P. E. 1 - Elective	2	2	
			H. & P. E. (activity)	½	½	
	<hr/>			<hr/>		
	Total	15½	15½	Total	15½	15½

Note: Students planning on transferring to U.S.C. College of Dentistry should investigate their program, as it varies considerably from the above.

*Psychology 1-2 recommended.

Dentistry (College of Letters and Science—Pre-Dental Curriculum—University of California)

Those wishing to enter the College of Dentistry must have completed all the requirements for the Associate of Arts degree in the College of Letters and Science and also specific pre-dental requirements.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Chemistry 5-6	3	3
English 1-2 or Speech 3-4	3	3	Physics 5-6	4	4
Foreign Language	4	4	History 17-18	3	3
Zoology 1-2	4	4	H. & P. E. 1 - Electives 2	2	2
H. & P. E. (activity)	½	½	Mathematics, Foreign Language, or year course	3-4	3-4
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	15½-16½	16½-17½

Note: Students planning on transferring to the University of Southern California College of Dentistry should consult their catalog for variations from the above.

Draftsman (Junior Engineer)

This course of study provides basic training for the drafting trade. It covers the fundamentals of all types of drafting. The work is so organized that the student learns the manipulative skills, layout procedures, and drafting techniques required of the professional draftsman or junior engineer. A basic course in lofting, mechanics, and strength of materials is integrated within the framework of the two years of preparation.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 31-32	6	6	Trade 33-34	6	6
Trade 43-44 or Math. 1, 3, 4, 8	3	3	Trade 15	3	
Trade 45-46	3	2	Trade 17-5	3	3
Engineering 3		2	History 5 -		
English or Commerce 15-16	3	3	Political Science 5	2	2
H. & P. E. (activity)	½	½	H. & P. E. 1		2
			Commerce 47-48 or 33	2	2
			H. & P. E. (activity)	½	½
Total	15½	16½	Total	16½	15½

Drama and Radio Production

A curriculum designed to train students in the field of public speaking, drama, oral interpretation, and radio broadcasting. Those satisfactorily completing the suggested program should be qualified for employment in radio, theater, and motion pictures.

<i>First Year</i>		<i>Units</i>		<i>Second Year</i>		<i>Units</i>	
English 1-2	3	3	Speech 31-32	2	2		
French	4	4	French*	4	4		
Theater Practice 1	2	--	H. & P. E. 1	2	--		
Theater Practice 3-4	2	2	Social Science 31-32	4	4		
Theater Practice 21	--	2	Theater Practice 5-6	2	3		
Theater Practice 31-32	3	3	English 8		2		
Speech 1-2	2	2	English: 10	2	--		
H. & P. E. (activity)	½	½	H. & P. E. (activity)	½	½		
Total	16½	16½	Total	16½	15½		

*If two years of foreign language were taken in high school, it is recommended that the following electives be substituted for the language in the sophomore year: Psychology 1-2, Art 1-2, Music 3-4, Home Arts 31.

Economics (College of Letters and Science)

Economics majors should follow the curriculum pattern outlined under lower division requirements. Students should complete Economics 1-2, 11, and 13. The completion of Economics 14 is recommended.

Electrical Technician

A two-year semi-professional engineering curriculum designed to train people for employment in the fields of electronics, public utilities, communication, aircraft, television, radio and related industries. A high school student in preparing for this training should complete algebra, geometry, trigonometry and physics or chemistry. Mechanical drawing also is desirable.

<i>First Year</i>		<i>Units</i>		<i>Second Year</i>		<i>Units</i>	
English	3	3	Commerce 47-48	2	2		
Physics 5-6	4	4	Trade 46	2	--		
Physics 29-30	4	4	Physics 31-32	4	4		
Trade 43-44	3	3	Social Science 31-32	4	4		
Electives	2	2	H. & P. E. 1	--	2		
H. & P. E. (activity)	½	½	Physics 47-48	1	1		
			Electives*	3	3		
			H. & P. E. (activity)	½	½		
Total	16½	16½	Total	16½	16½		

*Physics 35 and 36 should be taken as electives.

Engineering

Engineering students should have completed the following courses in high school: mathematics, 4 units including trigonometry and solid geometry; physics, 1 unit; chemistry, 1 unit; and mechanical drawing, 1 unit. Without this preparation it will be difficult to obtain an engineering degree in four years as 140 semester hours' credit are required by many of the universities.

Because considerable variation exists in requirements for the different universities, the student must consult the catalog of the university of his choice and meet with his counselor.

Recommended courses: Chemistry 1-2, Engineering 2, 3, 8, 10, 11, Mathematics 3, 4, 5, 6, 7, 10, Physics 1, 2, 3, and 4.

English (College of Letters and Science)

English majors should follow the curriculum pattern outlined under lower division requirements. Students must complete English 1-2 and English 5-6. It is advantageous for students in lower division of college to continue study of one modern foreign language. It is also recommended that a course in philosophy be taken.

Foreign Language (College of Letters and Science)

Students majoring in a foreign language should follow the program of studies outlined under lower division requirements. The courses that are required or recommended for each particular language are as follows:

FRENCH:

Required: French 1, 2, 3, 4. Unless student receives grade of "A" or "B" in French 4 it will be necessary to complete French 25 at the University of California prior to being admitted to upper division work.

Recommended: History 1-2, Philosophy 1-2, English 1-2, Latin in high school.

GERMAN:

Required: German 1, 2, 3, 4.

Recommended: History 1-2.

SPANISH:

Required: Spanish 1, 2, 3, 4. Unless student receives grade of "A" or "B" in Spanish 4 it will be necessary to complete Spanish 25A-25B at the University of California prior to being admitted to upper division work.

Students may not major in Spanish unless a "C" average is maintained in all lower division Spanish courses. Two years of Latin in high school are required of majors in this field. This requirement may be completed by taking Latin 1, 2 at the University of California before commencing senior year.

General Curriculum (College of Letters and Science— University of California, Berkeley)

In the General Curriculum a student distributes his studies through two or three departments rather than emphasizing one major department. The student must complete the lower division requirements for Letters and Science. In addition a General Curriculum student must complete the basic lower division courses required by each of the departments in which he wishes to distribute his studies during his junior and senior

years. Consult the Catalog of the University of California and check "Preparation for the Major" listed under each department considered for distribution of study.

Geography (College of Letters and Science— University of California)

Students majoring in this field should follow the lower division requirements of Letters and Science. In addition, the following required and recommended courses should be completed:

Required: Geography 1, 2.

Geography 4, Map Reading and Map Interpretation, would have to be completed at the University of California during junior year.

Recommended: Geology 1.

Geology (College of Letters and Science— University of California)

Students may specialize in geology in the petroleum engineering branch of the College of Engineering or in the College of Letters and Science. Those taking petroleum engineering should follow the curricula for engineering above. Those electing geophysics should consult the University of California Catalogue. Those wishing to major in geology in the College of Letters and Science should fulfill the lower division requirements on page 124, taking into consideration the following requirements and recommendations:

Required: Chemistry 1-2, Geology 1-2, Mathematics 3-4, Physics 5-6, and Engineering 11-12.

Recommended: Mineralogy 1, Mathematics 5, 6.

History (College of Letters and Science)

History majors should follow the curriculum pattern outlined under lower division requirements, taking into consideration the following requirements and recommendations:

At U.C. (Berkeley):

Required: History 1-2, and 3-4 or 17-18, and Economics 1 or Geography 1. All history majors should acquire a reading knowledge of at least one foreign language.

Recommended: Other social science courses.

At U.C.L.A.:

Required: History 1-2, and 3-4 or 17-18.

Recommended:

Political Science 1-2, Economics 1-2, Geography 1-2, and Philosophy 1-2. A reading knowledge of at least one foreign language is usually essential.

Note: History majors planning to transfer to U.S.C. should enroll for History 7-8.

Home Arts

Training in home management, creative design in the home, skills useful in the home, and problems of courtship and marriage. The one-year program is intensive. The two-year program offers opportunities for electives of personal interest, as well as basic training in home making.

<i>One-year Course</i>			
<i>First Semester</i>	<i>Units</i>	<i>First Semester</i>	<i>Units</i>
Home Arts 11	3	Home Arts 12	3
Home Arts 21	3	Home Arts 22	3
Home Arts 31	3	Home Arts 35	3
Art 43	3	Commerce 45	2
Home Arts 29	2	Home Arts 39	3
H. & P. E. 1	2	Home Arts 33	2
H. & P. E. (activity)	½	H. & P. E. (activity)	½
Total	16½	Total	16½
<i>Two-year Course</i>			
<i>First Year</i>	<i>Units</i>	<i>Second Year</i>	<i>Units</i>
Home Arts 39	3	Home Arts 25	2
Home Arts 11-12	3	Home Arts 31-33	3
Home Arts 21-22	3	Home Arts 35	2
Home Arts 3	2	Home Arts 29	2
Art 3-4	2	H. & P. E. 1	2
Home Arts 37	2	Home Arts 15-16	2
Commerce 45	2	History 5	-
English	3	Political Science 5	2
H. & P. E. (activity)	½	Psychology 1	3
	½	Electives*	5
	½	H. & P. E. (activity)	½
Total	16½	Total	16½
	15½		16½

*Recommended electives: Art 21-22, Art 23-24.

Home Economics (College of Applied Arts at U.C.L.A.;

professional departments of the State Colleges)

Students majoring in general home economics or planning to become teachers of home economics, should complete the lower division requirements of the College of Applied Arts or State College, and include the following required subjects:

Teachers, Required: Home Arts 11-12, 21-22, 37; Art 3-4; Chemistry 11-12 and 15, or Chemistry 1-2 and 5; Psychology 1-2; Zoology 1; Economics 1-2.

General, Required: Home Arts 11-12, 21-22, 25, 37; Chemistry 11-12.

Note: Art 3-4 and Economics 1-2 are required for teachers of Clothing and Textiles, and Economics 1-2 and Art 3 for teachers of Foods and Nutrition.

Industrial Arts (University of California, Santa Barbara College and at State Colleges)

Students majoring in industrial or mechanical arts should be primarily planning to secure a teaching credential. This type of training, however, is also designed to qualify for entering industry in a technical capacity. The Los Angeles campus of the University of California no longer offers an industrial arts major program.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English 1-2	3	3	History 17-18	3	3
Music 3 - Speech 3	3	3	Philosophy 1 -		
Electives	3	3	Psychology 1	3	3
Engineering 1-2	3	3	Economics 1 or 13	3-4	-
Physics 5-6	4	4	Art 1-5	3	2
H. & P. E. (activity)	½	½	Electives	3	8
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	15½-16½	16½

Insurance

The several types of organizations to be found in the insurance field offer many specialized types of work, and insurance also offers many opportunities for individual proprietorship.

In the following insurance curriculum, attention is given to the license requirements in California. The state requires that solicitors, agents, and brokers pass examinations before they can operate in their respective fields. An examination is given for life insurance and another examination for all other types of insurance.*

*For details of these examinations, address the California Department of Insurance, 925 Forum Building, Sacramento, California. Also secure a copy of "Insurance Manual" (\$.75 plus tax).

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 33-31	2	3
Commerce 15-16 or			Commerce 39-41	3	2
English 1-2	3	3	Commerce 43 - Law 23	3	2
Commerce 21-22 or			Commerce 47-48	2	2
Economics 13-14	4	4	Economics 1-2	3	3
Law 17-18	3	3	H. & P. E. 1	-	2
Commerce 34-29	2	2	History 5 -		
H. & P. E. (activity)	½	½	Political Science 5	2	2
			H. & P. E. (activity)	½	½
Total	15½	15½	Total	15½	16½

International Relations (College of Letters and Science)

International relations majors should follow the curriculum pattern outlined under lower division requirements. Students must complete Economics 1-2, History 1-2, and Political Science 1-2. Foreign language courses and other social science courses are recommended.

Journalism (College of Letters and Science)

Majors in this field should follow the lower division requirements of Letters and Science with the inclusion of the required and recommended subjects listed below:

Required: English 1-2 or English 1-Speech 3; Economics 1-2. History 1-2 or 3-4 or 17-18; Political Science 1-2; Journalism 1-2, 3-4.

Recommended: Psychology 1-2, Philosophy 1-2, Geography 1-2. Law 17, Sociology 1-2.

Laboratory Assistant

The following curriculum is recommended for on-the-job training (apprenticeship).

<i>First Semester</i>	<i>Units</i>	<i>First Semester</i>	<i>Units</i>
Chemistry 41	5	Bacteriology 11	4
Physiology 11	4	Anatomy 11	4
Physics 5 (Medical) *	4	Physics 6 (Medical) *	4
Chemistry 45	3	Chemistry 46	3
H. & P. E. (activity)	½	H. & P. E. (activity)	½
Total	16½	Total	15½

This course presupposes high school preparation which includes English, plane geometry, trigonometry, chemistry. (Students lacking this background may find it advantageous to spend two years at Glendale College.)

*In special instances Physics 10 may be substituted for Physics 5-6.

Law

Students desiring to study law may pursue their professional training in either of two ways.

- (1) In the School of Jurisprudence of a University (Stanford, University of Southern California or University of California, for example) after having previously obtained a bachelor's degree from a four-year college or university.
- (2) In a College of Law requiring only two college years for admission (Hastings College of Law or University of California, for example).

In either case the requirements for the first two years are essentially the same. Students should earn the junior certificate or Associate in Arts degree of the College of Letters and Science. No particular majors and minors are required for law students, but rather it is recommended that a broad training be obtained. Mathematics, science, and language give needed analytical training. Those planning to specialize in civil and political law will find it profitable to take courses in political science, history, economics, public speaking, psychology, sociology, and literature. Students planning to specialize in criminal law should study chemistry, economics, psychology, philosophy, physiology, and public speaking. Latin is recommended.

Librarian (College of Letters and Science)

Students must have obtained a bachelor's degree from a four-year college or university prior to being admitted to the School of Librarianship. No specific major is recommended for undergraduate training. A good

general education provides the best background. Those planning to enter the School of Librarianship must have completed a year each in two modern foreign languages in college. Ability to type is also recommended. One year of training beyond the bachelor's degree leads to Certificate of Librarianship, and two years of training to the degree of Master of Arts.

Machinist Trade

The following is a two-year curriculum designed to prepare for positions in industry. This training should prove particularly beneficial in such occupations as machinist, tool and die maker, tool designer, production planner, tool planner, draftsman, and other manufacturing engineering positions. Completion of the two years will satisfy pre-apprenticeship requirements.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 1-2	6	6	Trade 3-4	6	6
Trade 43-44	3	3	Trade 45-46	3	2
Commerce 15-16	3	3	Trade 15-17	3	3
Engineering 1-2	3	3	Social Science 31-32	4	4
H. & P. E. (activity)	½	½	H. & P. E. 1		2
			H. & P. E. (activity)	½	½
Total	15½	15½	Total	16½	17½

Mathematics (College of Letters and Science)

Students wishing to major in mathematics should follow the lower division requirements of Letters and Science. The following required and recommended subjects should also be included:

Required: Mathematics 2, 3, 4, 5, 6, 8, and Introduction to Projective Geometry (Mathematics 9 at U.C., Berkeley).

Recommended: Courses in Physics, French and German, and Mathematics 7, 10.

Medical Technician (College of Letters and Science)

The need for trained personnel as medical technicians has led the University of California to establish a curriculum in this field leading to the degree of Bachelor of Science through the School of Public Health in cooperation with the University Medical School. The last year of training must be taken on the San Francisco campus. The following program should be completed at Glendale College:

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Physics 5-6	4	4
English 1-2 or			Chemistry 5-6	3	3
English 1 - Speech	3	3	History 17-18	3	3
Zoology 1 -			Year Course	3	3
Elective	4	4	Year Course	3	3
Foreign Language	4	4			
H. & P. E. (activity)	½	½	H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	16½

Note: Students desiring the A.A. degree must complete Health and Physical Education 1 in addition to the above.

Medicine (College of Letters and Science)

The requirements for admission to the University of California School of Medicine meet and exceed those set up by the Association of American Medical Colleges. Students who are able to do so are urged to spend four years or longer in the academic departments in their premedical work. They are advised to choose elective subjects not related to requirements specific to medicine, in order that they may acquire a sound background in the humanities. The applicant must give evidence of sufficient training in physics, chemistry, biology, and in English literature and composition to enable him to undertake with profit the medical curriculum. He must have a good reading knowledge of a modern foreign language. Consult the School of Medicine Bulletin and the College of Letters and Science Catalog for courses which must be completed in the three years of pre-medical work.

Merchandising

Merchandising includes the specialized fields of marketing, advertising, wholesaling and retailing. In general, students enrolling in Colleges of Commerce or Business Administration may receive the proper background of training to pursue work in this field.

Some students may desire to enter the University of Southern California College of Commerce or the University of California to major in Art or Decorative Arts, or U.C.L.A. and major in Apparel Design or Apparel Merchandising.

APPAREL DESIGN AND APPAREL MERCHANDISING—U.C.L.A.

The College of Applied Arts at U.C.L.A. offers the following two special curricula in the field of merchandising: *Apparel Design*: The curriculum in Apparel Design is planned to provide students with the knowledge, taste, originality, and technical skill essential to the successful designer in either the wholesale or retail trade, or for the stage and screen. *Apparel Merchandising*: The curriculum in Apparel Merchandising is designed for students interested in retailing of clothing, preparing for positions as salespeople, buyers, and department managers with manufacturers, retail stores and custom shops.

Students majoring in Apparel Design or Apparel Merchandising, should complete the lower division requirements of the College of Applied Arts, including the following required subjects:

Apparel Design. Required: Home Arts 11-12, and 37; Economics 1-2.

Apparel Merchandising. Required: Home Arts 11-12, and 37; Art 3-4.

DECORATIVE ART MAJOR—U.C., COLLEGE OF LETTERS AND SCIENCE

Students majoring in Decorative Art should present a representative exhibit of their work to the university for evaluation for advanced standing, and complete the requirements of the lower division of the College of Letters and Science, including the following subjects:

Required: Art 3.

Recommended: Art 4, 5-6; Architecture 1; History 1-2.

Metal Trade

The following is a basic course of study in preparation for positions in industry. This training should prove particularly beneficial in such occupations as sheet metal mechanic, air conditioning construction, operator of power-operated metal manufacturing equipment, jig and fixture designer, production planner, tool planner, draftsman, and other manufacturing engineering positions. The completion of the curriculum satisfies advanced apprenticeship rating.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 11-12	6	6	Trade 13-14	6	6
Trade 43-44	3	3	Trade 45-46	3	2
Engineering 1-3	3	2	H. & P. E. 1	2	—
English	3	3	History 5 -		
Elective		2	Political Science 5	2	2
H. & P. E. (activity)	½	½	Commerce 47-48	2	2
			Elective		3
			H. & P. E. (activity)	½	½
Total	15½	15½	Total	15½	16½

Mill and Cabinet Trade

This course offers a basic training for a cabinet craftsman entering the building trades. The training is fundamental, giving a student the all-around ability and speed necessary to fill positions in building construction, finishing, mill-working, wood turning, store fixture, manufacturing, custom built and general furniture manufacturing, and veneering. The continued demand for trained men in the building trades is such as to insure an interesting and well paying occupation that offers opportunity for advancement. The completion of this curriculum satisfies two years' apprenticeship requirements.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 25-26	8	8	Trade 27-28	8	8
English or			Social Science 31-32	4	4
Commerce 15-16	3	3	Commerce 47-48	2	2
H. & P. E. 1		2	Electives	2	2
Engineering 1-3	3	2	H. & P. E. (activity)	½	½
Elective	2	—			
H. & P. E. (activity)	½	½			
Total	16½	15½	Total	16½	16½

Music

Two-year curricula in special music fields designed to provide training necessary to develop performance and knowledge. Experience in radio and concert fields offered. Students preparing for careers in music may enrich background by elective courses in foreign language, literature, art and social sciences.

VOCAL CURRICULUM

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English	2	2	Music 3-4	3	3
Music 1-2	3	3	Music 11-12 or 15-16	1	1
Music 5-6	5	5	History 5 -		
Music 21-22 and/or			Political Science 5	2	2
Choral Classes	2	2	Music 25-26 or 7-8	2	2
French or German	4	4	Theater Practice 1-2	2	3
H. & P. E. (activity)	½	½	Philosophy 1 - Elective	3	3
			English-H. & P. E. 1	2	2
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	15½	16½

INSTRUMENTAL CURRICULUM

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English	2	2	Music 3-4	3	3
Music 1-2	3	3	Music 33-34 or 43-44	1	1
Music 5-6	5	5	Music 25-26	3	3
Music 31-32 or 41-42	1	1	Music 7-8	2	2
H. & P. E. 1	2		History 5 -		
Electives*	3	5	Political Science 5	2	2
H. & P. E. (activity)	½	½	English	2	
			Electives*	3	5
			H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	16½

*Recommended electives: History 7-8, Art 1-2, Foreign Language, Literature, Science, Music 69, 70, 71 or 73.

