

1954-1955



glendale college

Catalog

Glendale College

Catalog

AND ANNOUNCEMENT OF COURSES

1954-1955

APRIL 1, 1954



GLENDALE 8, CALIFORNIA

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COLLEGE YEAR

1954

1955

JULY

S	M	T	W	T	F	S
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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JANUARY

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30	31					

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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19	20	21	22	23	24	25
26	27	28	29	30		

Aug 30, 1955

FIRST SEMESTER

May 8, 15, 22	Pre-registration Examinations, 8 a.m.-12.
June 5, 17	Pre-registration Examinations, 8 a.m.-12.
September 1, 4, 11	Pre-registration Examinations, 8 a.m.-12.
September 13	Vaqueritos Day (All new students are expected to attend)
September 13-14	Registration for Former Glendale College Students, Followed by Registration of New Students
September 15	Class Instruction Begins
September 27-28	File Permanent Registration Programs
Oct. 14 & Dec. 2	Group Counseling
October 22	Last Day to Drop Class Without Penalty
November 11	Armistice Day—Holiday
November 12	Mid-semester Grade Reports
November 25-26	Thanksgiving Vacation
Dec. 20-31	Christmas Vacation
January 20	Last Day of Class Instruction
January 21	Final Examinations Begin
January 28	End of Semester

SECOND SEMESTER

December 4	Pre-registration Examinations, 8 a.m.-12.
December 9	Pre-registration Examinations, 2-6p.m.
January 8, 22, 27	Pre-registration Examinations, 8 a.m.-12.
January 31	Vaqueritos Day (All new students are expected to attend)
Jan. 31-Feb. 1	Registration of Former Glendale College Students, Followed by Registration of New Students
February 2	Class Instruction Begins
February 14-15	File Permanent Registration Programs
February 22	Washington's Birthday—Holiday
Mar. 3 & April 28	Group Counseling
March 11	Last Day to Drop Class Without Penalty
April 1	Mid-semester Grade Reports
April 4-8	Spring Vacation
May 14, 21, 28	Pre-registration Examinations, 8 a.m.-12.
May 30	Memorial Day—Holiday
June 4, 16	Pre-registration Examinations, 8 a.m.-12.
June 9	Last Day of Class Instruction
June 10	Final Examinations Begin
June 16	Graduation Exercises
June 17	End of Semester

GLENDALE COLLEGE ADMINISTRATION

BOARD OF EDUCATION

Edward C. Cannon, *President*
 Scott T. MacDonald, *Vice President*
 Mrs. Donald R. Williams, *Secretary*
 Arthur L. Hudson, D.D.S.
 A. L. Lawson

GLENDALE CITY SCHOOL ADMINISTRATORS

Normal C. Hayhurst - - - - *Superintendent*
 Kenneth M. Montgomery - - *Deputy Superintendent*
 M. A. Hesse - - - - *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 - - - - *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 Spag-
 noli, Doris C. Spencer, Sam A. Tenison, Park L. Turrill
 - - - - *Administration Committee*
 Harold B. Cochrane, Lois H. Flint, Leroy Travers
 Herndon, Jr., Grace Hamilton King, Anne Rambo
 - - - - *Counselors*
 Halsey P. Taylor *Director of Employment & Work Experience*

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.
- Ashton, Jack G. - - - - - Aviation
- *Bagish, Henry H. - - - - - Social Science
A.B., University of California Santa Barbara College;
M.A., University of California at Los Angeles.
- Barnes, Sidney G. - - - - - Aviation
- Belknap, Robert D. - - - - - *Instrumental Music*
A. B., San Jose State College; M.A., Columbia University.
- Bloomfield, Emily M. - - - - - Chemistry
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
- Brady, Raymond G. - - - - - *Radio and Television*
- Brewster, Harold L. - - - - - *Radio Production, Speech*
A.B., M.A., Ph.D., University of Southern California
- Brown, Robert William - - - - - Art
B.A., San Francisco State College; M.F.A., California
College of Arts and Crafts
- Cahoon, Gene - - - - - *Aviation Mechanics*
B.S., M.A., Los Angeles State College