PUBLIC SCHOOL MUSIC MAJORS

Students who wish to work towards a state credential in public school music teaching and an A.B. degree at a state college, should complete the lower division requirements of the state college of their choice, including the following music courses:

Music 1-2, 5-6, 3-4, 7-8, and one major and one activity from the following: Music 21-22, 69-70, Music 11-12-13-14, Music 15-16 17-18, Music 31-32-33-34, Music 41-42-43-44.

Music (University of California, Berkeley and Los Angeles, University of Southern California, University of Redlands, Occidental College, Pomona College)

Students majoring in Music should check carefully the requirements in Foreign Language, Natural Science and high school Mathematics, and complete the lower division requirements in the College of Letters and Science (or at U.C.L.A. the College of Applied Arts may be preferred). The following required and recommended subjects should be included:

University of California, Berkeley.

Required: Music 1-2, 3-4, 5-6, 7-8 and some ability to play the piano.*

Recommended: Reading ability in a foreign language. Speech 3-4, Art 1-2, Philosophy 1-2.

University of Southern California.

Required: Music 1-2, 5-6, 7-8, Philosophy 1, Psychology 1.

Recommended: English 5-6 as well as English 1-2, History 7-8 and History 5, Political Science 5.

University of California at Los Angeles. (College of Letters and Science)

Required: Music 1-2, 3-4, 5-6, 7-8, and some ability to play the piano.*

Recommended: Physics 5-6 or 10, Art 1-2 or English 5-6, reading ability in a foreign language.

University of California at Los Angeles. (College of Applied Arts.)

Required: Music 1-2, 3-4, 5-6, 7-8, and some ability to play the piano.*

Recommended: English 1 and Speech 3 may be offered in place of English 1-2, Art 1-2, reading ability in a foreign language.

University of Redlands.

Required: Music 1-2, 3-4, 5-6, 7-8, Psychology 1.

Occidental College.

Required: Music 5-6, elementary knowledge of the piano*, Speech 3, Social Science (13-14 units).

Pomona College.

Required: Music 1-2, 5-6, Philosophy 1-2.

* Recommended: Music 69-70, 71.

Nursing

Students wishing to enter the School of Nursing at the University of California at Berkeley should complete the following program, which also entitles them to receive the degree of Associate in Arts at the end of the fourth semester. Note that the lower division requirements as prescribed by the College of Letters and Science or the College of Applied Arts, U.C.L.A., must be completed. See U.C. School of Nursing Bulletin.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English 1-2	3	3	Psychology 1-2	3	3
*Chemistry 1 or 11	5-4		Year Course	3	3
Bacteriology 11	--	4	History 17-18	3	3
Foreign Language	4	4	Year Course or		
H. & P. E. 1		2	Foreign Language	3	3
Year Course	3	3	Electives	4	4
H. & P. E. (activity)	½	½	H. & P. E. (activity)	½	½
Total	15½-14½	16½	Total	16½	16½

* Chemistry 41 with a grade of "B" or better will satisfy this requirement. Recommended: Home Arts 21, 25, Physiology 11, and Anatomy 11.

All students planning on a nursing career should ascertain the requirements of admission to the Nursing School they wish to enter.

The following one-year curriculum is acceptable for entrance to many schools of nursing.

	Units	
English 1-2	3	3
Chemistry 41		
Bacteriology 11	5	4
Physiology 11		
Anatomy 11	4	4
Home Arts 21 or 41		
Psychology 1	3	3
Elective - H. & P. E. 1	1	2
H. & P. E. (activity)	½	½
	<hr/>	<hr/>
Total	16½	16½

Recommended: Home Arts 25.

Practical Nursing—Students interested in practical nursing, rather than a registered nurse's certificate, should take the one-year nursing course outlined above.

Medical Dental Secretary—Students interested in working in a doctor's office should take the courses listed in the one-year nursing course outlined above plus Chemistry 45-46 and courses in shorthand, typing, bookkeeping and office practice. All these should be combined into a two-year course.

Optometry (University of California)

The School of Optometry offers a curriculum leading to a Bachelor of Science degree, and to a Certificate of Completion in Optometry. Admission is granted to students who have completed the requirements for the degree of Associate in Arts in the College of Letters and Science, and also the prerequisite subjects for the study of optometry. Students should complete mathematics through trigonometry, chemistry, physics, three years of foreign language and mechanical drawing in high school.

The following two-year program, if completed, should satisfy all requirements.

First Year	Units		Second Year	Units	
Chemistry 1-2	5	5	Physics 5-6	4	4
Foreign Language	4	4	Mathematics 3	3	—
English 1 - Speech 3	3	3	Chemistry 5-6	3	3
Elective-Bacteriology 11	4	4	Year course	3	3
H. & P. E. (activity)	½	½	History 17-18	3	3
			H. & P. E. 1	—	2
			Elective	—	2
			H. & P. E. (activity)	½	½
	<hr/>	<hr/>		<hr/>	<hr/>
Total	16½	16½	Total	16½	17½

Osteopathy (College of Osteopathic Physicians and Surgeons, Los Angeles)

The candidate to the College of Osteopathic Physicians and Surgeons at Los Angeles must present evidence of satisfactory completion of three

full years of pre-osteopathic work, fulfilling the requirements as given in the bulletin of the college. The following courses should be included:

Chemistry 1, 2, 3 and 5-6.
 English 1-2, or Speech 3-4.
 Physics 5-6.
 Psychology 1.
 Zoology 1-2.
 French, German or Spanish 1, 2, 3

Pharmacy

Students planning to secure the Bachelor of Science degree in Pharmacy must complete at least four years of the four-year course at the College of Pharmacy (University of California). Students planning on transferring to the University of Southern California should consult their catalog for specific requirements.

Photography

Designed to prepare a student to enter the field as a junior photographer in commercial studio work, a photographic technician in scientific work, or as a news photographer. Students planning to enter commercial studio work would find it advantageous to elect courses in art; if planning to specialize in technical work, they should take courses in chemistry and physics; and, if wishing to become newspaper photographers, they would profit by courses in journalism.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Photography 1-2	2	2	Photography 5-6	5	5
Photography 3-4	3	3	H. & P. E. 1	2	
English	3	3	Electives**	9	11
Social Science 31-32	4	4	H. & P. E. (activity)	½	½
Electives*	4	4			
H. & P. E. (activity)	½	½			
Total	16½	16½	Total	16½	16½

* Chemistry 11-12 are recommended.

** Physics 5-6 and Art 3-4, 31, Photography 7 are recommended.

Physical Education (College of Applied Arts at U.C.L.A.)

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 11	4		Year Course		
H. & P. E. 1		2	(Psychology 1-2)	3	3
Social Science 31-32	4	4	Physiology 11	4	
English 1-2 or			Anatomy 11		4
Speech 3-4	3	3	Year Course		
Music 3-4	3	3	(Minor or elective)	3	3
H. & P. E.			Elective	5	5
(2 activity classes)	1	1	H. & P. E.		
H. & P. E. 10A		1	(2 activity classes)	1	1
Total	15	14	Total	16	16

Physical Therapy

Physical Therapy is the treatment of disease by non-medical means, such as massage, exercise, and the physical, chemical, and other properties of light, heat, water, and certain forms of electricity. The impact of the war has created greater demand for trained physical therapists. Two years of approved college training will qualify students able to pass a required physical examination to enter physical therapy schools approved by the Council on Medical Education of The American Medical Association. Four such schools are located in California: University of California Hospital, San Francisco; Stanford University; Children's Hospital, Los Angeles; College of Medical Evangelists, Los Angeles. Students planning to enter this field should complete the following two-year program at Glendale College.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 11-12	4	4	Physics	4	4
Zoology 1-2	4	4	Physiology 11	..	4
Anatomy 11		4	History 5		
English 1-2	3	3	Political Science 5	2	2
Mathematics 2	3	-	Psychology 1-2	3	3
H. & P. E. 1	2		Electives	7	3
H. & P. E. (activity)	½	½	H. & P. E. (activity)	½	½
Total	16½	16½	Total	16½	16½

Physics (Colleges of Letters and Science)

Students planning to major in physics should follow the lower division requirements of Letters and Science. In addition, the following required and recommended subjects should be included:

Required: Physics 1, 2, 3, 4; Chemistry 1, 2; Mathematics 2, 3, 4, 5, 6.

Recommended: A reading knowledge of German and French and Mathematics 7, 8, and 10.

Police Science

Persons who have attended junior college will be given full credit for such courses as may be applicable to the pattern of course work for a BA or BS degree in Police Science or Penology at institutions of higher learning offering this work.

University of Southern California, School of Public Administration

Required: English 1-2, History 5, Political Science 5, History 7-8, Psychology 1 or Philosophy 1, Foreign language (12 units in a single language) or college mathematics (9 units) or college mathematics and accounting (9 units) or college mathematics (9-12 units).

Note: Each year of high school credit in a foreign language continued in college may be counted as 3 units of the required 12.

San Jose State College:

Required: English 1, Speech 3-4 or 1-2, Chemistry 41 or 11, Commerce 29, Political Science 5, 6, Sociology 1, Psychology 1-2, H. & P. E. 1, 10, Commerce lab, Photography 1, Economics 13, Law 31.

Los Angeles State:

The same program as suggested for San Jose State College.

Political Science (College of Letters and Science)

Students majoring in Political Science should follow the program of studies outlined in the lower division requirements of Letters and Science. The following required and recommended subjects should be included:

At U.C. (Berkeley):

Required: Political Science 1-2 and Economics 1-2 or History 1-2 or History 3-4 or History 17-18 or Philosophy 1-2 or Geography 1-2 or Sociology 1-2.

Recommended: Any of the alternate courses listed above.

At U.C.L.A.:

Required: Political Science 1-2.

Recommended: Economics 1-2, History 1-2, 3-4, 17-18, Geography 1-2 or Philosophy 1-2, Political Science 6.

Psychology (College of Letters and Science)

The lower division requirements of Letters and Science should be followed by students planning to major in psychology. The following required and recommended subjects should be included:

U.C. (Berkeley):

Required: Psychology 1-2, Zoology 1-2, Mathematics 1 or equivalent.

Recommended: English composition, Mathematics, Philosophy, Anthropology, Sociology, and Economics.

At U.C.L.A.:

Required: Psychology 1-2.

Recommended: Zoology, Mathematics, Sociology, Chemistry, Physics.

Public Health (College of Letters and Science— University of California)

A certificate for Public Health Nursing may be obtained through graduate study in the University after one has taken a Bachelor's degree. This type of training should not be confused with undergraduate training in which a student majors in Public Health Nursing. The Public Health major should follow the program of studies for the lower division in Letters and Science. Students majoring in this field may find it advisable to transfer to the University at the beginning of the sophomore year.

Real Estate

Many job opportunities exist in the the larger real estate offices, real estate departments in banks, and in various departments of government agencies. The real estate field also offers excellent opportunities for individual proprietorship. Such opportunities and advancement depend upon basic training as well as individual initiative and experience in the field.

In the following real estate curriculum, special attention is given to the license requirements in California. The state requires that salesmen, agents, and brokers pass examinations before they may work in their respective fields.*

The curriculum suggested provides a wide general education in business administration as well as basic training in the specialty.

* For details regarding the examination, address: State of California, Division of Real Estate, Sacramento, California, Hubert B. Scudder, Commissioner.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 39-33	3	2
Commerce 15-16 or			Commerce 43		3
English 1-2	3	3	Commerce 47-48	2	2
Commerce 21-22 or			Law 25-23	2	2
Economics 13-14	4	4	Economics 1-2	3	3
Commerce 34-29	2	2	History 5 -		
Law 17-18	3	3	Political Science 5	2	2
H. & P. E. (activity)	½	½	H. & P. E. 1	2	
			Electives	2	2
			H. & P. E. (activity)	½	½
Total	15½	15½	Total	16½	16½

Salesmanship and Merchandising

The several types of organizations to be found in the distributive industry offer many specialized types of work, and opportunities exist for single proprietorship.

This curriculum is designed for those who plan careers in activities such as retail or wholesale selling, retail store management, advertising, or warehousing. The suggested curriculum offers a wide general education in business administration as well as basic training in the specialty.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Law 17-18	3	3
Commerce 15-16 or			Commerce 32-35	3	4
English 1-2	3	3	Commerce 47-48	2	2
Commerce 21-22 or			Social Science 31-32	4	4
Economics 13-14	4	4	H. & P. E. 1	2	
Commerce 29-31	2	3	Electives	2	3
Commerce 33	2	--	H. & P. E. (activity)	½	½
Commerce 34	2				
Electives		3			
H. & P. E. (activity)	½	½			
Total	16½	16½	Total	16½	16½

Secretarial Work

This curriculum is designed for those students who are willing to devote two full years to prepare for positions as office secretaries or as private secretaries to executives. Such opportunities exist in commercial, industrial and financial companies, as well as in government service.

Apprenticeship in routine jobs generally precedes advancement but a good basic training is essential to obtain the type of position desired.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Commerce 1A-1B	3	3	Commerce 1C-1D	2	2
Commerce 3A-3B	5	5	Commerce 3C-3D	4	4
Commerce 5A-5B	4	4	Commerce 21-22 or		
Commerce 15-16	3	3	Economics 13-14	4	4
H. & P. E. (activity)	½	½	Commerce 29-45	2	2
			Law 31		3
			History 5 -		
			Political Science 5	2	2
			H. & P. E. 1	2	
			H. & P. E. (activity)	½	½
Total	15½	15½	Total	16½	17½

Social Work (College of Letters and Science)

Students planning to qualify for positions of social service should major in Social Welfare. Beyond the Bachelor's degree it is possible to secure additional training on graduate level leading to the Certificate of Completion in Social Welfare. Training in this field prepares students for such positions as: Probation officer, institutional case worker, family case worker in public welfare agencies, and child welfare worker. Those majoring in this field are advised to secure a broad background of training in life science, social science, and psychology. Foreign language often proves beneficial. The regular Letters and Science lower division requirements should be met, including the following required and recommended subjects:

Required: Economics 1-2, Psychology 1-2, History 1-2. Elementary statistics (Economics 2) must be completed after transfer to the University.

Recommended: Speech 3-4, Life Science.

Teaching

A credential of the proper type is necessary for teaching in the public schools of various states. Students planning to become teachers in California must complete the requirements for at least one of the following types of credentials: kindergarten-primary, general elementary, junior high school, general secondary, junior college, or special secondary in art, music, business education, physical education, home economics, trade and industrial education.

The length of time needed to obtain one of the credentials listed above varies with the credential sought and, to some extent, with the institution chosen for completing the requirements. A minimum of one year of graduate study beyond the Bachelor's degree is necessary for the general secondary and junior college credentials. Requirements for other credentials can usually be met while working for the Bachelor's degree.

Since the teacher training institutions of California differ in their lower division requirements, a student should consult the catalog of the insti-

tution to which he wishes to transfer. The most significant difference is in the field of foreign language, where the requirement varies from sixteen units to none. Some institutions specify definite courses to be taken, while others specify only the earning of a prescribed number of units in certain subject matter fields. In general, a student should complete at Glendale College the requirements for junior standing in the college of letters and science of the institutions of his choice.

A. Kindergarten-Primary or General Elementary Credential.

Most institutions specify a definite unit requirement in English, the social sciences, and the natural sciences. Among the latter, Botany 1, Zoology 1, and Geology 1, are suggested. Psychology 1 and 2 should be included. For some institutions, a foreign language, Art 1 and 2 or 3 and 4, Music 1 and 3, Philosophy 1, and Speech 3 will be found necessary or desirable.

B. Junior High School, General Secondary, or Junior College Credential.

Students planning to secure one of these three credentials should follow the program of studies outlined for the major field in which they wish to teach by the institution to which they wish to transfer.

C. Special Secondary Credentials.

Students wishing to secure special secondary credentials should follow the pattern of courses laid down by the institution to which they wish to transfer. Students planning on teaching as a life career will find it advantageous to work for a general secondary rather than a special secondary credential, however, inasmuch as the latter greatly limits their usefulness to a prospective employer.

D. Emergency Credentials.

Because of a shortage of qualified teachers, particularly on the elementary level, the state of California is issuing emergency credentials to junior college graduates who complete one summer term of special courses at a teacher training institution and secure a teaching position for which the local school authorities will certify that no regularly certificated teacher is available.

Zoology (College of Letters and Science)

Students planning to major in this field should follow the lower division requirements of Letters and Science. In addition, the following subjects should be included:

Required: Zoology 1, 2; Chemistry 1, 2.

Recommended: Chemistry 5, 6; French, German; Elementary courses in other biological science and physical sciences.

JUNIOR STANDING REQUIREMENTS (See Note Below)

	U. of California Berkeley			U. of California at Los Angeles				U. of California Santa Barbara		California State Polytechnic C.		L. A. State C.	Occidental C.	Pomona College	U. of Redlands	San Diego C.	San Jose C.	U. of Southern California			Stanford U.			Whittier C.	
	Business Administration	Engineering	Letters & Science	Applied Arts	Business Administration	Engineering	Letters & Science	Applied Arts	Liberal Arts	Engineering	Science & Humanities							Commerce	Engineering	Letters, Arts & Sciences	Business Administration	Engineering	General		
	B	E				E																			
English		(6)g	(6)b	(6)l	3(6)g		3(6)g	6(3)k	9(3)k	6	12	3s	11-12	6(6)x	12	6	6	6	6	10		6	6	3(3)k	
Speech		(6)g	(6)b	(6)l				3(3)k	(3)k	2	2	2	3-4		2							2		(3)k	
P. E.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2		
Hygiene										2	2	2				2	2	2	2	2		2*			
Am. Hist. & Const.	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	
Foreign Lang.		(8)g	16*a (8)b	0-16*(8)l	8*j		16*a		12*j				8		8*	0-8*				12*j		14*j	14*j		
Biol. Science		(6)g	} 12*	} 0-12	5z	3	5	3-7	7		4	3-6	3v	6-8*	3-9	3-9*	} 10z	} 22e	} 11*					6-8*	6
Physical Science		22e			5z	22e	5	4-7	6	12q	9	3-6	6-8v	6-8*	3-9	3-9*									
Mathematics	6d	12f	(6)b	(6)l	6d	12f				12f	4							6d	16f				12f		
Social Science	20c	(6)g	(6)b	(6)l	20iy		12i	9	12m	6	12p	9	13-14w	12aa	12	12*	12	10n		10r			15t	15t	16
Philosophy		(6)g	(6)b	(6)l	(6)g		(6)g		6			s	3	6						3					
Psychology		(6)g	(6)b	(6)l				3			3	3	3		3	3	3	3	3	3				3	
Art or Music		(6)g	(6)b	(6)l	(6)g		(6)g	4	8			s	6	(4-6)x						2				4	
Engineering		7h				7h				6r										o		3u			
Total Units	60	60	60	60	60	60	60	60	60	64	64	60	64	60	60	60	60	60	60	60		60	60	60	

GRADUATE SCHOOL

*High school courses may be applied toward this subject requirement.

R—Required.

E—Plus special entrance examination.

B—Plus junior standing requirements in any college of the university.

a—In not more than 2 languages.

b—Four year-courses selected from those in parentheses.

c—Econ. 1-2, Econ. 13-14, Law 17-18.

d—Math. 1 and 9.

e—Chem. 1-2, Physics 1, 2, 3, 4.

f—Math. 3-4, 5-6.

g—Two year-courses selected from those in parentheses.

h—Engineering 3, 8, 11 plus courses needed for major.

i—Must include Hist. 1-2, or 3-4, or 17-18.

j—In one language.

k—Choice of 3 units of English or Speech.

l—Three year-course selected from those in parentheses.

m—Must include History 17-18.

n—Preferred Course: Hist. 7-8.

o—See courses needed for the major.

p—Including Econ. 1-2 and Pol. Sci. 1-2 or 5-6.

q—Physics 1-2, 3-4.

r—Engineering 1 and 2.

s—6 units from literature, philosophy or the arts.

t—Including Hist. 7-8 and 1, or Hist. 1-2 and 7.

u—Engineering 1, plus courses needed for the major.

v—All except science majors must take Biol. 1, Geol. 1, and Physics or Chemistry.

w—Soc. Sci. 31-32 (or Hist. 5, Pol. Sci. 5 & Econ. 1), and Hist. 7-8.

x—One year course selected from those in parenthesis.

y—Must include Econ. 1-2, Econ. 13-14.

z—Must include one laboratory course in science.

aa—Two year courses.

Note:—For major requirements, specific course requirements and accepted substitutions, consult the catalog of the college or university concerned.

COURSES AND THEIR CONTENT

Courses are listed in numerical order under department headings which are in alphabetical order. Some courses are of only one semester duration; hence only one number appears in front of the course title. Others continue for two or more semesters; these are designated by one of two methods. One is by a number-letter combination, e.g., Commerce 5A-B; the other is by consecutive numbers, e.g., Commerce 21-22.

The credit value of each course is indicated for each semester by a number in parentheses following the title. For example, a (3) indicates that the course is a one-semester course and carries three units of credit. A (3-3) indicates that the course is a continuation course carrying three units of credit for each semester of two consecutive semesters. Glendale gives unit credit for each semester's work of continuing courses.

Whether or not all courses described below will be offered during the present academic year will depend on the student enrollment.

ANATOMY

11 Introductory Anatomy (4)

Prerequisite: A year course of science taken in the 11th or 12th grade with a "B" grade or better or a science course taken in college with "C" grade or better.

A systematic consideration of the structure of the human body. By the dissection of a mammal and use of charts and models, human systems are illustrated. Two hour-lectures and three-hour laboratory periods per week.

ARCHITECTURE

1 Elementary Drafting (3)

Prerequisite: None

Note: Required for Architectural majors who have not had at least one year of architectural drafting in high school. Recommended for Art majors. This course may not be taken for credit by students who have completed Engineering 1.

Training in the use of instruments and in the fundamentals prerequisite to work in Art and Architecture.

3 Descriptive Geometry (2)

Prerequisite: Architecture 1 or one year of architectural or mechanical drawing in high school.

Note: Required for Architectural majors. This course may not be taken for credit by students who have completed Engineering 3.

An applied science treating of graphic representation of lines, planes, surfaces, and solids. Architectural applications are used for subject matter.

5 Perspective (3)

Prerequisite: Architecture 3, Art 43, and Art 5-6. (Art 6 may be taken concurrently.)

Note: Required for Architectural majors and highly desirable for Art majors.

A course in technical perspective. Drawing of various type objects and their shadows, rendering in various media, sketching in of people and landscape background and foreground.

9-10 Architectural Drafting (4-4)

Prerequisites for 9: Art 3 or 43, 5, and Architecture 1 or one year of architectural drafting in high school. (These college prerequisites may be taken concurrently.)

Prerequisite for 10: Architecture 9

A study of the residence and its design. Measured and scale detailing, framing, and the application of building codes to such construction. This course includes blue print reading, use of symbols and conventions, study of stock dimensions and spacings of framing lumber, and household equipment sizes. Field trips to current jobs.

11-12 Advanced Architectural Drafting (5-5)

Prerequisite for 11: Architecture 10

Prerequisite for 12: Architecture 11

Planning and detailing of structural framing and materials for erection of commercial and institutional buildings. Use of building codes and specifications with reference to fire resistant types of construction. Study of physical properties and strength of materials in practical applications. Preparation of complete sets of working drawings, including various presentation media.

17 Interior Architecture and Decoration (3)

Prerequisites for 17: Art 3 or 43 and 5

Basic planning of architectural interiors and application of period and contemporary furnishings. Practical treatments of interior construction, cabinet work, materials, courses of supply and costs. Field trips to stores and decorators' studios.

23 Industrial Design (2)

Prerequisites: Art 3 or 43 and 4. (Art 4 may be taken concurrently.)

A course leading the student through a series of experiences which include the making of abstract designs, drafting designs for utilitarian articles, and the making of three-dimensional models. Students use shop equipment and actual building materials (wood, metal, clay, thermoplastics) to translate design principles into solutions of architectural, furniture, and industrial problems.

ART

1-2 History of Art (3-3)

Prerequisite for 1: None

Prerequisite for 2: None

A study of art and its development for prehistoric man to the present day. Art 1 includes the periods from Primitive through Gothic. Art 2 consists of the periods from Gothic through Modern.

3-4 Art Structure (2-2)

Prerequisite for 3: At least one year of art training in high school.

Prerequisite for 4: Art 3 or a grade "C" or better in Art 43.

Note: Students without one year of art training in high school should take Art 43. Art 3 may not be taken for credit by students who have completed Art 43.

A study of space and color relationships expressed two dimensionally and three dimensionally in line, form, and texture.

5-6 Freehand Drawing (2-2)

Prerequisite for 5: None

Prerequisite for 6: Art 5

A study of line, mass, space, texture, and light and shade. This course included still life, landscape, buildings, figure, and imaginative composition, rendered in various media.

7-8 Elementary Life (2-2)

Prerequisite for 7: Art 5. (Art 5 may be taken concurrently.)

Prerequisite for 8: Art 7

Drawing from life to develop the ability to construct the figure. Study of shapes, proportions, and structural relation of the skeletal masses; the balance of weights and supports in a moving figure. Introductory study of muscle masses.

9-10 Advanced Life (2-2)

Prerequisite for 9: Art 8

Prerequisite for 10: Art 9

Drawing from life for development of the ability to use the figure creatively. Art 9 stresses the study of anatomy. Art 10 develops compositional treatment of the figure.

11-12 Water Color (2-2)

Prerequisites for 11: Art 3 or 43 and 5.

Prerequisites for 12: Art 4, 6, and 11. (Art 4 and 6 may be taken concurrently.)

Painting of still life and landscape. Technique and composition through the medium of color. Useful in many fields, especially in the fine arts, applied arts, and architecture.

13-14 Costume Design and Application (3-3)

Prerequisite for 13: Art 43 or at least one year of art training in high school. (Art 43 may be taken concurrently.)

Prerequisite for 14: Same as for 13.

A course to develop design, line, balance, and color as applied to modern fashion trends for the individual.

Not to be given 1951-52.

19 Oil Painting (2)

Prerequisite: Art 5. (Art 5 may be taken concurrently.)

Note: Art 3 is recommended.

Development of skill, technique, and composition in oil painting.

21-22 History of Costume (2-2)

Prerequisite for 21: None.

Prerequisite for 22: Art 21.

A study of the costumes worn by men and women during the various periods of history, with particular emphasis on its application to courses on costume design and construction.

23-24 Silk Screen Printing (2-2)

Prerequisite for 23: None

Prerequisite for 24: Art 23

Notes: Art 43 recommended for students without previous art training.

Various techniques of silk screen preparation; printing on different materials, using water color, oil paint, and textile pigments. In the second semester the student may choose more advanced individual projects in the different fields of advertising, fine arts, or applied arts. A very practical course which can be the basis for either a business or a professional career.

25 Pen and Ink (2)

Prerequisite: Art 5 and 6. (Art 6 may be taken concurrently.)

Note: Art 3-4 is recommended.

Facility in the use of this medium prepares the student for work in the fields of animation, magazine and newspaper illustration, and fine arts expression.

29 Composition (2)

Prerequisite: Art 4, 6, and a choice of Art 11, 19, or 25. (Art 4 and 6 may be taken concurrently.)

Note: Art 7 is recommended.

A course in the application of the principles of art for the more advanced student. Emphasis on creative work. Choice of media and techniques among oil, water color, tempera, or casein painting. Among the subjects treated are life, still life, landscape, commercial illustration, and abstractions.

31 Art Survey (3)

Prerequisite: None.

Line, form, light, volume, space-time, and texture. Art terminology and are use of this vocabulary. Illustrated and demonstrated by motion pictures, color photography, slides, collections of art objects, guest speakers, and guest artists. Outside lectures and exhibitions are assigned.

33 Freehand Sketching (1)

Prerequisite: None.

Note: This course may not be taken for credit by students who have completed Art 3, 5, 7, 11, 13, 23, or 43.

For engineers, science majors, salesmen, and many others who will find this course to be the answer to a definite need—that of sketching quickly and accurately in order to convey an idea. It teaches how to draw in correct outline and proportion for descriptive purposes only.

34 Lettering (1)

Prerequisite: None.

Note: Recommended for all Art majors as a foundation for more advanced work in Art Department.

Fundamental study of letter forms. Short history of lettering and typography; problems in the forming and structure of letters, including the single stroke alphabet.

35-36 Elementary Advertising Art (2-2)

Prerequisites for 35: Art 3 and 5. (Both may be taken concurrently.)

Prerequisites for 36: Art 4, 6, and 35. (Art 4 and 6 may be taken concurrently.)

Introduction to advertising work; spacing roughs, from comprehensives to finished work. Lectures on reproduction methods. Problems in the adaptation of lettering to layouts, package design, etc.

37-38 Advanced Advertising Art (2-2)

Prerequisites for 37: Art 7 and 36

Prerequisite for 38: Art 37

Practice in various phases of advertising: book jackets, billboards, magazine pages, covers, display and showcase work, experimental projects. Emphasis on finished art and layouts.

39-40 Ceramics (2-2)

Prerequisite for Art 39: None.

Prerequisite for Art 40: Art 39 or at least one year of Ceramics in high school.

Note: Students who have credit for ceramics in high school may not take Art 39 for credit.

Design and form building in ceramics, hand built, coil, slab and carved methods; mold making; slip casting; glazing and firing. Use of the potter's wheel, turning and shaping of solid form; finishing; throwing.

41-42 Advanced Ceramics (2-2)

Prerequisite for Art 41: Art 40

Prerequisite for Art 42: Art 41

Continuation of Ceramics 40; small ceramic sculpture; study of glazes and their development.

43 Elementary Design and Drawing (3)

Prerequisite: None

Note: For students who have had less than one year of art training in high school. A grade of "C" or better in this course may be substituted for Art 3. Students who have had one year or more of art training in high school should take Art 3. They may not register in Art 43 for credit.

A beginning course in drawing, design, and painting planned to acquaint the student with basic art concepts, techniques, media, and terminology.

45 Color (2)

Prerequisite: None

The study of the nature, psychology and uses of color, including the study of color mixing, and the practical application of color harmonies to the home, business display and personal problems of clothing.

ASTRONOMY

1 Elements of Astronomy (2)

Prerequisite: None

An introductory, descriptive course in the fundamental facts of the universe, presented as far as possible in non-technical language. The development of the sidereal universe is explained by lectures, field trips to observatories, and constellation and telescopic studies.

AVIATION

1 Private Pilot Course (3) (35-40 hours of flying)

Prerequisite: None

Note: Aviation 10 should be taken prior to or concurrently with this course.

A course of flight training which meets the Civil Aeronautics Administration's flight experience requirements for the Private Pilot License. The course includes pre-solo, basic air work and cross country flying. The student is individually scheduled at the airport.

2 A-B Commercial Pilot Flight Course (3-3)

Prerequisite for 2A: Aviation 1 or a Private Pilot License.

Prerequisite for 2B: Aviation 2A or 100 hours of flight time; Aviation 11, 12, 13, 14 must be taken prior to or concurrently with this course.

A course of 160 hours of flight training which meets the C.A.A. flight experience requirements for the Commercial Pilot License. The course includes basic air work, cross-country flying, and advanced flight maneuvers. The flights are individually scheduled at the airport.

3 Flight Instructor Rating Course (3)

Prerequisite: Commercial Pilot License or 200 hours of solo flight time.

A course of 35 hours of flight training which meets the C.A.A. requirements for a Flight Instructor Rating. The flights are individually scheduled at the airport.

4 Instrument Rating Course (3)

Prerequisite: Commercial Pilot License or 150 hours of flight.

A course of at least 10 hours of Link Trainer simulated flight and 20 hours of actual instrument flight. The course includes basic instrument flying, radio orientation, and procedures. Students are prepared for the C.A.A. Instrument Rating.

5 Flight Indoctrination (1)

Prerequisite: None

An introduction to modern aviation. A series of simulated flight experiences and problems in the Link Trainer. When practicable, laboratory flights will be made to acquaint the student with actually piloting a plane. Students are individually scheduled for this training.

7 Multi-Engine Rating Course (2)

Prerequisite: Aviation 1 or a Private Pilot License.

A theoretical study with from 10 to 14 hours of multi-engine flight instruction to prepare the student for the C.A.A. multi-engine rating examination. This course covers pre-flight inspection, loading, operation and performance, emergency equipment, and single engine operation.

10 Introduction to Aviation (3)

Prerequisite: None

A basic course in general aviation. The course includes a study of civil air regulations, the theory of flight maneuvers, general service of aircraft, aerial navigation, and a brief study of weather and weather maps. Approved C.A.A. Basic Ground School for Private Pilot License No. 7001.

11 Navigation (2)

Prerequisite: None

A course including a brief study of navigation by visual reference to the ground and thorough study of aerial charts. Stressed are the methods of obtaining the position of aircraft by keeping accounts of directions and distances traveled. Fundamentals of radio navigation are introduced. Approved C.A.A. Advanced Ground School for Commercial Pilots No. 7001. Course is not limited to pilots.

12 Meteorology (2)

Prerequisite: None

Elementary study of the basic principles of meteorology with emphasis being placed on physical laws that operate in the atmosphere, particularly as they affect aircraft in flight. Weather maps and their interpretation are stressed. Approved C.A.A. Advanced Ground School for Commercial Pilots No. 7001.

13 Aircraft Structure and Power Plants (2)

Prerequisite: None

A practical course in aircraft structures and power plants. The study will include structures, operation, maintenance and servicing as they apply to the pilot. Course meets C.A.A. requirements for Commercial Pilots in the subjects of aircraft engines. Approved C.A.A. Advanced Ground School No. 7001.

14 Radio Procedures and Flight Regulations (2)

Prerequisite: None

A course covering radio navigation, voice procedures, radio code, and civil air regulations which prepares the student for the C.A.A. Commercial Pilot written examination on C.A.R. and Radio. Approved C.A.A. Advanced Ground School No. 7001.

15 Flight Instruction Technique (3)

Prerequisite: None

A course including demonstrations of maneuvers, lesson plans, psychology of instruction and grading. Students are prepared for the C.A.A. Flight Instructor written examination.

16 Radio Navigation (3)

Prerequisite: Aviation 11

A detailed study of aircraft radio equipment, radio orientation, beam flying, and standard instrument approaches. Students are prepared for the C.A.A. Instrument examination.

17 Aerial Navigation (2)

Prerequisite: 200 hours of aerial navigation experience.

A course to prepare for the C.A.A. examination for the Navigator Rating. Intensive instruction will be given in the Civil Air Regulations, meteorology, radio and celestial navigation.

**21AB-22AB-23AB Aircraft Engine Overhaul and Maintenance
(4-4-4-4-4)**

Prerequisite for 21AB: None

Prerequisite for 22AB: None

Prerequisites for 23AB: None

Note: B may be taken prior to A.

A vocational program in three semesters leading to the C.A.A. Engine Mechanic Rating. The work is divided into units of nine weeks in length (one-half semester) designated as parts A and B. The units of work are as follows:

- 21A Engine theory and magnetic inspection.
- B Lubricants, lubrication systems, and powerplant lubrication.
- 22A Carburetion, carburetors, and fuel systems.
- B Electricity, ignition systems, batteries, electric motors, and battery charging systems.
- 23A Propellers and propeller governors.
- B Civil Air Regulations, weight and balance, flight line inspections, and trouble shooting.

Five four-hour periods each week combining theory and practical shop work. The courses are based on standards required for C.A.A. Certificated Schools. Employed aircraft mechanics may take individual units of Aviation 21, 22, and 23 without regard to prerequisites at the discretion of the instructor. Approved C.A.A. Engine Mechanics School No. 3415.

25AB-26AB-27AB Airplane Maintenance and Repair (4-4-4-4-4)

Prerequisite for 25AB: None

Prerequisite for 26AB: None

Prerequisite for 27AB: None

Note: B may be taken prior to A.

A vocational program in three semesters leading to the C.A.A. Airplane Mechanic Rating. The work is divided into units of nine weeks in length (one-half semester) designated as parts A and B. The units are as follows:

25A Aircraft woodwork, fabric work, doping, and painting.

B Aerodynamics, assembly, and rigging.

26A Aviation sheet metal.

B Aircraft welding.

27A Hydraulics and electrical systems.

B Weight and balance. Civil Air Regulations, instruments, inspection, and maintenance.

Five four-hour periods, each week combining lectures and shop training. The courses are based on standards required for C.A.A. Certificated Schools. Employed aircraft and engine mechanics may take individual units of Aviation 25, 26, and 27 without regard to prerequisites at the discretion of the instructor.

31 Flight Engineer Rating Course (6)

Prerequisite: One of the following: a. Four years of aircraft maintenance experience, b. Aeronautical Engineer Degree, c. 200 hours as first pilot.

A course to prepare for the C.A.A. examination for Flight Engineer Ratings. Intensive instruction will be given in the following: the atmosphere, instruments, power plant principles, operation and performance, airplane principles, operation and performance, flight control, weight and balance, and panel operation.

33-34 Aircraft Engine Overhaul and Maintenance

Prerequisite for 33: None

Prerequisite for 34: Aviation 33

Note: One unit of credit is granted for each 45 hours of class work. Limit 24 units.

Practical and theoretical instruction on aircraft power plants and their accessories. Intensive instruction will be given in the following fields:

ignition and engine electrical systems, lubrication, carburetion and fuel systems, power plants, propellers, Civil Air Regulations, weight and balance procedures and computations, mechanical drawing, flight line maintenance, and engine test stand operation. Instruction will be given on running engines and accessories. The courses are based on standards required for C.A.A. Certificated Schools. Employed aircraft and engine mechanics may take individual units of Aviation 33 and 34 without regard to prerequisites at the discretion of the instructor.

35-36 Airplane Maintenance and Repair

Prerequisite for 35: None

Prerequisite for 36: Aviation 35

Note: One unit of credit is granted for each 45 hours of work. Limit 24 units.

Practical and theoretical instruction on aircraft structures and maintenance. Intensive instruction will be given in the following fields: rigging and assembly, woodwork, fabric, doping, painting, sheet metal, welding, hydraulics, and Civil Air Regulations.

49 Air Transportation (3)

Prerequisite: None

Development of air transportation, commercial airplanes, organization and functions of airline, regulations, airline routes in the United States and the world, schedules and services, revenue sources and potential operating overhead. Importance of airports and airways, advertising, and public relations are stressed.

BACTERIOLOGY

11 Introductory Bacteriology (4)

Prerequisite: Any one of the following: Physiology 11, Biology 1, Chemistry 1, 11 or 41 or physiology or chemistry in high school.

Note: Required of pre-nursing students.

The nature, occurrence, classification, and bio-chemical activities of bacterial diseases and preventive practices; disease and immunity, sanitary applications; bacteriology in food and disease; commoner bacterial diseases and preventive practices. Laboratory work includes routine techniques, identification, growth characteristics, and microscopic study of important type organisms and pathogens.

BIOLOGY

1-2 Fundamentals of Biology (3-3)

Prerequisite for Biology 1: None

Prerequisite for Biology 2: Biology 1

Important principles of biology illustrated by studies of structure and activities of living organisms, both plants and animals.

11 Heredity and Eugenics (3)

Prerequisite: One semester of a college biological science.

The principles of genetics and their scientific applications to the improvements of plants, animals, and man.

47-48 Problems in Life Science (1-1)

Prerequisite for 47: A life science course in high school or college.

Prerequisite for 48: Same as for 47.

Special experimental work in Life Science. Three hours laboratory each week.

BOTANY**1 General Botany (5)**

Prerequisite: None

A survey of fundamental biological facts and principles as illustrated by plant life. The properties and activities of protoplasm, the structure and functions of the cell and of the principal tissues and organs of flowering plants, reproduction, and the mechanism of inheritance. The evolution of the plant kingdom dealing with the comparative morphology of all the great plant groups. Three hours of lecture and two three-hour laboratory periods each week.

CHEMISTRY**1-2 General Chemistry (5-5)**

Prerequisite for 1: A satisfactory grade in the Chemistry Aptitude Test and completion of any two of the following courses in college or high school: chemistry, physics, or trigonometry; grades in high school courses must be "B" or better.

Prerequisite for 2: Chemistry 1 with a grade of "C" or better.

A course of fundamental chemistry designed to set fourth the most important facts and theories with which chemistry is concerned. Basic laws and chemical calculations are stressed. Three hours of lecture and two three-hour laboratory periods each week.

3-4 Quantitative Analysis (3-3)

Prerequisite for 3: Chemistry 2 with a grade of "C" or better

Prerequisite for 4: Chemistry 3 with a grade of "C" or better

Note: Chemistry 3 is required for pre-medical and osteopathic students. Chemistry 3-4 is recommended for majors in chemistry, physics, pharmacy, mining engineering, metallurgical or petroleum engineering, sanitary and municipal engineering, certain agriculture and public health curricula and medical technologists.

The principles and methods of quantitative chemical analysis. Large numbers of illustrative problems are solved. Fundamental gravimetric,

volumetric, and potentiometric procedures are covered, as well as electrolytic deposition, gas analysis, and specialized techniques. Two hours of lecture and two three-hour laboratory periods each week.

5-6 Organic Chemistry (3-3)

Prerequisite for 5: Chemistry 2 with a grade of "C" or better.

Prerequisite for 6: Chemistry 5 with a grade of "C" or better.

Note: Required of pre-medical and pre-dental students, of majors in chemistry, petroleum engineering, sanitary and municipal engineering, and pharmacy; and for certain home economics, public health, and agriculture majors.

An introductory study of the compounds of carbon. For Chemistry 5, two hours of lecture and two three-hour laboratory periods each week; for Chemistry 6, two hours of lecture and two two-hour laboratory periods each week.

11-12 Elements of General Chemistry (4-4)

Prerequisite for 11: Mathematics 41 and 40 or one year of algebra and one year of geometry in high school.