- Carlson, Fredrick - - - - *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
- Danforth, Charles G. - - *Biology, Hygiene, Nursing*
A.B., Stanford University; M.A., University of California
- Dean, S. Morgan - - - - - *Aviation*
- Doll, Raymond P. - - - - - *Aviation*
- Elliott, Abraham F. - *Co-Chairman, Division of Health and Physical Education, Athletics*
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
- Flint, Lois H. - - - - *Head Counselor, Psychology*
A.B., A.M., Syracuse University; Ed. D., Stanford University
- Fritch, C. Lorene - - - *Testing Service, Counseling*
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

- Gonzales, James E. - - - - - *Drafting*
B.A., Adams State College
- Haden, Harley J. - - - - - *Physics*
A.B., Occidental College; M.A., University of Southern
California
- Hardison, Richard C. - - *Psychology, Philosophy*
A.B., M.A., Occidental College
- 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 Hamilton - - - *Counselor, English*
A.B., Columbia University; A.M., Ph.D., New York
University
- Kitch, Loran W. - - - - - *Biological Science*
B.S., University of Idaho; M.S., University of Southern
California
- Kitch, Marguerite F. - - - *French, Spanish*
A.B., De Pauw University; Certificate of French Studies,
University of Bordeaux
- Klotz, Dorothy E. - - - *Geography, Mathematics*
B.S., B.A., Ohio State University; M.S., University
of Southern California

- Krause, Arthur - - - - - *Commerce*
 B.Ed., State Teachers College, Whitewater, Wisconsin;
 M.A., State University of Iowa
- Kreider, John S. - - - - - *Social Science*
 A.B., Dickinson College; M.A., University of Southern
 California
- Levine, Ellis M. - - - - - *Social Science*
 A.B., University of California; M.A., Harvard University
- Lillie, Ella Lausman - - - - - *Mathematics, German*
 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
- McConnell, Carl E. - - - - - *Registrar*
 A.B., University of Kansas City; M.Ed., University
 of Southern California
- McCreary, Jack E. - - - - - *Home Arts, Social Science*
 A.B., M.A., University of Southern California
- McMahon, Fred R., Jr. - - - - - *Theater Arts, Speech*
 B.F.A., State University of Iowa; M.A., University
 of Southern California
- Meserve, Clement D. - *Geology, Paleontology, Mineralogy,*
Mathematics
 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
- Morris, Robert - - - - - *Machine Shop*
- Neal, Elizabeth - - - - - *Public Health Nurse*
 B.S., University of California at Los Angeles

- Noble, Loyd S. - - - *Chairman, Division of Business
Training, Commerce, Law*
A.B., Simpson College; L.L.B., L.L.M., University
of Southern California
- O'Neil, Maud E. - - - - - *Nursing Arts*
B.A., Stanford University; M.A., Ph.D., University
of California at Los Angeles
- Persell, Vernon P. - - - - - *Social Science*
B.S., M.A., University of Nebraska
- Place, Derrill - - - - - *English, Journalism*
A.B., Wabash College; M.A., Ohio State University
- Rambo, Anne Marie - *Counselor, Aviation, Social Science*
A.B., Walla Walla College; M.A., Occidental College
- Ramont, Esther - - - - - *Librarian*
A.B., University of Southern California; Certificate in
Library Science, California State Library School
- Reinhard, C. William - - - - *Physical Education*
A.B., University of California
- 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 at 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. - - - *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 - - - *Commerce, Social Science*
B.S., A.B., M.S., M.Ed., 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; M.A., University of Southern
California
- 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

- Wilson, Clarence O. - - - - *Carpentry, Woodshop*
- *Wolfe, Eugene - - - *Counselor, Health and Physical Education*
A.B., M.A., University of Southern California
- Woodrow, Ella - - - - - *Home Arts*
B.S., M.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. - - - - *Social Science*
A.B., Occidental College; M.B.A., Harvard Graduate
School of Business Administration