Prerequisite for 12: Chemistry 1 or 11

Note: This course should be elected by all Physical Education majors, Home Economics majors, students wishing to enter the School of Nursing at the University of California, Berkeley, and those desiring a cultural knowledge of scientific matters. Nursing majors should see note under Chemistry 41.

An intermediate course in the fundamental principles and laws of inorganic chemistry emphasizing the descriptive phases and including a brief introduction to the chemistry of the carbon compounds. Three hours of lecture and recitation with one three-hour laboratory period each week.

15-16 Organic, Medical, and Food Chemistry (3-3)

Prerequisite for 15: Chemistry 2 or 12

Prerequisite for 16: Chemistry 3, 15, or 5-6. (Chemistry 6 may be taken concurrently.)

Note: Recommended for nurses and Home Economics and Physical Education majors.

A course of instruction in the chemistry of carbohydrates, fats, proteins, body tissues, body secretions, medical and pharmaceutical products. Blood and urine analysis. One hour of lecture and two three-hour laboratory periods each week.

41 Introductory General Chemistry (5)

Prerequisite: None

Note: Recommended as a foundation course for either Chemistry 11 or 1. A grade of "A" or "B" in this course satisfies the chemistry requirements for nurses as prescribed by the California State Board of Nursing Examiners.

An introductory course emphasizing the essential principles of chemistry with a descriptive survey of chemical facts and including a brief introduction to elementary organic chemistry. Reference is made to industrial and practical home chemistry. Four hours of lecture and recitation with one three-hour laboratory period each week.

45-46 Biochemistry (3-3)

Prerequisite for 45: Chemistry 41 or chemistry in high school.

Prerequisite for 46: Chemistry 41 or 45, or chemistry in high school.

A study of the physiological chemistry of the body; the place of protein, carbohydrates, and fats in digestion; the role played by vitamins and hormones; the chemistry of blood and urine; and the calorific value of foods. Sufficient laboratory technique is acquired by the student to undertake office and laboratory work in the medico-dental field. A course similar to Chemistry 15-16 in subject matter but designed and treated particularly for students enrolled in the Laboratory Technician Curriculum. One hour of lecture and two three-hour laboratory periods each week.

47-48 Chemical Apparatus (1-1)

Prerequisites for 47: Chemistry 41, 11, or chemistry in high school.

Prerequisite for 48: Same as for 47.

Laboratory work in designing and constructing apparatus for chemical lecture demonstrations. Instruction in glass blowing. Three hours each week.

COMMERCE

1A Elementary Typing (3)

Prerequisite: None

The basic essentials of typing designed to give the foundation for thorough training in typing.

1B Intermediate Typing (3)

Prerequisite: Commerce 1A or a net speed of at least 25 words a minute.

Continuation of Commerce 1A. Emphasis is placed upon usable copy, business letters, reports, and tabulation work.

1C Advanced Typing (2)

Prerequisite: Commerce 1B or a net speed of at least 40 words a minute.

Advanced typing is vocational, and the standards are set in terms of business demands. Emphasis is placed on speed and accuracy in doing professional work.

1D Advanced Typing (2)

Prerequisite: Commerce 1C or a net speed of at least 50 words a minute.

Continuation of Commerce 1C. A complete review of business letters and business forms. A study of legal forms and rough drafts.

3A Elementary Shorthand (5)

Prerequisite: Good scholarship and a typing speed of 50 words a minute or typing taken concurrently.

An intensive course in shorthand covering theory and transcription. Fundamentals of shorthand are mastered and emphasis is placed on correct writing technique.

3B Intermediate Shorthand (5)

Prerequisite: Commerce 3A or one year of shorthand in high school. A typing speed of 60 words a minute or typing taken concurrently.

Continuation of Commerce 3A. Dictation, transcription, and a review of theory. This course is designed to train stenographers to meet the demands of the business world.

3C-D-E-F Advanced Shorthand (4-4-3-3)

General Prerequisite: A typing speed of 60 words a minute or typing taken concurrently.

Prerequisite for 3C: Five-minute 80-word test or Commerce 3B.

Prerequisite for 3D: Five-minute 100-word test or Commerce 3C.

Prerequisite for 3E: Five-minute 120-word test or Commerce 3D.

Prerequisite for 3F: Five-minute 130-word test or Commerce 3E.

A thorough review with emphasis placed upon short cuts and phrase writing. Individual work in shorthand speed and transcription speed.

5A-B Office Practice (4-4)

Prerequisite for 5A: A typing speed of 50 words a minute or typing taken concurrently. (Exception: those who have taken typing through Commerce 1C.)

Prerequisite for 5B: Same as for 5A.

A course in secretarial practices, office procedures, and machine calculation. A study is made of the duties of various types of office workers. Projects are worked out in the basic systems of filing, the handling of mail, telephone calls, interoffice communications, telegrams, banking transactions, the use of shipping services, and the planning of itineraries. About half of the student's time is spent in development of skill in the operation of the Comptometer, Monroe Dictaphone, Ediphone, Mimeograph, and Ditto machines. Time is devoted to the development of desirable personality traits and qualifications of office workers.

5C Varsityper (3)**5D PBX (3)****5E Machine Bookkeeping (3)**

Prerequisite to 5C-D-E: Commerce 5A or 5B taken concurrently.

Intensive courses of not less than nine hours per week to develop saleable skills.

11 Intensive Business Training (see Note)

Prerequisite: None.

Note: Credit is recorded in any subject upon finishing all parts comprising the subject, or in Commerce 11 for all finished parts of unfinished subjects upon student's withdrawal. Certificates of Proficiency are granted upon attainment of set standards.

An intensive beginning or review course to meet the needs of the student who has a limited time to prepare for a position in business. Students may enroll in any or all of the subjects offered at any time. Instruction is individualized, and a specialist from the staff in each subject offered spends an hour each day with the class. The following subjects, described elsewhere in the catalog, are broken down into one-unit parcels requiring approximately 45 hours each for completion: Commerce 1A-B-C-D-E-F Typing; Commerce 3A-B-C-D-E-F Shorthand; Commerce 5A-B Office Practice; Commerce 15 English for Business; Commerce 21-22 Bookkeeping; Commerce 29 Business Mathematics.

15 English for Business (3)

Prerequisite: None

A course designed to help secretarial and commerce students overcome deficiencies in grammar, punctuation, and spelling—those defects which hinder young men and women entering the business world in expressing their thoughts effectively and concisely or in transcribing their shorthand notes correctly.

16 Writing in Business (3)

Prerequisite: None

A course designed to help students acquire proficiency in writing business letters and reports, particularly to train them for positions as correspondence, order, and adjustment clerks. Individual supervision is given in the writing of letters of application, order, adjustment, credit, collection, and sales.

21-22 Bookkeeping (4-4)

Prerequisite for 21: None

Prerequisite for 22: Commerce 21 or two years of bookkeeping in high school with grades of "A" or "B."

An introductory course in bookkeeping including study of the accounting equation, the theory of debit and credit, accounting devices, working papers and business forms, and the preparation of balance sheets and profit and loss statements. Commerce 22 includes bookkeeping principles as applied to partnerships, corporations, departments and branches. Practical bookkeeping problems and practice sets are emphasized more than theory.

27-28 Applied Accounting (3-3)

Prerequisite for 27: Commerce 21, Economics 13, or one year of bookkeeping in high school with grades of "A" or "B."

Prerequisite for 28: Same as for 27.

Practical experience in the Student Accounting Office. The theory and practice of budgetary accounting including controlling accounts and subsidiary ledgers; the receipt and disbursement of money and the preparation of vouchers therefor including analysis of transactions; transactions with a bank including making deposits, writing checks, and reconciling account; recording transactions, posting and proving cash, balancing the bank account, the general ledgers, and subsidiary ledgers daily; and the preparation of reports and financial statements. Problems related to tax accounting and reports for sales, admission, social security and payroll, and individual income taxes.

29 Business Mathematics (2)

Prerequisite: None

An intensive course in the fundamentals of arithmetic designed to assist merchandising, secretarial, clerical, and accounting students prepare for a successful career. Practical problems develop the speed and accuracy required by business concerns. Attention will be given to calculations in billing, markup, turnover, payrolls, interest, discounts, installment selling, stocks, bonds, insurance, and annuities.

31 Principles of Marketing (3)

Prerequisite: None

A general course intended to acquaint the students with the activities, the middlemen, and the business practices involved in the moving of goods from farms, factories, and mines to the ultimate consumers. The course deals with the problems of wholesalers, retailers, transportation companies, warehouses, and cooperatives. Consumer protection, analyses of marketing costs, the establishment of sound sales policies and methods are emphasized.

32 Store Management and Merchandising (3)

Prerequisite: None

Problems of concern to the person who wishes to organize and operate a small store, the store manager, or a department store buyer. The course covers plans for financing; selection of location; choice of partnership or corporation; selection and training of employees; merchandising policies; problems of mark-up, mark-down, turn-over, stock control, inventory methods, layout, advertising and display.

33 Salesmanship (2)

Prerequisite: None

A salesmanship class in which each student selects an article or sales proposition, makes a careful study of it, and presents it before the class or a qualified prospect. His methods of approaching the prospect, demonstrating his goods, and closing his sales are discussed and criticized. Successful salesmen are invited to give demonstrations of how sales actually are made. Fundamental principles of retail, wholesale and specialty selling are given in sufficient detail to fit the student for an apprenticeship position in any of these fields, whether it be selling ideas, services, or goods.

34 Advertising (2)

Prerequisite: None

An introductory course in the economics, purpose, and principles of advertising including the organization and functions of advertising agencies. Stress is laid on copy appeals, types of copy, and suggestions for developing good copy. The purpose of this course is to give merchandising and advertising art students a general knowledge of advertising. It is not intended to develop artistic ability, but those who can illustrate their copy will find an opportunity to do so. Courses in lettering and in advertising art are offered by the Art Department.

35 Supervised Retail Selling (4)

Prerequisite: Commerce 31, 32, or 33 with a grade of "C."

A practical course in which students develop skill in retail selling by actually working on the job. The course consists of two hours per week of class discussion on retail sales problems and in addition an average of ten hours per week in a selling job for grocery, stationery, men's or women's furnishings, department, hardware, or other retail store. Five hours per week in the Cooperative Bookstore may be substituted for the outside sales work, or a combination of work outside and in the Co-operative Store may be arranged with the instructor. In any case, the student is supervised on the job, and the employer is expected to turn in reports regarding his progress.

Will not be offered in 1951-1952.

39 General Insurance (3)

Prerequisite: None

A course giving full consideration to the major topics of fire, marine, casualty, and life insurance. It also treats credit and title insurance, fidelity bonds, judicial bonds, contract bonds, and other types of surety contracts.

Will not be offered in 1951-1952.

41 Money and Banking (2)

Prerequisite: None

A course designed to help young men and women secure employment with investment banking houses, commercial banks, finance companies, stock and commodity exchanges, and securities dealers. The study of the American monetary system and of the history of American financial institutions provides much of the vocational background. Lectures, class discussions, problems, and reports.

42 Investments (2)

Prerequisite: None

A course designed to acquaint the students with sources of capital, types of securities, and the operation of brokerage and investment banking houses. Objectives of the course are the understanding of investment principles and the acquisition of the skills needed for a salesman or clerical worker to succeed in the securities business.

43 Real Estate Analysis (3)

Prerequisite: None

A course treating real estate and the economy which includes property rights, real estate and the national economy, real estate and the city land and its development, and building and its problems; legal processes and instruments; the real estate market including price fluctuations and cycles, values and appraisals, sales, rentals, and management; real estate financing including primary and secondary sources of funds, servicing of mortgage loans and foreclosures; and public interest including taxes and insurance, eminent domain and condemnation, planning and zoning, and public and veterans' housing.

Will not be offered in 1951-1952.

45 Consumer Problems (2)

Prerequisite: None

Personal finance involving effective use of family income, which includes savings for major investments and retirement, by a study of such consumer problems as intelligent buying, an evaluation of consumer research and product testing organization, taxes, insurance, household budget, cooperatives, banking and renting and buying a home.

47-48 Industrial Organization and Management (2-2)

Prerequisite for 47: None

Prerequisite for 48: None

An appreciation of industrial organization, economics, and government rules and regulations applied to industrial and labor relations. Emphasis is placed on industrial organization during the first semester and on personnel management during the second. Included are advantages and disadvantages of various methods of organization; management policies and problems; establishment of compatible working relations; causes of labor unrest; methods of selecting, testing, placing and training; building morale; methods of giving orders; counseling; merit rating; wage analysis; safety and accident prevention; and collective bargaining.

ECONOMICS**1-2 Principles of Economics (3-3)**

Prerequisite for 1: Sophomore standing

Prerequisite for 2: Economics I

An introductory course dealing with the fundamental principles of economics. Consumption, production, exchange, distribution. Basic problems relating to our modern economic system.

11 Economic History of the United States (3)

Prerequisite: None

A history of the economic development of the United States from its settlement to the present. Emphasis is placed on the growth and development of institutions and movements in our modern society. This course meets the California State requirement in American History.

13-14 Principles of Accounting (4-4)

Prerequisite for 13: Good scholarship

Prerequisite for 14: Economics 13

Note: See Commerce 21-22.

The accounting equation, the theory of debit and credit, the classification of accounts, the procedure of recording transactions in modern accounting devices, the preparation and analysis of balance sheets and profit and loss statements.

ENGINEERING**1 Elementary Engineering Drawing (3)**

Prerequisite: None

Note: This course may not be taken for credit by students who have completed Architecture 1.

Training in the manipulation of instruments, lettering, blue print reading, shop sketching, geometric construction, sectioning, dimensioning, and working drawings.

2 Advanced Engineering Drawing (3)

Prerequisite: Engineering 1 or mechanical drawing in high school.

Note: Engineering students should take Engineering 3 prior to Engineering 2.

Design and delineation of simple machine parts in the drafting rooms with special emphasis upon the production of drawings which conform to standard practice.

3 Descriptive Geometry (2)

Prerequisite: Engineering 1, Trade 31, or mechanical drawing in high school.

Note: This course may not be taken for credit by students who have completed Architecture 3.

A valuable engineering tool which facilitates graphical representation of lines, planes, surfaces, solids, interferences, and intersections. Excellent training in visualization.

8 Materials of Engineering Construction (2)

Prerequisites: Chemistry 2, Physics 2, and Mathematics 4.

A study of the structural properties, behavior, and adaptability of metals and various building materials.

10 Statics (3)

Prerequisites: Physics 1-2 and Mathematics 5-6. (Mathematics 6 may be taken concurrently.)

Force systems and equilibrium conditions as applied to engineering problems. The course includes graphical methods and the use of diagrams as an aid to algebraic solutions.

11-12 Plane Surveying (3-3)

Prerequisites for 11: Mathematics 2 or trigonometry in high school and Engineering 1 or mechanical drawing in high school.

Prerequisite for 12: Engineering 11.

A course in the fundamentals of surveying for all students of engineering. The measurement of distances by pacing, chaining, and the stadia; the use and adjustment Wye and Dumpy levels in differential leveling; the adjustment of the transit and its use in the measurement of angles in vertical and horizontal planes, in prolonging lines, and in the closed traverse. The computation and layout of horizontal and vertical curves; solar and Polaris observations for latitude and azimuth. Topographical mapping, by means of the stadia, using transit and plane table.

13 Field Work in Plane Surveying (3)

Prerequisite: Engineering 11

Practical field problems in location and topographic surveys. Precise work in linear and angular measurements. Development of self-reliance, accuracy and professional skill on the part of the student.

41 Engineering Computations (1)

Prerequisite: Mathematics 2 or trigonometry in high school.

Note: For Engineering and Science majors. This course may not be taken for credit by students who have completed Engineering 42.

Lectures and instruction in the use of the slide rule. Mannheim and log-log trigonometric slide rules will be explained and used in computation. Estimating, checking, and solving problems in computation will be required of the student.

42 Slide Rule (1)

Prerequisite: None

Note: For non-science majors. This course may not be taken for credit by students who have completed Engineering 41.

Lectures and instruction in the use of the slide rule. Estimating, checking, and solving problems in computation will be required of the student.

ENGLISH**1-2 Freshman English (3-3)**

Prerequisite for 1: A satisfactory grade in the English placement Test or a grade of "C" or better in English 41.

Prerequisite for 2: English 1.

A foundation course in writing and reading, strongly recommended for those students intending to transfer to a university. In English 1 training in exposition is given. In English 2 study and practice of exposition are continued, and some attention is given to description and narration. Class reading assignments and book reports are required throughout the course.

5-6 Survey of English Literature (3-3)

Prerequisite for 5: English 1-2

Prerequisite for 6: English 1-2

Note: Required of all English majors. Open to all who have completed English 1-2.

A survey course covering the entire field of English literature from the beginnings to the present time.

8 The Modern Drama (2)

Prerequisite: None

A study of modern plays and playwrights. Representative works of European and American dramatists are read with special attention given to the literary and sociological importance of the plays written in the last half century. The aim of the course is to enable the student to make an intelligent evaluation of contemporary drama. Readings, reports, special assignments, and class discussions.

10 Shakespeare (2)

Prerequisite: None

A comprehensive reading course including about fifteen of Shakespeare's plays. Lectures on the background of Elizabethan drama are given; class discussions follow the reading assigned. The course aims to provide a basic familiarity with the work of Shakespeare.

13 Introduction to World Literature (2)

Prerequisite: None

A study of some masterpieces of world literature to provide a background for future reading. This course emphasizes the development of literary movements in relation to history. Extensive reading, class discussion, and lectures.

14 Modern American Literature (2)

Prerequisite: None

A course designed to provide a wide reading experience in the significant American literature of the last fifty years. The important literary movements with their sociological implication are traced chronologically from the 1890's to the present day so that the student may have a background for critical judgment of contemporary American writing.

16 Modern Periodical Literature (2)

Prerequisite: None

A historical survey of the development of the magazine in the United States, followed by the reading of current magazine articles. Special attention is given to the various types of periodicals to aid the student in forming a well-rounded point of view. Reading, reports, discussion.

18 Independent Reading (2)

Prerequisite: None

A course in reading books which allows the student considerable choice in the books he reads. Special attention is given to the value of worth-while books, to aid the student in broadening his interest and increasing his understanding and enjoyment of literature. Readings, reports, discussions.

41 Remedial English (2)

Prerequisite: None

Note: This course should be elected by those who fail to make a satisfactory grade in mechanics in the English Placement Test.

A course to improve grammar, punctuation, sentence structure, and spelling.

42 Reading and Composition (2)

Prerequisite: None

A course to aid in developing the student's ability to understand what he reads and to express himself clearly in writing.

43 English for Foreign Students (2)

Prerequisite: Any student whose native tongue is not English may enter the course.

The class will be designed to help foreign students acquire skill in written and spoken English. Attention will be given to each student's special problems. Vocabulary (including idiomatic English), grammar, spelling, and pronunciation will be stressed.

Reading Improvement

See Psychology Y

FRENCH**1 Elementary French (4)**

Prerequisite: None

Note: This course may not be taken for credit by students who have completed two years of French in high school with grades of "C" or better within the past two years.

Training in pronunciation with stress on smoothness and proper intonation. Essentials of grammar, conversation, and composition. Reading of elementary prose with some stress placed on French character and customs.

2 Elementary French (4)

Prerequisite: French 1 with grade of "C" or better, or two years of French in high school with grades of "C" or better completed within the past two years.

Note: This course may not be taken for credit by students who have completed three years of French in high school with grades of "C" or better within the past two years.

Continuation of French 1. Stress on correct use of verbs in conversation and writing, and accuracy of grammatical detail. Elementary syntax completed. Reading of intermediate texts and the reproduction of simple French.

3 Intermediate French (4)

Prerequisite: French 2 with a grade of "C" or better, or three years of French in high school with grades of "C" or better completed within the past two years.

Note: This course may not be taken for credit by students who have completed four years of French in high school with grades of "C" or better within the past two years.

A thorough review of grammar, composition, translation, and reading. Oral and written resumes to develop fluency and accuracy in idiomatic usage.

4 Intermediate French (4)

Prerequisite: French 3 with a grade of "C" or better, or four years of French in high school with grades of "C" or better completed within the past two years.

Continuation of French 3. Reading of more difficult material representative of the best in French thought. Free written composition and conversation.

GEOGRAPHY

1-2 Elements of Geography (3-3)

Prerequisite for 1: None

Prerequisite for 2: Geography 1 or 5.

Note: Students who have completed Geography 5 will receive half credit for Geography 1.

A study of the basic physical and cultural elements of geography, their correlation and integrated patterns of world distribution. Special attention is given to climate, landforms, soils, natural vegetation, population distribution, general land use patterns, and trade.

5-6 Economic Geography (3-3)

Prerequisite for 5: None

Prerequisite for 6: Geography 1 or 5.

Note: Students who have completed Geography 1 will receive half credit for Geography 5. Students who have completed Geography 1 and 2 will receive no credit for Geography 5 and half credit for Geography 6.

A study of the physical and cultural elements of environment and their relation to the economic activities of representative occupations, commodities, and trade.

GEOLOGY

1-2 General Geology (3-3)

Prerequisite for 1: None

Prerequisite for 2: Geology 1

A general study of the earth, its minerals, rocks, structures, dynamic forces, and history. Geology 1 includes a study of the physical processes: erosion, vulcanism, earthquakes, etc. Geology 2 is concerned with the history of the earth throughout geologic time, the life types from the distant past, and the origin and location of economically important deposits. Three one-half day field trips are required in Geology 1, for which the student is charged a transportation fee.

GERMAN

1 Elementary German (4)

Prerequisite: None

Note: This course may not be taken for credit by students who have completed two years of German in high school with grades of "C" or better within the past two years.

Training in accurate pronunciation through daily drill. Elementary grammar and sentence structure. Reading and reproduction of simple prose.

2 Elementary German (4)

Prerequisite: German 1 with a grade of "C" or better, or two years of German in high school with grades of "C" or better completed within the past two years.

Note: This course may not be taken for credit by students who have completed three years of German in high school with grades of "C" or better within the past two years.

Continuation of German 1. Completion of elementary grammar essentials. Reading and interpretation of prose of increasing difficulty. Conversation, diction, composition. Some knowledge of German tradition and character in folklore. Essential geographical and historical data concerning German peoples.

3 Intermediate German (4)

Prerequisite: German 2 with a grade of "C" or better, or three years of German in high school with grades of "C" or better completed within the past two years.

Note: This course may not be taken for credit by students who have completed four years of German in high school with grades of "C" or better within the past two years.

A review of elementary grammar. A study of word analysis, sentence structure, idioms, and composition. Intensive reading of modern prose and drama, with rapid reading of simple stories, plays, or science material.

4 Intermediate German (4)

Prerequisite: German 3 with a grade of "C" or better, or four years of German in high school with grades of "C" or better completed within the past two years.

Continuation of German 3. Reading and interpretation of more difficult prose. Increasing stress on conversation and free composition.

HEALTH AND PHYSICAL EDUCATION FOR MEN

Each student is required to enroll, to attend regularly, and to maintain a satisfactory record in physical education for each semester in Glendale College, except that a person may be exempted upon presentation of evidence that he (1) has attained the age of 25 years, (2) or is registered for 7 units or less, (3) or has a medical excuse on file (in this case the Physical Education Department may develop a program of modified activity), or (4) is a junior college graduate.

1 Health Education (2)

Prerequisite: None

Note: Required of all students for graduation.

A consideration of health and its effect upon the quality of human life, the effect of exercise and fatigue, prevention of specific diseases, the significance of nutrition in health and disease, and the hygiene of the different body systems.

4 Public Health and Sanitation (2)

Prerequisite: None

A general survey of the field of public health in the United States, including a consideration of the causes and prevention of disease and disability; the conservation of infant and child life; the home, school, and industrial environment; the communicable and non-communicable diseases; mental hygiene; and present problems of public health.

10 Safety Education and First Aid—Coeducational (2)

Prerequisite: None

Prevention and care of accidents and emergencies in the home and school. American Red Cross standard First-Aid Certificate granted upon satisfactory completion of the course.

19 Recreational Leadership—Men (2)

Prerequisite: None

Note: Recommended for P.E. majors and students entering the Recreation Field.

A basic training course for Playground Directors and Recreation Leaders. A study in the organization and administration of community and school recreation programs. Emphasis is placed on training in Leadership Techniques and on the Development of Programs in Recreation, Sports and Athletics.

21A Physical Education Activities (½)

Prerequisite: None

Instruction in the fundamentals of individual activities. Free and competitive participation in seasonal sports.

22B Intermediate Baseball (½)

Prerequisite: None

Note: Designed for those who wish to compete on varsity teams.

Instruction in rules and game strategy. Practice in fundamental techniques of throwing, fielding, batting, and team play. Fall semester only.

22C Advanced Baseball (Varsity and Junior Varsity) (1)

Prerequisite: Some previous playing experience in baseball.

Note: Limited to students trying out for the varsity teams.

Development of team play for competitive participation. Spring semester only. Daily.

23C Advanced Basketball (Varsity and Junior Varsity) (1)

Prerequisite: Some experience on an organized team.

Note: Limited to students trying out for the varsity teams.

Development of team play for competitive participation. Fall semester. Daily.

26B Intermediate Football (½)

Prerequisite: None

Note: Recommended for P.E. majors and those interested in varsity competition.

Instruction in football rules; instruction and practice in techniques of individual offense and defense. Spring semester only.

26C Advanced Football (Varsity and Junior Varsity) (1)

Prerequisite: Previous experience on an organized team.

Note: Limited to students trying out for the varsity team.

Development of team play for competitive participation. Daily.

27A Beginning Tennis (1/2)

Prerequisite: None

Instruction and practice in the basic strokes; fundamental techniques and rules of the game.

27B Intermediate Tennis (1/2)

Prerequisite: Some previous playing experience in tennis.

Note: Recommended for P.E. majors.

Instruction and practice in individual fundamentals, development of team play and court strategy.

27C Advanced Tennis (Varsity) (1)

Prerequisite: Some previous playing experience in tennis.

Note: Limited to students trying out for the varsity team.

Development of team play for competitive participation. Daily.

28A Beginning Golf (1/2)

Prerequisite: None

Instruction and practice in the fundamentals of golf. Development of various golf shots. Golf rules and etiquette. Co-educational.

28B Intermediate Golf (1/2)

Prerequisite: Some previous playing experience in golf.

Advanced instruction and practice in the various golf shots. Participation in tournaments. Co-educational.

28C Advanced Golf (Varsity) (1)

Prerequisite: Some previous playing experience in golf.

Note: Limited to students trying out for varsity team.

Development of play for competitive participation. Spring semester only. Daily. Arrangement must be made for regular practice on a golf course.

31C Advanced Swimming (1)

Prerequisite: Some previous swimming experience.

Note: Limited to students trying out for the varsity team.

Instruction and practice in fundamental techniques for competitive participation. Daily.

32C Water Polo (1)

Prerequisite: Some previous swimming experience.

Note: Limited to students trying out for the varsity team.

Instruction and practice in fundamental techniques of water polo. Development of team play for competitive participation. Fall semester only. Daily.

3A Beginning Archery (1/2)

Prerequisite: None

Instruction and practice in the fundamental techniques of shooting with the bow and arrow. Target shooting and field archery shooting.

33B Intermediate Archery (1/2)

Prerequisite: Some previous experience in archery.

Development of competitive shooting; participation in tournament shoots. Emphasis is placed on the development of instinctive shooting for use in roving and hunting.

35C Advanced Track and Field (Varsity) (1)

Prerequisite: None

Note: Limited to students trying out for the varsity team.

Designed for competitive participation. Daily.

36C Cross Country Running (1)

Prerequisite: None

Note: Recommended for distance runners and track men wishing to condition themselves for track.

Designed for competitive participation. Fall semester. Daily.

37A Beginning Volleyball (1/2)

Prerequisite: None

Instruction in the rules, and practice in the fundamental techniques of volleyball.

37B Intermediate Volleyball (1/2)

Prerequisite: Some previous playing experience in volleyball.

Note: Recommended for P.E. majors.

Development of team play and competitive participation.

60 Adapted Activities (1/2)

Prerequisite: None

A modified program of activities designed to meet the needs of special students.

71A Cowboy Dancing—Coeducational (½)*Prerequisite:* None*Note:* Recommended for P.E. majors.

Instruction and participation for recreational groups in American cowboy, square, and circle dances.

73A Beginning Social Dancing—Coeducational (½)*Prerequisite:* None

Instruction and practice in the fundamental steps of the foxtrot, waltz, rumba, and other popular dances.

HEALTH AND PHYSICAL EDUCATION FOR WOMEN

Each student is required to enroll, to attend regularly, and to maintain a satisfactory record in physical education for each semester in Glendale College, except that a person may be exempted upon presentation of evidence that he (1) has attained the age of 25 years, (2) or is registered for 7 units or less, (3) or has a medical excuse on file (in this case the Physical Education Department may develop a program of modified activity), or (4) is a junior college graduate.

1 Health Education (2)*Prerequisite:* None*Note:* Required of all students for graduation.

A consideration of health and its effect upon the quality of human life, the effect of exercise and fatigue, prevention of specific diseases, the significance of nutrition in health and disease, and the hygiene of the different body systems.

4 Public Health and Sanitation (2)*Prerequisite:* None

A general survey of the field of public health in the United States, including a consideration of the causes and prevention of disease and disability; the conservation of infant and child life; the home, school, and industrial environment; the communicable and non-communicable diseases; mental hygiene; and present problems of public health.

10 Safety Education and First Aid—Coeducational (2)*Prerequisite:* None

Prevention and care of accidents and emergencies in the home and school. American Red Cross standard First-Aid Certificate granted upon satisfactory completion of the course.

20 Camp and Community Leadership (3)*Prerequisite:* None

A study of the principal factors necessary for leadership in community service of such types as playground directing, committee work, camp counseling, and church work. Emphasis is placed upon the principles governing the choice, techniques, rules, and organization of activities.

Each student acting as the leader will plan and administer a recreation activity for a group in the community.

21A Beginning Sports (1/2)*Prerequisite:* None

Instruction in the fundamental techniques of seasonal sports: basketball, volleyball, hockey, and baseball.

21B Intermediate Sports (1/2)*Prerequisite:* H. & P.E. 21A or credit in high school.

Development of team play in seasonal sports: basketball, volleyball, hockey, and baseball.

27A Beginning Tennis (1/2)*Prerequisite:* None

Instruction and practice in tennis strokes, techniques, and rules.

27B Intermediate Tennis (1/2)*Prerequisite:* H. & P.E. 27A or credit in high school.

Instruction and practice in tennis strokes, techniques, umpiring, and doubles and singles tactics.

50A Beginning Folk Dancing (1/2)*Prerequisite:* None

Instruction in folk dances of all nations with discussion of festival costumes.

55 Body Mechanics (1/2)*Prerequisite:* None

Conditioning exercises to increase body flexibility and strength of musculature in various parts of the body; to develop skilled body control with respect to agility, balance, and coordination; and to produce skills in relaxation.

60 Adapted Activities (1/2)*Prerequisite:* None

A class for the student whose medical examination indicates that she should take restricted activities. Rest, sunbaths, or limited activities as need is indicated on the health record.

71A Cowboy Dancing—Coeducational (1/2)*Prerequisite:* None

Instruction and participation for recreational groups in American cowboy, square, and circle dances.

72A Beginning Archery—Coeducational (1/2)*Prerequisite:* None

Instruction in the technique of archery and participation in a tournament using the Junior Columbia Round.

72B Intermediate Archery—Coeducational (½)

Prerequisite: H. & P.E. 72A or credit in high school.

Practice in target and tournament shooting using the Columbia Round.

73A, Beginning Social Dancing—Coeducational (½)

Prerequisite: None

Instruction and practice in the fundamental steps of the foxtrot, waltz, rumba, and other popular dances.

75A Beginning Golf—Coeducational (½)

Prerequisite: None

Instruction and practice in golf strokes, techniques and rules .

77A Volleyball—Coeducational (½)

Prerequisite: None

Instruction and practice in volleyball techniques with team tournaments.

HISTORY

1-2 History of Western Europe (3-3)

Prerequisite for 1: None

Prerequisite for 2: History 1

The growth of western European civilization from the decline of the Roman Empire to the present time. An introduction to the study of history, giving a general perspective of the development of those political, economic, and social institutions which explain our present-day civilization. An attempt is made to orient the student's thinking on present world problems.

3-4 History of the Americas (3-3)

Prerequisite for 3: None

Prerequisite for 4: History 3

Note: History 4 allows only one unit of credit for students who have completed History 5 or 21. Students who have completed History 3 and History 5 should enroll in History 21.

A general survey of the history of the Western Hemisphere from the discovery to the present time. The planting of the European civilization in the Western Hemisphere, the growth of the colonies of the different nations, colonial systems, the international contest for the continents, the wars of independence in English-America and Hispanic-America, the development of independent American republics, their relations with each other and with the rest of the world. This course (if both semesters are completed) meets the California State requirement in American History.

5 United States History (2)

Prerequisite: None

Note: It is recommended that this course be completed prior to enrollment in a course to meet the California State requirement in the American Constitution. This course allows only one unit of credit for students who have completed History 17 or Social Science 31, and no credit for those who have completed Social Science 31-32, or History 4, or History 17-18.

A brief study of the political, economic, and social history of the United States since 1763. Emphasis is placed upon the development of American ideals and policies. This course meets the California State requirement in American History.

7-8 History of Civilization (3-3)

Prerequisite for 7: None

Prerequisite for 8: History 7

A general survey of the development of human ideas, arts, and institutions from the earliest times to the present. Emphasis is placed upon the contributions to civilizations made in ancient times by Egypt, Greece, Rome, India, and China. The modern world is analyzed by a study of the principal factors—cultural, social, economic, and political—which brought it into being. An attempt is made to give the student a perspective on the past and a basis for interpreting current world events.

12 Pacific Coast History (2)

Prerequisite: None

A survey of the discovery, exploration, and settlement of Mexico, California, Oregon, Washington, British Columbia, and Alaska. Emphasis is placed upon the development of their particular political, economic, and cultural institutions, along with their relationships with each other and the rest of the world.

17-18 History of the United States (3-3)

Prerequisite for 17: Sophomore standing

Prerequisite for 18: History 17

Note: History 17 allows only 2 units for students who have completed History 5. History 17-18 allows only four units of credits for students who have completed History 5 or Social Science 31-32.

A history of American civilization. European backgrounds, the English colonies, the Revolutionary War, the Constitution, and the political, social, and economic history of the United States. This course (if both semesters are completed) meets the California State requirements in American History and the American Constitution.

21 Modern Latin America (2)

Prerequisite: None

Note: This course may not be taken for credit by students who have completed History 3-4.

A survey of contemporary Mexico and South America. Particular attention is focused on the Latin American Spanish heritage, political, economic, and cultural developments. Careful consideration is given to the relations between these areas and the United States. This course is designed for students interested in Latin America and problems arising from the penetration of Western civilization.

33 The Modern Far East (2)

Prerequisite: None

A survey of contemporary Mexico and South America. Particular focused on the development of republicanism, imperialism, nationalism, and communism in the Far East. Careful consideration is given to the relations between these areas and the United States and Russia. This course is designed for students interested in the Far East and problems from the penetration of Western civilization.

Economic History of the United States

See Economics 11

Introduction to Social Science

See Social Science 31-32

HOME ARTS

Men as well as women are eligible for enrollment in all Home Arts courses for which they have fulfilled prerequisites.

3A-B-C-D Handicrafts (1-1-1-1)

Prerequisite: None

Note: Courses are to be taken in sequence.

A course offered primarily for adults who wish to learn one or more crafts or to refresh themselves in some already learned. The class meets one day each week. The content of this course is essentially the same as that of Home Arts 3-4.

3-4 Handicrafts (2-2)

Prerequisite for 3: None

Prerequisite for 4: Home Arts 3

Construction of costume and household accessories by the application of art principles to some of the following crafts: handweaving, leather craft, wood carving, block printing, stenciling, wool embroidery, book binding, knotting and braiding. A useful course for leaders in Girl Scout and Camp Fire organizations and for those interested in occupational therapy.

11-12 Clothing (3-3)

Prerequisite for 11: None

Prerequisite for 12: None

Construction of garments including sports clothes, afternoon and evening wearing apparel, and suits and coats. A study of clothing selection through the application of principles of design and color. One hour of lecture and five laboratory periods each week.

15-16 Millinery

Prerequisite for 15: None

Prerequisite for 16: None

Blocking and making straws and felts to current styles and fashion trends. The making of fabric hats as accessory to costume; millinery design, trim, and construction.

17-18 Apparel Design (6-6)

Prerequisite for 17: Home Arts 11 or 12, or one year of clothing in high school.

Prerequisite for 18: Same as for 17.

Vocational training to prepare the individual to enter the apparel industry. The development of the block pattern and its application to all type patterns. Designing and construction of blouses, skirts, dresses, formals, children's clothing, and crotch items as used in California play clothes industries. Five three-hour periods each week.

19-20 Advanced Apparel Design (6-6)

Prerequisite for 19: Home Arts 17

Prerequisite for 20: Home Arts 17

Advanced vocational training. The designing and construction of suits, coats, slacks, and the art of draping. Employment of the hard and soft tailoring as applied to production of women's and children's garments. Five three-hour periods each week.

21-22 Elementary Food Study (3-3)

Prerequisite for 21: Chemistry in high school or one semester of college chemistry, which may be taken concurrently.

Prerequisite for 22: Same as for 21.

A comparative study of the fundamental processes of cookery in relation to the problem of family meals, with emphasis on food values and cost. One hour of lecture and five one-hour laboratory periods each week.

23-24 Costume Construction (2-2)

Prerequisite for 23: Home Arts 17. (H. A. 17 may be taken concurrently).

Prerequisite for 24: Same as for Home Arts 23.

Designing and construction of group costumes for stage, ensembles, etc. This course includes planning for and the buying of suitable materials, the design of color schemes, the design and construction of costumes and accessories, maintenance of the costume wardrobe. Two hours in class and four hours of research or construction assignments each week.

25 Elements of Nutrition (2)*Prerequisite:* None

A study of foods in relation to body needs. Emphasis is placed upon diet for optimum health. Meals are planned for the individual and the family group, with consideration of costs and modern trends.

29 Home Furnishings (2)*Prerequisite:* None

A study of the arrangement of movable furnishings and of structural and fixed backgrounds. Emphasis is placed on the selection of floor coverings, draperies, curtains, furniture, and accessories. Recognition of low income buying.

31 Marriage and Family Living (3)*Prerequisite:* None

Basic information for making a successful marriage. Courtship, learning to live together as husband and wife, children, financial and legal problems, conflicts and their resolution, relatives, family and community relations are studied. Lectures, discussions, conference with experts, reading, and reports.

33 Personal Development (3)*Prerequisite:* None

Development of social competence, discriminating dress, poise and personality attributes. Emphasis on personal analysis. Lectures, consultations with experts, field trips, and class discussions.

35 Pre-School Child (3)*Prerequisite:* None

The growth, development, and guidance of the child from birth through age five. Developmental values of play, significance of creative activities, interpretation of child-adult relationships, standards for wholesome routines, techniques of management and discipline. Nursery school used as laboratory for course.

Probably not given 1951-52.

37 Textiles and Non-Textiles (2)*Prerequisite:* None

A study of materials used in clothing and household equipment. This course includes tests and analysis of shrinkage, color fastness, heat retention, reaction to cleansing agents and other practical information. It provides the basis of good judgment in buying. Materials studied include wool, silk, linen, cotton, and synthetics in the textile field; leather, fur, metal, wood; porcelain, and glass among the non-textiles.

39 Home Management (3)*Prerequisite:* None

A study of the problems of modern home living, including gracious living, care of the house, its upkeep, intelligent buying, and the accounting of expenses, modern equipment, and minimum essentials in establishing a home. Lectures by experts in the various fields.

41-42 Foods: Their Selection, Preparation, and Service (3)

Prerequisite for 41: None

Prerequisite for 42: None

A comparative study of the fundamental processes of cookery in relation to the problem of family meals, with the necessary study of cost. One hour of lecture and five laboratory periods each week.

43 The Modern Hostess (1)

Prerequisite: None

Fundamentals of social planning. What to serve and how to serve it. Food garnishes, tea dainties, planning for guests on various occasions, table arrangements and invitations. Laboratory and lecture. Particularly adapted to adults.

45-46 Fundamental Cosmetology (6-6)

Prerequisite for H.A. 45: None.

Prerequisite for H.A. 46: H.A. 45.

Note: H.A. 45-46 not open for credit to students who have 1 year of cosmetology in high school.

First year of preparation for examination for license, given by the State Board of Cosmetology. Covers the basic training in fundamental work in cosmetology and includes practical laboratory work and lectures. A minimum of thirteen hours per week.

47-48 Advanced Cosmetology (10-10)

Prerequisite for H.A. 47: H.A. 46 or one year of Cosmetology in high school.

Prerequisite for H.A. 48: H.A. 47 or more than one year of Cosmetology in high school.

Second year of preparation for examination for license, given by the State Board of Cosmetology, which completes the required units in care of the hair the scalp; hair tinting and bleaching; iron curling; hair styling; hair cutting and shaping; permanent waving; care of hands and arms; facials and makeup; sterilization and sanitation; shop management and business. Laboratory and lecture; a minimum of twenty-one hours a week.

49 Home Care of the Sick (1)

Prerequisite: None

A course for both men and women, designed to provide information and practice of skills for care of the sick at home, including how to recognize symptoms of illness, carry out the doctor's orders, give simple treatments, make the patient comfortable, and prevent the spread of communicable disease.

JOURNALISM

1-2 News Writing and Reporting (3-3)

Prerequisite for 1: A satisfactory grade in the English Placement Test or a grade of "C" in English 41.