*Absent on Leave

STAFF ASSISTANTS

- Anderson, Margaret R.—Senior Secretary - *Director's Office*
- Davis, Henry—Head Custodian - *Administration Building*
- Gauthier, LaVaughn—Senior Clerk - *Registrar's Office*
- Gelms, Joan R.—Stenographer - - *Dean's Office*
- Howard, Janet S.—Stenographer - *Counselor's Office*
- McElroy, Margaret F.—Senior Secretary - *Registrar's Office*
- Moses, Mary W.—Clerk - - - - - *Library*
- Naylor, Ella W.—Clerk-Pianist - *Women's P.E. Department*
- Putney, Virginia—Clerk - - - - - *Library*
- Sanza, Jacqueline—Clerk - - - - *Registrar's Office*
- Smith, Helen—Clerk - - - - *Registrar's Office*
- Stucker, Nancy M.—Clerk - - - - *Registrar's Office*
- Whittaker, Jareen S.—Attendance Clerk *Registrar's Office*

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 29.

Classes. In order to provide for the large number of students who may 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 summer 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 sheet-metal shops, carpentry and mill and cabinet shop, an aviation testing unit, two locker and shower buildings for men and women, an art and architecture bungalow, 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.

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 one sees imposing vistas of Southland communities and high mountains.

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 ap-

proximately 18,500 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 35 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 35). A student with a satisfactory high school and junior college record will receive full credit for all university type 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 restricts the acceptance of credit from a junior college after a student has completed 70 semester units of college work in that courses taken over this limit will be allowed as meeting specific subject requirements but not as units toward the total required for graduation from there.

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 General Education

Students wishing to pursue a program of general education will find a broad schedule at Glendale College. Both mature and 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.

Veteran Training

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

Accreditation

Glendale College is accredited by the Western College Association.

Veteran Education

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 Veteran's 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 will be required to prove their capability by earning fifteen units with "C" average at Glendale College before credit for military service can be granted. Credit earned for military training will count toward satisfying requirements for the degree of Associate in Arts.

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 twelve years. The thirteenth summer term will open June 21 and close July 30, 1954. 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.

Student Employment Service

The college maintains an employment service to assist students and graduates in securing part-time and full-time employment. Application should be made in person in Room 111, Administration Building.

Referrals for placement are made on the basis of the student's experience, training, and, where desirable, approval of faculty members.

Since it is not always possible to secure employment immediately, the new student who plans to be self-supporting should not begin his college course without sufficient funds to cover the major expenses of at least the first semester. The Employment Service cannot guarantee that work will be found for all applicants, although every effort is made to find opportunities for all. No charge is made for this service.

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 Dean's Office. It is possible for some students to work for room and/or board. Any person interested should call in person at the Deans' Office, Ad 104, at the beginning of the semester.

Student Health

The Glendale Unified School District maintains an examining physician who is available to the College 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.

Scholarships

A number of scholarships are available each semester for both men and women students. Selection is made by the Faculty Awards Committee on the basis of academic achievement, financial need, integrity of character and service to the College. Each is contingent upon the student's having completed one semester of college work.

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

Patrons Award to Top Scholastic Ranking Man and Woman Graduate.

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 semesters for pre-dental students.

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 consideration.

Tuesday Afternoon Club Nursing Scholarship, two for \$100.00 each for students eligible to enter nurses' training.

Daughters of Union Veterans of the Civil War Scholarship for \$50.00.

Student Union and Bookstore

The Student Union consists of the bookstore and a fountain-cafeteria unit. 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 Students, 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. 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 22.

All students are urged to affiliate with at least one organization. Application for membership may be made through the Dean's 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 Intercollegiate Athletic Conference, competitive athletics are carried out in all sports for men. The Women's Recreational 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; Phi Theta Kappa—National Scholarship Society; Epsilon Omega—Women's Honorary Service Club; Sigma Xi Sigma—Honorary Physics and Chemistry Club.

Honors

Superior scholarship and distinguished service to the college are recognized by various awards presented at commencement.