Prerequisite for 2: Journalism 1

A study of the newspaper and its function in society. A study of news and the methods by which it is obtained.

3-4 Newspaper Copy Editing and Make-up (3-3)

Prerequisite for 3: None. Journalism 1 and 2, or publication experience is suggested.

Prerequisite for 4: Journalism 1, 2 or 3.

A study of copy reading, headwriting, and special projects in feature writing, editorial writing, and sports writing. Practical work in newspaper lay out and make-up. This is the staff class of the campus newspaper, El Vaquero.

5-6 Magazine Trade Publication Writing and Editing (3-3)

Prerequisite for 5: None

Prerequisite for 6: None

A study of types of periodicals, their functions, and the methods used in their manufacture. Practice is given in writing copy, editing, and the make-up of the various publications. Members of the class assist in the publication of the campus yearbook, La Reata.

LAW

17-18 Commercial Law (3-3)

Prerequisite for 17: None

Prerequisite for 18: Law 17

A practical course in the principles of law that affect business relations including contracts, sales, agency, insurance, negotiable instruments, partnerships, corporations, suretyship, real property, and wills. Lectures and discussions are based on the laws in force in most states, with particular emphasis on those of California. Actual cases are assigned for the purpose of understanding legal principles and terms.

21 Negotiable Instruments (2)

Prerequisite: None

A practical course in the use of notes, bills of exchange, checks and other types of negotiable instruments in banking, finance, collections, and elsewhere in business. The topics covered include requirements of negotiability, negotiation, holders and holders in due course, rights and liabilities of parties, primary and secondary liability, discharge, checks, and banks and banking.

Will not be offered in 1951-1952.

23 Law of Insurance (2)

Prerequisite: None

Preparation for the state examination required for licensed insurance salesmen or brokers. The Insurance Code of California is emphasized including the main principles of insurance and insurance law, together with the legal aspects of different types of policies.

Will not be offered in 1951-1952.

25 Real Estate and Property Law (2)

Prerequisite: None

The legal background necessary for those planning to take the state examination required for licensed real estate salesmen or brokers. The course includes the principles of ownership and management applied to conveyancing, deeds, trust deeds, mortgages, leases, brokerage, mechanics' liens, homesteads, wills, and estates.

Will not be offered in 1951-1952.

31 Law for the Layman (3)

Prerequisite: None

A survey of legal problems which confront people in their everyday life activities. Included is a study of courts, trials, marriage and divorce, community property, wills, trusts, succession, mortgages, trust deeds, conditional sales, crimes, torts, homesteads, the corporate securities act, the workmen's compensation act, and many other principles of business law.

MATHEMATICS**1 Intermediate Algebra (3)**

Prerequisite: Mathematics 41 and 40, or one year of algebra and one year of plane geometry in high school. Mathematics 40 may be taken concurrently.

Note: This course may not be taken for credit by students who have completed two years of algebra in high school. Only two units of credit are allowed to students who have one and one-half entrance credits in algebra.

Fundamental laws: curve plotting, linear equations, negative and fractional indices, quadratic equations, arithmetic and geometric progressions, the binomial theorem, the factor theorem, the remainder theorem, synthetic division, and Logarithms.

2 Trigonometry (3)

Prerequisite: Mathematics 1 or one and one-half years of algebra and one year of plane geometry in high school.

Note: This course allows only two units of credit to students who have completed trigonometry in high school.

An elementary course in plane trigonometry and spherical right triangles with practical applications. Trigonometric functions, the right triangle, functions of multiple angles, trigonometric equations and identities, radians, inverse functions, the oblique triangle, logarithms, calculations, and trigonometric analysis.

3 Plane Analytical Geometry (3)

Prerequisite: Mathematics 2 or 8, or two years of algebra, one year of plane geometry, and trigonometry in high school.

A study of the equations representing the straight line, circle, ellipse, and other conic sections as the locus of equations of first and second degree in rectangular coordinates; the method of writing equations for tangents and normals to circles and conic sections; polar coordinates and transformation of coordinates.

4 Differential Calculus (3)

Prerequisites: Mathematics 3

The study of functions, algebraic and transcendental, and their classification. The derivative defined; its practical use in obtaining velocities and acceleration values in non-uniform straight line and curved line motion and in obtaining maximum and minimum values useful in design. The differential and infinitesimal and its use in forming derivatives. The use of the first and second derivatives in rapid curve tracing.

5 Integral Calculus and Solid Analytical Geometry (3)

Prerequisite: Mathematics 4

A study of integration in the indefinite and definite integral. Applications of the definite integral in the determination of areas, volumes, centroids, and moments of inertia. The study of surfaces in the geometry of space.

6 Integral Calculus, Solid Analytical Geometry, and Infinite Series (3)

Prerequisite: Mathematics 5

The study of surfaces in the geometry of space; partial differentials, multiple integrals, and infinite series.

7 Solid Analytical Geometry (2)

Prerequisite: Mathematics 3

A course designed for students who plan to take advanced work in Mathematics, Physics, Chemistry, or Engineering. It offers additional training in the study of lines, planes, surfaces; and of miscellaneous solids. Hyperbolic functions and different coordinate systems are included.

8 College Algebra (3)

Prerequisite: Mathematics 2 or one and one-half years of algebra, one year of plane geometry, and trigonometry in high school.

A review of fundamental processes of algebra and advanced work in progressions, determinants, theory of equations, partial fractions, permutations and combinations, and probability.

9 Mathematics of Finance (3)

Prerequisite: Mathematics 1 or two years of algebra in high school.

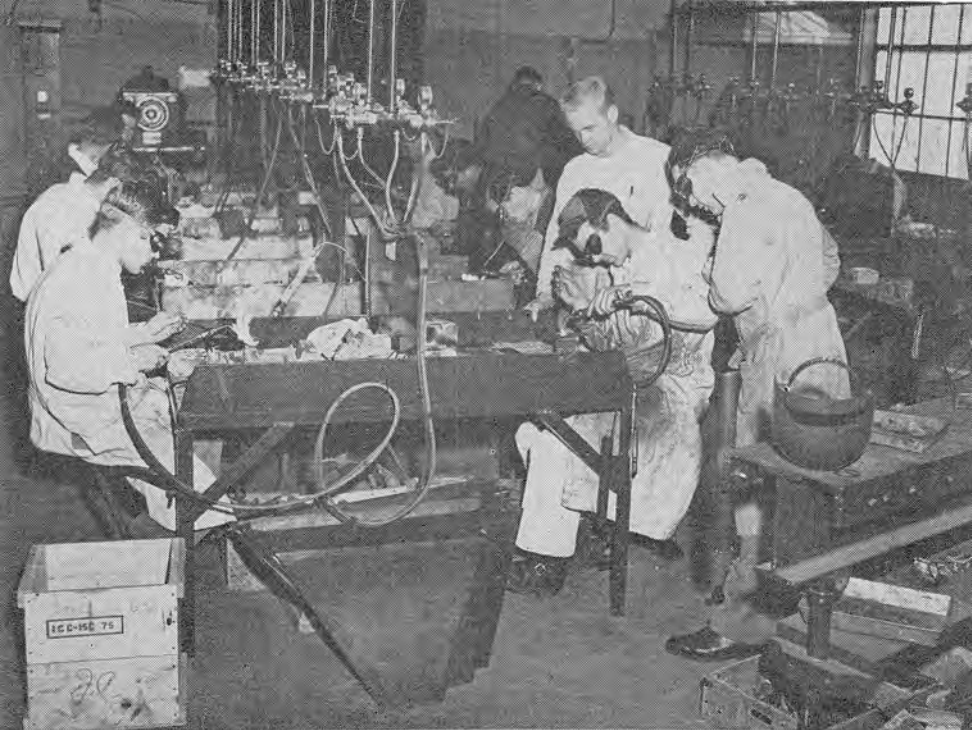
Note: Recommended for Commerce and Business Administration majors.

A study of interest, discount, annuities, amortization, sinking funds, valuation of bonds, depreciation, and life insurance.



SCENE FROM BRIGADOON BAND





WELDING CLASS DRAFTING INSTRUCTION



10 Differential Equations (2)

Prerequisite: Mathematics 5

A study of ordinary and partial differential equations, with applications to problems in geometry, physics, and chemistry.

40 Plane Geometry (3)

Prerequisite: Mathematics 41 or one year of algebra in high school.

Note: This course may not be taken for credit by students who have completed plane geometry in high school, or it may be taken for 1½ units if one semester completed in high school. A student will remove both subject and grade deficiencies if he receives a grade of "B" or better in Mathematics 40; if he receives a grade of "C," he will remove only the subject deficiency.

A comprehensive course in plane geometry. Parallel lines, proportion, congruent and similar triangles, the right and oblique triangles, the theorem of circles, and polygons.

41 Fundamentals of Algebra (3)

Prerequisite: None

Note: This course may not be taken for credit by students who have completed one year of algebra in high school, or it may be taken for 1½ units if one semester completed in high school. A student will remove both subject and grade deficiencies if he receives a grade of "B" or better in Mathematics 41; if he receives a grade of "C," he will remove only the subject deficiency.

A course in the fundamental operations of algebra. This course is the equivalent of one year of algebra in high school.

MINERALOGY

1 Elemental Mineralogy (4)

Prerequisite: Chemistry 1, 11 or 41; or chemistry in high school. Chemistry 1 may be taken concurrently.

Note: Unless taken previously, it is recommended that Geology 1 be taken concurrently.

Lectures and laboratory work on the physical properties of minerals, their occurrence and crystal morphology. Practice in determination of minerals by physical properties and simple chemical tests. Two lectures and two three-hour laboratory periods each week.

MUSIC

1-2 Solfeggio (3-3)

Prerequisite for 1: None

Prerequisite for 2: Music 1.

Basic course for all students of both instrumental and vocal music. Extensive drill in sight reading, ear training, and melodic diction.

3-4 History and Appreciation of Music (3-3)

Prerequisite for 3: None

Prerequisite for 4: Music 3

A study of the development of form and style in music through lectures, illustrations, and readings with regard to the structure and æsthetics of musical compositions. The historical development of music is shown through a study of the works of composers from the earliest time to the present day. The course also assists the student in a better understanding of music literature.

5-6 Harmony (5-5)

Prerequisite for 5: Music 1 (Music 1 may be taken concurrently.)

Prerequisite for 6: Music 1 and Music 5 or one year of harmony in high school.

Note: Music 5 allows only two units of credit for students who have completed one year of harmony in high school.

Study of materials used in music, both diatonic and chromatic. Chord relationships and progressions. Harmonization of melodies by section and phrase with use of embellishing tones. Common tone and common tone modulation. Altered chords and modulations. Use of augmented sixth chords. The aim of this course is to give command of music materials and to enable the student to write music in simplest forms, to harmonize melody, and to hear progressions rapidly.

7-8 Counterpoint (2-2)

Prerequisite for 7: Music 5 or one year of harmony in high school.

Prerequisite for 8: Music 7

Fundamental principles of good melody. Strict counterpart in all orders: two, three, and four voices. Free or modern counterpoint; note to note; second order; two or more notes to one, admitting unharmonized dissonances as changing notes, passing notes, retardations, or suspensions.

11-12-13-14 Men's Chorus (1-1-1-1)

Prerequisite: None

Note: Courses are to be taken in sequence.

Appreciation and performance of standard choral literature with special emphasis on principles of part singing, vocal control, interpretation, diction, phrasing, and breath control. Public performances.

11-12-13-14 Women's Chorus (1-1-1-1)

Prerequisite: None

Note: Courses are to be taken in sequence.

Appreciation and performance of standard choral literature with special emphasis on principles of part singing, vocal control, interpretation, diction, phrasing, and breath control. Public performances.

15-16-17-18 A Cappella Choir (1-1-1-1)

Prerequisite: Music 11 or one semester of choral experience in high school.

Note: Courses are to be taken in sequence.

An advanced form of choral art. Repertoire drawn from all ages and cultures. Emphasis on interpretation, choral techniques, and public performances.

21-22 Voice Training (2-2-)

Prerequisite for 21: A sufficiently accurate ear to sing in tune.

Prerequisite for 22: Music 21

The principles of correct tone production and their application to the simpler songs and ballads, in English. The course is planned to develop individual talents. Poise, diction, style, tone-color, and interpretation are stressed.

23 Instrumental Training (Wind Instruments) (1)

Prerequisite: None

Elementary instruction on the various woodwind and brass instruments for Music majors or students with a musical background who wish to perform in Glendale College organizations.

24 Instrumental Training (Strings) (1)

Prerequisite: None

Elementary instruction on the various stringed instruments for Music majors or students with a musical background who wish to perform in Glendale College organizations.

Probably not to be given 1st semester 1951-52

25-26 Conducting (2-2)

Prerequisite for 25: Music 1-2 or 5 and membership in one of the performing musical organizations at Glendale College.

Prerequisite for 26: Music 25

A practical study of conducting choral, instrumental, and church and community singing groups. Criteria of performance, tempo, dynamics, timbre, phrasing, score reading, terminology, instrumentation, program building, rehearsal techniques, and voice production in ensemble are studied. Opportunity for conducting by students is given.

31-32-33-34 Orchestra (1-1-1-1)

Prerequisite: Ability to perform on a standard orchestral instrument.

Note: Courses are to be taken in sequence.

Standard symphonic literature is studied. The orchestra performs at Glendale College and community festivals and programs.

35-36-37-38 Popular Orchestra (1-1-1)

Prerequisite: Concurrent enrollment in either Glendale College Band or Orchestra.

Note: Courses are to be taken in sequence. Membership is limited to 15.

Workshop through which students may prepare to enter the field of commercial music. Emphasis on sight reading. Practical experience at Glendale College functions.

41-42-43-44 Band (1-1-1)

Prerequisite: Ability to perform on a standard band instrument.

Note: Courses are to be taken in sequence.

The literature of modern bands is studied. This organization functions at all Glendale College athletic events.

45-46-47-48 Treble Clef (1-1-1)

Prerequisite: Membership in A Cappella Choir or Women's Chorus, a good voice, and evidence of good musicianship.

Note: Courses are to be taken in sequence.

A small ensemble group of women which studies vocal music suitable for public presentation, with emphasis on blending and balance.

49-50-51-52 Concert Choir (1-1-1)

Prerequisite: At least two years of A Cappella Choir experience (or equivalent) in high school and/or college. Ability to sight-read at least simple vocal parts; a basic knowledge of techniques of choral work.

Note: Courses are to be taken in sequence. Membership is limited to 25. A group of highly selected voices which performs representative works of the sixteenth and seventeenth century madrigal writers; of Bach, Brahms, and other foremost composers; and of the modern repertoire.

53-54-55-56 Male Quartet (1-1-1)

Prerequisite: Evidence of a good voice and membership in A Cappella Choir or Men's Chorus.

Note: Courses are to be taken in sequence.

A special male group which studies material suitable for radio and public performances. Special emphasis on interpretation, tone, shading, and balance.

57-58-59-60 Brass Ensemble (1-1-1)

Prerequisite: Concurrent enrollment in either Glendale College Band or Orchestra.

Note: Courses are to be taken in sequence.

A small instrumental group which plays for radio and other public performances. Emphasis on balance, dynamics, phrasing, and interpretation.

61-62-63-64 Woodwind Ensemble (1-1-1)

Prerequisite: Concurrent enrollment in either Glendale College Band or Orchestra.

Note: Courses are to be taken in sequence.

A small instrumental group which plays for radio or other public performances. Emphasis on balance, dynamics, phrasing, and interpretation.

65-66-67-68 String Ensemble (1-1-1)

Prerequisite: Concurrent enrollment in either Glendale College Band or Orchestra.

Note: Courses are to be taken in sequence.

A small instrumental group which plays for radio and other public performances. Emphasis on balance, dynamics, phrasing, and interpretation.

69-70 Elementary Piano (2-2)

Prerequisite for 69: None

Prerequisite for 70: Music 69

Note: This course is not open to students having previous instruction in piano playing.

This course is designed for students who wish to gain elementary knowledge of the piano keyboard and the rudiments of music reading. Music studied will be of moderate difficulty. Students will be required to have a piano available for practice and to learn to play correctly examples of all fundamental touches of piano keyboard technique.

71 Intermediate Piano (2)

Prerequisite: Music 70 or ability to play correctly examples of fundamental piano keyboard technique and to read at sight, simple 4 part songs and hymns.

The theory and interpretation of literature for the piano; development of style, tone color, dynamics and phrasing, with emphasis on fundamentals of piano accompaniment. Students will be required to have a piano available for practice.

73 Beginning Organ (2)

Prerequisite: Music 71 or ability to play with ease piano literature of more than moderate difficulty.

A course designed to acquaint the student with fundamentals of organ technique. Emphasis on pedal facility and the principles of artistic registration. A survey of organ literature of moderate difficulty and the development of a suitable repertoire for sacred and secular use.

75-76-77-78 Accompanist Training (See Note)

Prerequisite: Ability to sight read and play with ease piano literature of more than moderate difficulty.

Note: The student may take Accompanist Training for 1 or 2 units each semester. A proportionate amount of work will be required according to the number of units elected by the student and signed for at the time of registration.

A course designed to give training in the piano accompaniment of choral or instrumental groups, or solo performances. Opportunity will be given the student to accompany performing musical organizations of Glendale College.

81-82 Light Opera Workshop (1-1) (10 Weeks)

Prerequisite: Evidence of a good voice or membership in a performing group of Glendale College for leads and chorus; other groups must show some evidence of ability.

The course is designed for the study and production of a light opera. Each student will be assigned work according to his talents and interests, and will be coached by the staff of the department.

PALEONTOLOGY**1 Elementary Paleontology (3)**

Prerequisite: None

A history of life on the earth with particular reference to the principles of and evidences for organic evolution. An appraisal of the physical environment or organisms and animal adaptations thereto. The development of life from the simplest forms to the most complex by a study of fossils from all ages. A brief survey of human development.

PHILOSOPHY**1 Introduction to Philosophy (3)**

Prerequisite: Sophomore standing preferred

Ethics. An introduction to thinking about the fundamental ideas and ideals that play an indispensable part in the life and activities of persons in each cultural area and epoch. Problems of right and wrong, good and bad, true and false with historical and contemporary solutions.

2 Introduction to Philosophy (3)

Prerequisite: Philosophy 1

Metaphysics, epistemology, historical and political philosophical problems. A consideration of the problems of knowing, of reality, of the beautiful, of justice, and of the making of judgments in historical and political situations.

PHOTOGRAPHY

1-2 Elements of Photography (2-2)

Prerequisite for 1: None

Prerequisite for 2: Photography 1

Note: Photography 2 allows one unit of credit for three hours of laboratory a week, two units for six hours a week.

Photography 1 is lecture and illustrations, and Photography 3 (laboratory) should be taken concurrently. Photography 2 is lecture and laboratory, and Photography 4 should be taken concurrently.

Making exposure, developing negatives, making prints and enlargements. By the end of the course, students are expected to be able to make well finished pictures under ordinary circumstances.

3-4 Intermediate Photography (3-3)

Prerequisite for 3: Photography 1 (which may be taken concurrently).

Prerequisite for 4: Photography 2 (which may be taken concurrently).

Note: Photography 3 and 4 allow from one to three units of credit, each three hours of laboratory work a week carrying one unit of credit.

A laboratory course designed for students who preferably have had some experience in photography. Those who show suitable skill will be given opportunities in connection with Glendale College drama productions, publications, and sports to take pictures such as those a reporter would have on assignment.

5-6 Advanced Photography (5-5)

Prerequisite for 5: Photography 4

Prerequisite for 6: Photography 5

Note: Photography 5 and 6 allow one to five units of credit; each three hours of laboratory work a week carrying one unit of credit.

An advanced course for competent students with previous training and experience.

7 Special Projects (See Note)

Prerequisite: None

Note: The student may earn 1, 2, or 3 units, the hours to be arranged at the time of registration.

A course to develop the talent of students unable to devote full time to Photography, to enable advanced photography students to attempt individual assignments not offered in the intermediate and advanced courses, and to offer art majors an opportunity to experiment and combine artistic ability with photo technique.

PHYSICS

1-2 Engineering Physics (3-3)

Prerequisites for 1: Mathematics 3 and Physics 10, or physics in high school (Mathematics 3 may be taken concurrently).

Prerequisites for 2: Physics 1 with a grade of "C" or better and Mathematics 4 (which may be taken concurrently).

Note: Physics 1-2 is restricted to Engineering and Science Majors.

Mechanics, properties of matter, fluids, heat, and sound. An intensive study of motion dynamics, statics, vectors, liquids, gases, heat effects, change of state, calorimetry, heat transfer, and sound waves. Three hours of lecture and one two-hour laboratory period each week.

3-4 Engineering Physics (3-3)

Prerequisites for 3: Physics 2 with grade of "C" or better and Mathematics 5, (which may be taken concurrently).

Prerequisites for 4: Same as for 3

Magnetism, electricity, wave motion, and light presented as a continuation of Physics 1-2. Study laws of magnetism, static electricity, current flow; electromagnetism and induced currents; conduction through gases, radioactivity; laws of wave motion in light, spectroscopy, etc. Three hours of lecture and one two-hour laboratory period each week.