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 Rec. Ass'n.	Women's Sports	Women		x
INTEREST ORGANIZATIONS				
Alpha Chi	Art	Both	x	
Archi	Architecture	Both	x	
D Pancho	Journalism	Both		x
Forensics	Public Speaking	Both	x	
Intervarsity Christian Fellowship	Bible Study	Both	x	
Kappa Pi Sigma	World Friendship	Both		x
Nu Sigma Psi	Nursing	Both		x
Out of Focus	Photography	Both	x	
Psi Beta Gamma	Secretarial	Women		x
Ski	Skiing	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
Charros	Honorary-Service	Men		x
Epsilon Omega	Honorary-Service	Women		x
*Phi Theta Kappa	Scholarship	Both		x
SERVICE ORGANIZATIONS				
Niads	Service	Women		x
Salients Auxiliary	Service	Women		x
Seidals	Service	Women		x
Student Christian Ass'n.	Welfare	Both	x	

* Upon graduation

** Application for membership in clubs may be made through Dean's 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 application 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. All transcripts become the property of Glendale College and will not be returned.

Pre-registration Examinations

Each applicant must take Pre-registration Examinations, which are given in May, June, September, December, and January (see page 5 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 in California may attend Glendale College.*

(c) *A student whose residence is outside the Glendale Junior College District and in another Junior College District in California 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.*

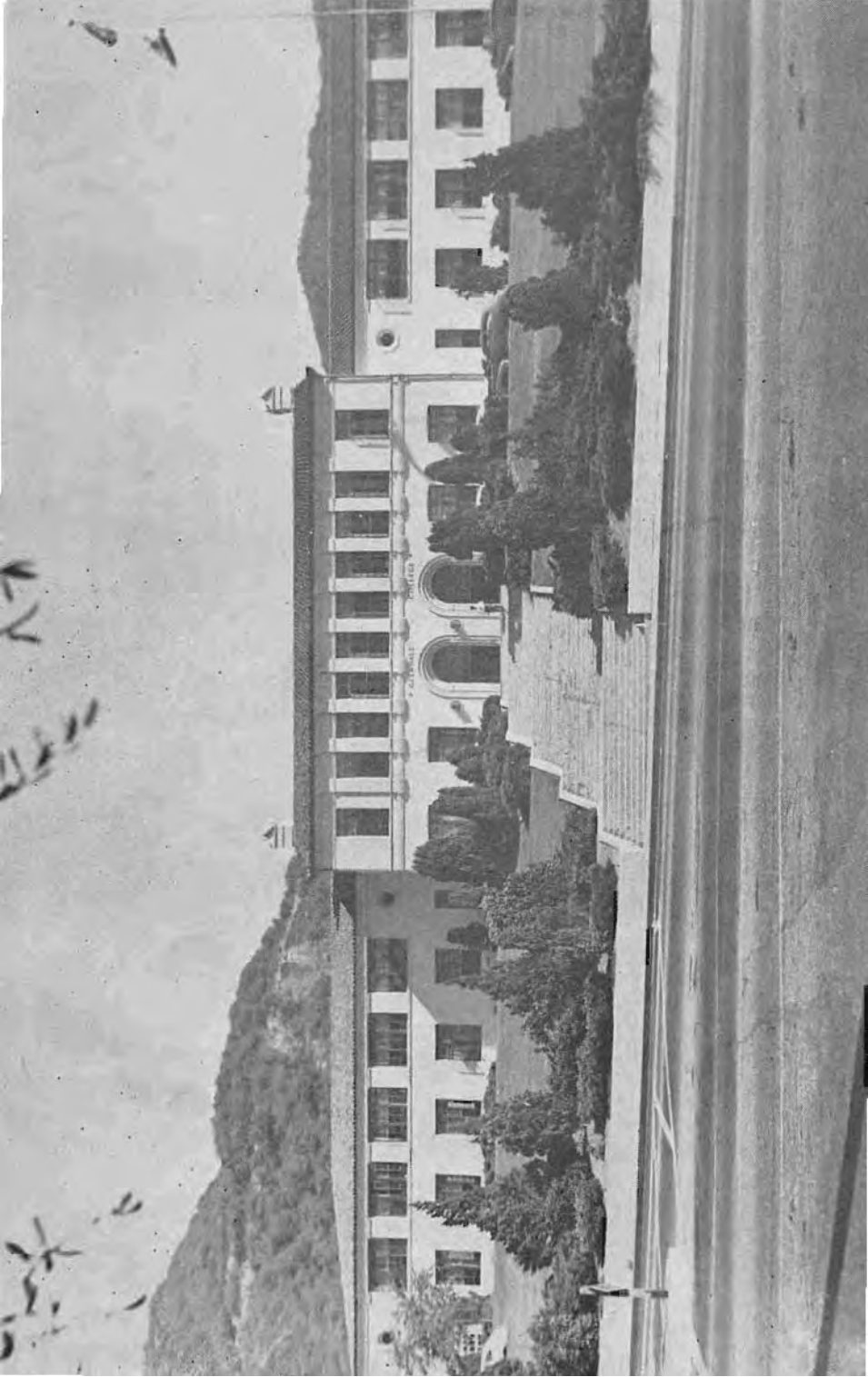
A student who is attending Glendale College on a transfer permit should carry a full program so that he will graduate in two years, because transfer permits are usually not renewed after a two-year period.