5-6 General Physics (4-4)

Prerequisites for 5: Physics 10, Chemistry 41 or 11, or physics or chemistry in high school and Mathematics 2 or trigonometry in high school. (Mathematics 2 may be taken concurrently).

Prerequisite for 6: Physics 5.

Note: Required of pre-medical students.

A general course including a study of properties of matter, mechanics, heat, sound, light, electricity, and magnetism. Lectures, demonstrations, problems, and laboratory work. Three hours of lecture and one three-hour laboratory period each week.

10 Introduction to Physics (3)

Prerequisites: Mathematics 41 and 40, or one year of algebra and one year of geometry in high school.

Note: This course may not be taken for credit by students who have completed Physics 1 or 5.

A brief presentation of some of the more important phenomena in physics with experimental illustration.

29-30 Applied Electricity (4-4)

Prerequisites for 29: Mathematics 41, 40, and Physics 10; or algebra, geometry, and physics in high school.

Prerequisite for 30: Physics 29

A brief course in electric circuits and machines with emphasis on fundamental principles of electricity and magnetism; their applications to electric power equipment. Laboratory measurement and calculations of various circuits, direct and alternating current generators and motors, transformers, meters and control equipment. Field trips to power plants and industrial applications of electrical power. Three hours of lecture and one three-hour laboratory period each week.

31-32 Electronic Fundamentals (4-4)

Prerequisites for 31: Mathematics 41, 40, and Physics 10; or algebra, geometry, and physics in high school.

Prerequisite for 32: Physics 31

A study of vacuum tubes and vacuum tube circuits and their applications to radio, radar, and television; electronic power supply circuits, rectifiers, oscillators and ultra-high frequency generators; the cathode ray oscillograph and its uses in electronics; wave guides, cavity, resonators, antennas, and high-frequency transmission lines; non-sinusoidal waves and transients; special circuits for the production of square waves, saw-tooth waves and pulses, aircraft radio and electrical systems.

35-36 Sound Recording (1-1)

Prerequisite for 35: Experience with sound equipment.

Prerequisite for 36: Same as for 35.

A laboratory course in which measurement will be made to determine the frequency response, decibel gain, and per cent of distortion of various parts of sound equipment. Required of those who operate the recording system for the radio production class.

47-48 Physical Apparatus (1-1)

Prerequisite for 47: Physics 10 or physics in high school.

Prerequisite for 48: Same as for 47.

Note: Either semester may be taken first.

Laboratory work in designing, constructing, and repairing apparatus for physics laboratory and lecture demonstrations. Three hours each week.

PHYSIOLOGY**11 Introductory Physiology (4)**

Prerequisite: A year course of science in the 11th or 12th grade with a grade of "B" or better or a "C" grade or better in a science course taken in college (Anatomy 11 preferred).

A laboratory course in the functions of the various systems of the human body. Lectures, charts, models, and dissection material. Courses required for pre-nursing students, elective for others. Three hours of lecture and one three-hour laboratory period each week.

POLITICAL SCIENCE**1-2 Introduction to Government (3-3)**

Prerequisite for 1: None

Prerequisite for 2: Political Science 1, 5, or Social Science 31-32.

Note: Political Science 1 allows only one unit of credit for students who have completed Political Science 5 or Social Science 32.

An introduction to the principles and problems of government. In the first semester particular emphasis is placed on national government in the United States. In the second semester a comparative study is made of constitutional principles, governmental institutions, political parties, and recent history of policy and action of selected governments abroad. Political Science 1 meets the California State requirement in the American Constitution.

5 American Political Ideals (2)

Prerequisite: None

Note: It is recommended that the California State requirement in American History be completed prior to enrollment in this course. Political Science 5 allows no credit for students who have completed Political Science 1 or Social Science 32.

A historical, philosophical, and analytical study of the theory and practice of American government. Special emphasis is placed on American constitutional history and the development of American democratic thought. A critical study of modern political ideology is made.

6 American State and Local Government (2)

Prerequisite: None

A study of the development of state constitutions, practices, and laws. The relation of the states to the Federal government and also to county and municipal government. Particular emphasis is placed up on California government.

Introduction To Social Science

See Social Science 31-32.

PSYCHOLOGY

1 General Psychology (3)

Prerequisite: Sophomore standing preferred

An intensive study of human and animal behavior: emotions, learning, memory, motivation, thinking, and imagination; the individual differences in ability, intelligence, personality, maturation, and development; personal applications.

2 General Psychology (3)

Prerequisite: Psychology 1.

Psychology in college life, child development, education, vocational guidance, human adjustments, mental illness, speech correction, propaganda, crime, music, art, leisure, industry, business, and clinical practice. The sequence of Psychology 1-2 will meet the requirements for junior standing at the University of California or the University of California at Los Angeles.

7 Personal and Social Adjustment (3)

Prerequisite: None

The dynamics of personality development. Applications of the principle of psychology to family relationships, social adjustment, and factors modifying self-evaluation. This course is not recommended for students who have completed Psychology 1.

21 Occupational Planning (1)

Prerequisite: None

Designed to apply scientific procedures to the selection of a life career, this course is intended for those students (1) who are undecided concerning their future job, or (2) who wish to verify the wisdom of a vocational choice already made. Particular emphasis is given the planning of a career in terms of the war effort. Lectures, standardized tests, motion pictures, self-analysis, outside speakers.

22 Vocational Adjustment (1)

Prerequisite: None

Note: This course is required of all students participating in the Work Experience program.

A clinical approach to problems of vocational adjustment based on actual work experience. This course is designed to aid students (1) in selecting a field of work in harmony with their interests and abilities, (2) in making a satisfactory adjustment on the job, and (3) in making progress in the work. How to apply for a job, personal interviews, employer-employee relations, letters of application, personality development, self-analysis, occupational exploration, job ethics, social security, etc.

X How to Study (0)

A ten weeks course designed to aid students in improving study habits. Special effort is made to individualize the course giving each student guidance in connection with his problems of effective study. Ample opportunity is provided for practicing the suggested procedures presented for scholastic success in the classroom.

Y Reading Improvement (0)

Prerequisite: None

A laboratory course devoted to the diagnosis and correction of specific reading deficiencies. Individual assistance is given to increase both reading rate and reading comprehension. Students may enter this course at any time during the semester.

Marriage and Family Living

See Home Arts 31

Pre-School Child

See Home Arts 35

SOCIAL SCIENCE**31-32 Introduction to Social Science (4-4)**

Prerequisite for 31: None

Prerequisite for 32: Social Science 31

Note: Social Science 31-32 allows only six units of credit for students who have completed History 5 or Political Science 1 or 5, or History 17-18 and only four units of credit for those who have completed both History 5 and Political Science 1 or 5.

A survey of the principal facts and concepts of sociology, economics, and political science. Problems are studied in relationship to the historical development of the United States. The student is led to acquire a body of knowledge through an analysis of historical and contemporary problems, to understand the actual experience and situations that confront him, to obtain a realistic view of the total social scene. This course (if both semesters are completed) meets the California State requirements in American History and the American Constitution.

41 Student Leadership (1)

Prerequisite: None

Note: Open to all students interested in developing leadership ability. Elected officers of student organizations are urged to enroll.

Fundamentals of student leadership. A study of leadership theory, parliamentary law, committee techniques, and democratic organization. During one period each week, the class participates in the regular meeting of the Glendale College Legislature.

SOCIOLOGY

1-2 Introduction to Sociology (3-3)

Prerequisite for 1: None

Prerequisite for 2: Sociology 1

A study of the processes of group life, the major social institutions, and the problems arising from group relationships. The factors that affect men's relations with one another, the variations of social behavior, and theories of social change, with special attention to American society. Lectures, discussions, reports.

SPANISH

1 Elementary Spanish (4)

Prerequisite: None

Note: This course may not be taken for credit by students who have completed two years of Spanish in high school with grades of "C" or better within the past two years.

Fundamentals of Spanish grammar. The student is trained to pronounce Spanish correctly, to acquire a small working vocabulary which he uses in conversation and writing, and to learn to read simple Spanish.

2 Elementary Spanish (4)

Prerequisite: Spanish 1 with a grade of "C" or better, or two years of Spanish in high school with grades of "C" or better completed within the past two years.

Note: This course may not be taken for credit by students who have completed three years of Spanish in high school with grades of "C" or better within the past two years.

This course is based upon the reading and interpretation of idiomatic Spanish prose, with a further study of pronunciation and review of the fundamentals of Spanish grammar.

3 Intermediate Spanish (4)

Prerequisite: Spanish 2 with a grade of "C" or better, or three years of Spanish in high school with grades of "C" or better completed within the past two years.

Note: This course may not be taken for credit by students who have completed four year of Spanish in high school with grades of "C" or better within the past two years.

This course includes further study of Spanish grammar and idioms, intensive and extensive reading in contemporary colloquial Spanish, oral résumés or readings, and written composition.

4 Intermediate Spanish (4)

Prerequisite: Spanish 3 with a grade of "C" or better, or four years of Spanish in high school with grades of "C" or better completed within the past two years.

A continuation of Spanish 3 with reading of more difficult literary texts.

SPEECH

1-2 Fundamentals of Speech (2-2)

Prerequisite for 1: None

Prerequisite for 2: Speech 1

The basic principles of speech for communication are studied and applied through practice of original, occasional, informal, and declamatory speeches and interpretative selections.

3-4 Public Speaking (3-3)

Prerequisite for 3: A satisfactory grade in the English Placement Test or a grade of "C" or better in English 41.

Prerequisite for 4: Speech 3

Emphasis is placed upon organization and delivery of the complete speech given as a term project. Short exercises and informal talks are utilized in the development of rhetorical skills. This course satisfies speech requirements of those expecting to transfer to specialized and professional work in colleges and universities.

25-26 Public Discussion (3-3)

Prerequisite for 25: Some previous speech work

Prerequisite for 26: Same as for 25,

The study and practice of the essentials and types of group discussion by the use of the weekly topics presented by the Town Meeting of the Air. Discussion teams are prepared for campus and off-campus programs.

Not to be offered 1951-1952.

31-32 Radio Production (2-2)

Prerequisite for 31: None

Prerequisite for 32: None

A laboratory course in writing, acting, announcing, producing, directing, and recording public-service broadcasts over radio station KIEV.

THEATER PRACTICE

1 Theater and Motion Picture Survey (2)

Prerequisite: None

A lecture appreciation course designed to provide the student with a general knowledge of theater and motion picture historical development, theatrical and motion picture method, and a vocabulary of standard terms in common use in these fields. Phonograph records of the world's great plays are heard and some excellent motion pictures are seen.

3-4 Fundamentals of Acting (2-2)

Prerequisite for 3: None

Prerequisite for 4: Theater Practice 3

Study of the acting process: elementary principles of voice and diction, characterization, interpretation, the psychology of acting and the creation of character, and a comparative study of acting periods and styles. Pantomimes, improvisations, and simple acting exercises.

5-6-7-8 Theater Workshop (See Note)

Prerequisite: None

Note: The student may take 5, 6, 7, or 8 for 1, 2, or 3 units. A proportionate amount of work will be required according to the number of units elected by the student and signed for at the time of registration. Courses are to be taken in sequence.

Students should not enroll for both Theater Practice 5-6-7-8 (Theater Workshop) and Theater Practice 31-32-33-34 (Technical Stage in the same semester).

Students enrolled in this course will be organized in the form of a company for the Glendale College drama productions. Each student will be assigned to work in accordance with his interest and talents, and the training will be comparable to an internship or apprenticeship. The following phases of a producing theater are involved: acting, directing, playwriting, business administration, and publicity.

9-10 Stage Make-Up (1-1)

Prerequisite for 9: None

Prerequisite for 10: Theater Practice 9

Instruction in the use and application of all types of stage make-up will be given. Students from this course will compose the make-up crew for all college productions.

21 Stage Design (2)

Prerequisite: None

A practical course of instruction in the fundamentals of stage design. All the sets used in Glendale College productions will be designed by this class. Some ability in art, costuming, or theater techniques is helpful.

31-32-33-34 Technical Stage (See Note)

Prerequisite: None

Note: The student may take 31, 32, 33 or 34 for 2 or 3 units. A proportionate amount of work will be required according to the number of units elected by the student and signed for at the time of registration. Courses are to be taken in sequence.

Students should not enroll for Theater Practice 31-32-33-34 (Technical Stage) and Theater Practice 5-6-7-8 (Theater Workshop) in the same semester.

A laboratory class in the construction and handling of scenery and scenic efforts and in the operation of the stage. All technicians for staging the various Glendale College productions will be drawn from this class. It is required that class members have free time to devote to rehearsals and performances.

TRADES

In all trade courses one unit of credit is granted for each 45 hours of class and laboratory work. Classes may be entered at any time provided there is an opening in the class.

1-2 Elementary Machine Shop (6-6)

Prerequisite for 1: None

Prerequisite for 2: Trade 1 or Trade 6

The fundamentals of the machinist trade. Included are the proper use of hand tools and the correct operation of machine tool equipment such as lathes, shapers, milling machines, drill presses, and grinders. The study of basic science and related information in machine shop work. The course consists of five three-hour laboratory periods each week and satisfies pre-apprenticeship requirements.

3-4 Advanced Machine Shop (6-6)

Prerequisite for 3: Trade 2

Prerequisite for 4: Trade 3

Advanced and complicated operations of machine shop tools and equipment, and the machining of different kinds of metal. Precision inspection, production and assembly. Heat treatment of metals and basic tool and die work. Students will carry out complete projects from design to finished results. The course consists of five three-hour laboratory periods each week and gives advanced apprenticeship ratings to students completing it.

5-6 Introductory Machine Shop (3-3)

Prerequisite for 5: None

Prerequisite for 6: Trade 5

Note: Not open to students who have completed Trade 1.

An introductory course to aid students in allied fields of training. The course will include theory and practice of hand and machine tool equipment.

7-8 Machine Shop Practice (3-3)

Prerequisite for Trade 7: Trade 1 or Trade 6

Prerequisite for Trade 8: Trade 7

A course to provide practice on machine shop equipment. Students will work on individual projects.

9 Principles of Tool Engineering (6)

Prerequisite: Trade 4

Advanced course in machine shop training presenting systems of production, interchangeability, and dimensioning as they pertain to tool design. Theories of milling fixtures, drill jigs, and bushings; locating and clamping of parts, tooling for horizontal turret lathes, and inspection gages are studied. The tooling engineer's training, duties, and place in a manufacturing organization are investigated.

11-12 Elementary Metal Manufacturing (6-6)

Prerequisite for 11: None

Prerequisite for 12: Trade 11

The fundamentals of the trade. Included are the proper use of hand tools and the correct operation of metal machinery and equipment such as hand-operated shears, brakes and rolls, blanking and forming dies, assembly jigs and fixtures, electric drill motors and pneumatic riveting tools, elementary template layout. The study of basic science and related information in metal work. The course consists of five three-hour laboratory periods each week and satisfies pre-apprenticeship requirements.

13-14 Advanced Metal Manufacturing (6-6)

Prerequisite for 13: Trade 12

Prerequisite for 14: Trade 13

Advanced and complicated fabrication methods, using different kinds of metal. Hand tools and power-operated machines and equipment are utilized. Metal precision inspection, production, and assembly. Advanced template layout and lofting. Heat treatment of metals. Special tooling problems. Students will carry out complete projects from design to finished results. The course consists of five three-hour laboratory periods each week and gives advanced apprenticeship rating to students completing it.

15 General Metal Manufacturing (3)

Prerequisite: None

An introductory course to aid students in allied fields of training. The course will include theory and practice of hand and machine tool equipment, pattern development, and intricate layout.

17-18 Elementary Welding (3-3)

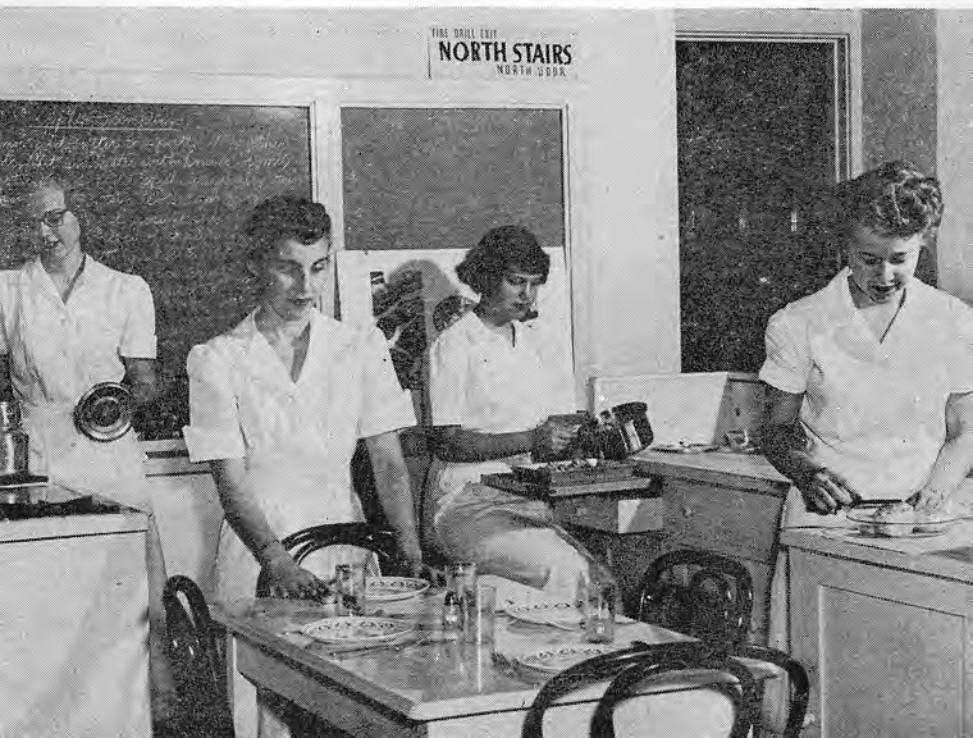
Prerequisite for 17: None

Prerequisite for 18: Trade 17

The principles and techniques involved in general welding and cutting. The student is given experience in applying the principles by individual practice on a sequence of selected jobs including welding joints in steel, cast iron, brass, bronze, aluminum; and brazing joints in steel, cast iron, and malleable iron.



MILL AND CABINET HOME ARTS





AUDITORIUM BUILDING

19-20 Advanced Welding (3-3)

Prerequisite for 19: Trade 18

Prerequisite for 20: Trade 19

A course providing an understanding of the extensive usefulness of welding in industry. Practical welding ability is developed that may be applied to enter the field of welding as a vocation.

21-22-23-24 Carpentry (8-8-8-8)

Prerequisite for 21: None

Prerequisite for 22: Trade 21

Prerequisite for 23: Trade 22

Prerequisite for 24: Trade 23

The course includes theoretical and practical work necessary to become a carpenter. The theoretical work includes blue print reading, mathematics, materials, estimation, and procedures used in the building trades. The practical work includes shop practice in the use of hand and power tools, and the actual construction of various types of buildings.

25-26-27-28 Mill and Cabinet (8-8-8-8)

Prerequisite for 25: None

Prerequisite for 26: Trade 25

Prerequisite for 27: Trade 26

Prerequisite for 28: Trade 27

A course including the theoretical and practical work necessary to enter industry in the mill and cabinet work field. The theoretical work includes blue print reading, related mathematics, materials, estimation and procedures in industry. The practical work includes a sequence of selected jobs to give the student all-around ability and speed.

31-32 Elementary Trade Drafting (6-6)

Prerequisite for 31: None

Prerequisite for 32: Trade 31

A basic course in drafting consisting of instruments of the trade; lettering, orthographic projection, detail and assembly drawings, free hand drawing, shop sketching and blue print reading, welded and machined parts, pattern development and layout.

33-34 Advanced Trade Drafting (6-6)

Prerequisite for 33: Trade 32

Prerequisite for 34: Trade 33

Drawing for production, production engineering, and shop practices. Design of castings, forgings, and advanced machine parts. Principles of lofting. Elements of stress analysis. Individual instruction in the field of drafting in which the student desires to specialize.

43-44 Mathematics for Trades (3-3)

Prerequisite for 43: None

Prerequisite for 44: Trade 43

A thorough review of the basic principles of arithmetic with stress laid on fractions and decimals, proportion and percentage. Basic geometry, practical algebra, trigonometry, and the strength of materials will be covered. Problems applied to industry, such as tapers, screw threads, gears, etc., will complete the course.

45 Physics for Industry (3)

Prerequisite: None

The application of physics to industry. Fundamental concepts, pressure and buoyancy in fluids, simple and compound machines, hydraulic and pneumatic machines, work, energy and power, composition and resolution of forces. Heat—its measurement, transfer and conversion to work, light and color, magnetism, electric currents and circuits.

46 Materials and Processes (2)

Prerequisite: None

A study of the manufacture and properties of ferrous and non-ferrous alloys, clay products, wood, cements, plastics, fabrics, fuels, glass, concrete, rubber, etc. Their uses, adaptability, and limitations in industry will be studied. Methods of manufacture and testing techniques currently used will be covered.

47-48 Metal and Jewelry Craft (4-4)

Prerequisite for Trade 47: None

Prerequisite for Trade 48: Trade 47

The use and knowledge of tools, equipment, and the various types of materials such as copper, brass, nickel, silver, monel, pewter, soft solder, stainless steel, silver gold, plastic, and stones. These will be fashioned into many articles among which will be book ends, letter holders, trays, lamps, bowls, pins, chains, lockets, rings, bracelets, belt buckles, necklaces, earrings, tie clips, brooches, and key chains.

51-52 Woodwork (See Note)

Prerequisite for 51: None

Prerequisite for 52: Trade 51

Note: One unit of credit is granted for each 45 hours of class work. Limit 24 units.

The course includes basic hand tool skills, the operation of woodworking machinery, wood finishing, blueprint reading, and material listing. Workmanship, construction and design are emphasized. The course will also offer opportunity to review skills and related knowledge previously acquired in various phases of woodworking including house construction and cabinet making. Projects shall be selected by enrollees.

55 Roof Framing (1)

Prerequisite: Journeyman Carpenter

Practical application as well as related information is given covering common, hip, valley and jack rafters, together with explanation of rafter tables on the framing square.

56 Blueprint Reading and Estimating (1)

Prerequisite: Journeyman Carpenter

Symbols, lines, conventions and terms are explained; quantities of materials for concrete work, rough lumber, millwork and finish lumber lists are taken, blueprint and cost of same are estimated.

57 Door Fitting and Hanging (1)

Prerequisite: Journeyman Carpenter

Method of making and setting door jambs; fitting and hanging doors; fitting and installing hardware is explained to and performed by each member of this class.

58 Stair Layout and Steel Square (1)

Prerequisite: Journeyman Carpenter

Explanation of stair terms and members, mathematics of stair layout is given and actual layout of a regular stair problem is performed by each member of this class. The various tables on the framing square are fully explained and demonstrated.

ZOOLOGY

1-2 General Zoology (4-4)

Prerequisite for 1: A "B" grade or better in two semesters of a science course in the eleventh or twelfth grades of high school or a "C" grade in one semester of a science course in college.

Prerequisite for 2: Zoology 1.

Note: Required of pre-medical and pre-dental students, and psychology, paleontology, and zoology majors.

An introduction to the principles of animal biology with special reference to the structure, functions, heredity, and evolution of animals. Structure and functions of chordate types, including their embryonic development. Study and dissection of animal types, assisted by charts and models. Two hours of lecture and two three-hour laboratory periods each week.

APPENDIX

LOWER DIVISION REQUIREMENTS

For Certain Universities and Colleges
in California

I University of California (Berkeley)— College of Letters and Science

The requirements for junior standing are:

First: the completion of not less than 60 units of college work.

Second: the fulfillment of the following general and specific requirements.

a. General University Requirements:

English Subject A—Students completing English 1 in Glendale College with grade of "C" or better satisfy this requirement.

Military Science and Tactics (men)

(Note: If a student completes 60 units of transfer work in a junior college, he is exempt from this requirement.)

b. Foreign Language

At least 16 units in not more than two languages, with not less than four units in any one language. The first two years of high school work in a foreign language will be counted as four units of this requirement, and the third and fourth years of high school work in foreign language will each be counted as four units. No credit is given for less than two years of high school work in foreign language.

c. Matriculation Mathematics

Elementary algebra and plane geometry. Students should fulfill these requirements in high school; students who have not done so may take Mathematics 41 and Mathematics 40 at Glendale College, but on transfer no unit credit for advance standing will be allowed.

d. Natural Science

At least 12 units, including one course in a laboratory science (six hours of laboratory work weekly). The choice of sciences should be made from the following list:

High school physics*, 3 units. (1 high school credit)

High school chemistry*, 3 units. (1 high school credit)

Anatomy 11

Bacteriology 11

Biology 1, 2

Botany 1*

Chemistry 1*, 2*, 3*, 4*, 5*, 6*, 11-12*

†Geography 1

Geology 1, 2

Paleontology 1

Physics 1-2-3 or 4*, 5-6*, 10

Physiology 11

Zoology 1*, 2*

*Laboratory science courses

e. Additional

A sequence (of 5 or 6 units) in *each of four* of the following six groups, one of which may be postponed to the upper division:

1. English or Public Speaking

English 1-2
Speech 3-4

2. Foreign Language

This requirement is in addition to requirement b above of 16 units. This may be satisfied by one college course of not less than four units, or by two years of high school Latin.

3. Mathematics

Any two of the following courses: Mathematics 2 or high school trigonometry, 3, 4, 8, 9.

4. Social Sciences

Economics 1-2
†Geography 1-2, 5-6
History 1-2, 3-4, 17-18
Political Science 1-2
Psychology 1-2
Sociology 1-2

5. Philosophy

Philosophy 1-2

6. Fine Arts (and two courses below; not necessarily a sequence)

Art 1, 2
Music 3, 4
English 5, 6, 8

†Geography 1 may be used either on the Natural Science requirement or the Social Science sequence, but not on both.

2 University of California at Los Angeles— College of Letters and Science

The requirements for junior standing are:

First: the completion of 60 units of college work with an average grade of "C" or better.

Second: fulfill requirements a, b, c, d, and at least three out of the six requirements under e, f, and g below.

a. General University Requirements:

English Subject A—Students completing English 1 in Glendale College with grade of "C" or higher satisfy this requirement.

Military Science and Tactics or Naval Science (men).

(Note: If student completes 60 units of transfer work in a junior college, he is exempt from this requirement.)

Physical Education, 4 semesters.

b. Foreign Language

At least 16 units in not more than two languages. The first two years of high school in a foreign language will be counted as four units of this requirement; the third and fourth years of high school work in the same language will be counted as four units each. Only high school work of grade "C" or better may be counted. No credit is given for less than two years of high school work in a foreign language. If a new language is begun on college level, course 2 with its prerequisites must be completed.

c. Matriculation Mathematics

Elementary algebra and plane geometry. Students should fulfill these requirements in high school; those who have not done so may take Mathematics 41 and Mathematics 40 at Glendale College, but on transfer no unit credit for advance standing will be allowed.

d. English Composition

Three units of English composition with grade of "C" or better.

e. Natural Sciences

1. Two courses (5 units) in physical science including at least one course from group (a).

Group (a)

Chemistry 1, 11
Mathematics 3
Physics 1, 5, 10

Group (b):

Geography 1
Geology 1, 2

2. At least 5 units in biological science, chosen from the following:

Biology 1, 2
Botany 1
Paleontology 1
Zoology 1, 2

f. Social Sciences

1. A six-unit year course in history chosen from the following:
History 1-2, 3-4, 17-18
2. At least six units in social sciences exclusive of history and including courses in at least two subjects, chosen from the following:

Economics 1
Geography 2
Political Science 1, 2
Psychology 1
Sociology 1

g. Humanities. Two of the following three groups:

1. Literature—4 units.
English 5-6

2. Philosophy—a six-unit lower division course
Philosophy 1-2
3. The Arts—4 units
Art 1, 2
Music 3, 4

3 University of Southern California— College of Letters, Arts, and Sciences

The requirements for junior standing are the completion of 60 units acceptable work and a "C" average or better on all college work attempted. It is recommended that a student should complete, if possible, within the 60 units the general requirements listed below.

- a. Art Appreciation or Music Appreciation, 2 units
Students who transfer with 60 or more units of advance standing may substitute two units of electives in fine arts or music.
- b. English, 6 units
English 1-2
- c. Foreign Languages—One foreign language, 12 units.
Each year of foreign language in high school will be accepted in fulfillment of three units of this requirement.
- d. General Studies, 13 units
 1. Man and civilization—6 units
History 7-8. Students who transfer with 60 or more units may substitute six units of social studies.
 2. American Civilization and Institutions—4 units
History 5, Political Science 5
 3. Three units to be selected from the following:
 - (a) Problems of Human Behavior, 3 units
Psychology 1. Students who transfer with 60 or more units of advance standing may substitute 3 units of psychology.
 - (b) Problems of Human Values, 3 units
Students who transfer with 60 units of advance standing may substitute 3 units of philosophy.
- e. Literature, 4 units
The work may be taken in English, American, or comparative literature.
- f. Physical Education, 6 units
Physical Education activity (4 semesters) 2-4 units
Health and Physical Education 1
Students who transfer 60 units may substitute electives for the 6 unit requirement in physical education.
- g. Sciences, 11 units

At least one laboratory course must be included. Chemistry and physics in the third or four year of high school will each be accepted in partial fulfillment of this requirement, but not for unit credit towards a degree. The choice of sciences should be made from the following list:

- High school chemistry* (3 units)
- High school physics* (3 units)
- Anatomy 11*
- Astronomy 1
- Bacteriology 11*
- Biology 1, 2, 11
- Botany 1*
- Chemistry 1*, 2*, 3*, 4*, 5*, 6*, 11*, 12*
- Geology 1, 2
- Minerology 1*
- Physics 1*, 2*, 3*, 4*, 5*, 6*, 10
- Physiology 11*
- Zoology 1*, 2*

*Laboratory science courses.

4 Stanford University—

Lower Division Requirements for all Schools of University

Lower Division requirements are designed to introduce the student to fundamental fields of human interest. A "C" average in scholarship is required in all work undertaken. At least 10 semester units are required in each of the three following groups:

Group I—Humanities (English, foreign language, journalism, lecture courses in music, art, speech, and drama).

- a. Completion of year course in English composition.
English 1-2
- b. Completion of at least 1 2/3 full college years (14 semester units) or the equivalent in a foreign language.
This requirement may be satisfied in part by work completed in high school.
French 1-2-3-4, or Spanish 1-2-3-4, or German 1-2-3-4
- c. Electives, if needed, in arts and letters to total 10 semester units.

Group II—Natural sciences, and mathematics (biology, botany, chemistry, engineering, geology, mathematics, physics, psychology, and zoology).

- a. A year course in a laboratory science.
 1. Biology 1-2 or Zoology 1 for those who have not had at least one year of high school credit in a biological science.
 2. Chemistry 11-12, 1-2, Physics 1-2-3-4, 5-6, or Geology 1-2 for those who do not have at least one year of high school credit in physics or chemistry.
 3. Electives to total 10 semester units in this group.

Group III—Social Science (history, political science, economics, philosophy, sociology and geography).

- a. History of Western Civilization (8 semester units) History 1-2 or 7-8.

b. Electives—select one of the following year courses:

Economics 1-2, Philosophy 1-2, Political Science 1-2,
Psychology 1-2, Sociology 1-2

Note 1: All lower division students must enroll for physical training. Transfers from other colleges to Stanford may be relieved from certain above requirements by special action of Committee on Lower Division Administration.

Note 2: Students interested in the Stanford University *Honors Program* should complete the following lower division work: World Literature, one year; Fine Arts, one year; Philosophy, one year; Social Science, additional 10 units.

5 University of California (Berkeley)— School of Business Administration

A student transferring from a junior college must have followed a program of studies which would make him eligible for upper division standing in one of the colleges of the University. The student at Glendale College should fit his program so as to fulfill the lower division requirements of one of the colleges such as the College of Letters and Science (see page 124) and include in his program the following: Economics 1-2, 13-14, Law 17, Mathematics 9 or 3-4. It is recommended that the student include Geography 5-6.

6 University of California at Los Angeles— School of Business Administration

A student transferring from Glendale College must have followed a program of studies which would make him eligible for upper division standing in one of the colleges of the University such as the College of Letters and Science (see page 125) and complete the following: Economics 1-2, 13-14, Mathematics 9 or 3-4, English 1, course 2 (or equivalent) in a foreign language, and one laboratory course in natural science at the college level.

7 University of California at Los Angeles— College of Applied Arts

The College of Applied Arts was established on the Los Angeles campus to meet the demand for training of a specialized character which has a technical or professional appeal, to organize certain scientific and scholarly studies into suitable curricula which may be applied in the fields of industry and the arts, and to provide curricula for the training of teachers in specialized areas. Students who expect to transfer to U.C.L.A. to major in Apparel Design, Apparel Merchandising, Art, Dance, Business Education, Home Economics, Music, Physical Education, and Theater Arts should enroll in the College of Applied Arts. The lower division requirements of the College of Applied Arts are:

a. General University Requirements

English Subject A—Students completing English 1 in Glendale College with a grade of "C" or better satisfy this requirement.

Physical Education, 4 semesters

Military Science and Tactics (men)

(Note: If a student completes two years of work in a junior college, he is exempt from this requirement, but must elect other units in its place.)

b. Foreign Language, Natural Science, or combination of Foreign Language and Natural Science.

- (1) At least 16 units in one foreign language. High school work with a grade of "C" or better may be counted as four units for the first two years and four units each for third and fourth years towards this requirement, but no unit credit for advance standing is allowed.
- or (2) At least 12 units of natural sciences chosen from the following list including one laboratory science. Courses marked with an asterisk (*) satisfy laboratory requirements.

Anatomy 11
 Bacteriology 11
 Biology 1, 2, 11
 Botany 1*
 Chemistry 1*, 2*, 3*, 4*, 5*, 6*, 11-12*, 15-16*
 Geography 1, 5 (see note)
 Geology 1-2
 Mineralogy 1*
 Paleontology 1
 Physics 1*, 2*, 3*, 4*, 5*, 6*, 10
 Physiology 11
 Zoology 1*, 2*

- or (3) A combination of foreign language and natural science distributed as follows:

Foreign Language: At least 16 units in not more than two languages. High school work with grades of "C" or better may count as four units for the first two years together, and four units each for the third and fourth years towards this requirement, but no unit credit for advance standing is allowed. If a new language is begun in college, it may not apply on this requirement unless course 2 is completed.

Natural Science: At least nine units chosen from the natural science list set forth above, of which not less than one unit must be in laboratory work. Three units of mathematics not offered in satisfaction of (d) may be substituted for three units of this requirement.

c. Mathematics

Elementary algebra and plane geometry. Students should fulfill these requirements in high school; those who have not done so may take Mathematics 41 and Mathematics 40 at Glendale College, but on transfer no unit credit for advance standing is allowed.

- d. Three year courses. A year course chosen from three of the following groups, at least one of which must be chosen from 1, 2, or 3:

1. English 1-2, 5-6, Speech 3-4, or English 1-Speech 3.

2. Foreign Language additional to (b) above. No high school work may be counted.
3. Mathematics chosen from Mathematics 1, 2, 3, 4, 5, 6, 8, 9.
4. Social Science chosen from Economics 1-2, History 1-2, 3-4, 7-8, 17-18, Geography 1-2, 5-6, (see note), Political Science 1-2, Sociology 1-2.
5. Psychology 1-2.
6. Philosophy 1-2.
7. Art 1-2, 3-4, or 5-6; Music 1-2, 3-4, or 5-6.
(Acceptable only when Art or Music is not major)

Note: Geography 1 or 5 may be used on the natural science requirement or on the social science requirement, but not on both.

8 University of California—Santa Barbara College

Applications for admission to advance standing with less than 60 accepted units must fulfill admission subject requirements on the same basis as new freshman students. At least a "C" average is required in all college work attempted. A student is classified in junior standing if he has completed 60 accepted units.

Program for Majors in Liberal Arts:

1. Art, 4 units
Art 1, 2
2. Music, 4 units
Music 3, 4
3. Philosophy, 6 units
Philosophy 1-2
4. Social Sciences, 12 units
 - (a) History 17-18
 - (b) Economics 1-2, Geography 1-2, History 1-2, 3-4, 7-8, Political Science 1-2, Sociology 1-2.
5. Science and Mathematics (choice of a or b), 13-14 units
 - (a) Biology 1, Physiology 11 and at least six additional units from Physical Sciences (Chemistry 1, 2, 11, Physics 5, 6, 10).
 - (b) Chemistry 11 and Physics 10 with at least seven additional units from Biological Sciences (Biology 1, Botany 1, Physiology 11, Zoology 1, 2).
6. Foreign Language (0 to 12 units)

The divisional requirement of 12 units in one foreign language may be satisfied in whole or in part in high school. Students who have received credit for three years of a language in high school will be deemed to have fulfilled it. The majority, however, will find it necessary to take at least one college course of four units in order to meet the requirements of the Division or of the major department. It is advisable for students continuing in college a language begun in high school to complete divisional requirements as soon after entrance as possible.

7. English and Speech, 12 units
 - (a) English 1-2
 - (b) Additional units from English or Speech
English 5, 6
Speech 3
8. General Psychology, 3 units, Psychology 1
9. Military Science (men), 6 units
Students transferring with 48 units advance standing may substitute electives for this requirement.
10. Physical Education, 2 units
One-half unit activity course per semester.
In order for the student to begin his major field of study in lower division, it may be necessary to defer certain general education requirements to the upper division. Students should consult the Santa Barbara College catalog for requirements of the various majors, or write directly to the Registrar at Santa Barbara College. A student majoring in science will not follow the general education science requirements listed above.

Program for Majors in Applied Arts:

1. English and Speech, 12 units
Including English 1-2, Speech 3.
2. Social Science, 9 units
Including American History and Institutions
3. General Psychology, 3 units
Psychology 1
4. Sciences, 9-10 units
Both biological and physical sciences must be included.
5. Art and Music, 4 units
An appreciation course must be taken in at least one department. Activity courses are allowed in one department.
6. Controlled electives as required by department, 5-6 units.
7. Military Science (men), 6 units
Students transferring with 48 units advance standing may substitute electives for this requirement.
8. Physical Education, 2 units
One-half unit activity course per semester.

The remaining lower division units are usually chosen with a specific major in mind.

9 State Colleges of California

**Chico, Fresno, Humboldt, Long Beach, Los Angeles,
Sacramento, San Diego, San Francisco, San Jose**

A student expecting to transfer to a State College is advised to examine carefully the current catalog of the particular college he expects to enter and to follow as closely as possible its particular recommendations for study program.

The following requirements are common to all State Colleges and are prescribed by ruling of the State Board of Education. It is recommended that these be fulfilled as far as possible in the lower division.

General Education requirements:

1. Social Sciences, 9 units

The social sciences include required instruction in U. S. history, Constitution and American ideals and courses in the fields of economics, geography, history, political science, sociology, and similar fields. Courses must be selected from two or more of these fields.

2. Natural Sciences, 9 units

Natural sciences include the fields of astronomy, botany, chemistry, geology, physics, physiology, zoology, and similar fields. At least one course must be selected from a physical science and one from a life science.

3. Literature, Philosophy or the Arts, 6 units

Fine and practical arts not to exceed 3 of the 6 units.

4. Health and Physical Education, 2 units

5. Oral and Written Expression, 3 units

6. Psychology, 2 units

7. Additional units in General Education, 14 units

The courses to meet this requirement are determined largely by the particular college. These may be mainly distributed among the forgoing six general areas, may include one or more courses in family life education and mathematics, and in some cases the student may elect not over six semester units of this requirement in courses in foreign language.

10 Occidental College

The requirements for junior standing are: English composition, 4 units; foreign language, *8-0 units; History of Civilization, 24 units; natural science, 12 units; speech, 4 units; Biblical literature, *4-0 units; and electives, 4-16 units.

Note 1: To qualify for a degree from Occidental it is necessary to maintain a grade average of "C" or better. Admission is competitive and is based on several factors including academic records and aptitude test scores.

Note 2: Courses given at Occidental College in History of Civilization, and some sciences are especially integrated. Students should consult their counselors concerning acceptable Glendale College courses which may be substituted for these requirements.

* If necessary to substitute lower division electives which are prerequisite to a student's major area of concentration, these graduation requirements may be postponed until the last two years of college.

11 California State Polytechnic College

Students preparing to transfer to California State Polytechnic College should consult the catalog of that institution and as closely as possible take those courses required in the particular major being followed. The College accepts credit in those courses which "A", "B", and "C" grades have been earned. Those courses which meet student's particular major requirements will be allowed as such. Those courses not allowed as meeting particular subject requirements will be allowed as elective credit.

It is recommended that all students take the following courses: Economics 1-2, English 1-2, Speech 3 or 1, History 17-18 or Social Science 31-32, Home Arts 31, and Health and Physical Education activity courses.

In addition to the above students should take certain subjects pertaining to the particular division in which he wishes to major as follows:

Agriculture—Bacteriology 11, Botany 1, Chemistry 11-12 or 1-2, Economics 13-14, Mathematics 1, 2, 3, 4, 5, 8, and Physics 1-2-3-4 or 5-6

Engineering—Chemistry 1-2 or 11-12, Engineering 1, 2, 3, Mathematics 1, 2, 3, 4, 5, 8, and Physics 1-2-3-4 or 5-6.

Science and Humanities—Biology 1-2, English 5, 6, 8, 10, 13, 14 (total 6 semester units of literature), Mathematics 1, 2, 3, 8 and Psychology 7 and 1

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