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

(e) Students who enroll under Public Law 346 do not need permits even though they have legal residence in a Junior College District in California. Students enrolling under Public Law 16 or Public Law 550 must have permits if their legal residence is in a Junior College District in California if it is not the Glendale Junior College District.

Registration

Each student must see his counselor and make out a Study-List prior to registration. Registration, the formal arranging in a program of the classes listed in the Study-List, takes place the first days (see page 5) of the semester when a Program





Between Classes - - - - Scene On Campus



Card is filed. Changes from this Program may be made by the student if he sees his counselor and completes a Petition for Change of Program. Permanent Registration forms showing the permanent program must be filed the first two days of the third week of college. The permanent program, however, must be in accord with the Program Card filed and with any Petitions for Change of Program. Classes are not added simply by listing them on the Permanent Registration forms; classes are not dropped simply by not listing them on the Permanent Registration forms. The student is held accountable for all classes not on the Program Card or for classes which have not for Change of Program; the student may not receive credit for classes not on the Program Card or for classes which have not been added by a Petition for Change of Program.

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.

At registration time students will have the expense of purchasing textbooks, supplies, and other incidentals. Students should bring about \$35.00 at the time of registration to cover these expenses. There will be need for additional supplies during the semester, but the amount varies with the course taken. A student taking flight training must contract for these services at his expense.

The legislative branch of the Associated Student Body has agreed upon dues of \$10.00 per semester plus \$1 which insures each student for blanket accident coverage not to exceed \$500 per accidental bodily injury received while on campus at Glendale College and/or participation in supervised campus activities (excluding interscholastic sports and off-campus, non-class activities). According to the constitution of the Associated Student Body a proportional part of the dues may be refunded during the first five weeks of the semester and after that no refund on dues is made.

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.

Vaqueritos Day

New students are expected to attend Glendale College on Vaqueritos Day during the registration period each semester. (See page 5 for date). Sponsored by the student government and administration together, a series of group meetings scheduled from 8:30 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 Service

See Page 155.

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 course for which he substituted the outside experience.

Many courses have no stated prerequisite. Here 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 Catalogue).

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 in state colleges of California, or in any other approved colleges, the applicant must include in his program courses acceptable for removing his subject shortages and present either:

(a) A minimum of 15 units of college transfer

*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 geom.) | 2 units |
| (d) Science (a third or fourth year subject with lab.) | 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.

courses with a grade-point average of 1.5 or higher, or

- (b) A minimum of 30 units of college transfer courses with a grade-point average of 1.3 or higher, or
- (c) A C average or higher on completion of all published requirements for junior standing in a college or school in the University.

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.

An applicant to the University of California who presents 60 units of advanced standing with satisfactory grades and who, in his total record, shows completion of all the subject requirements for junior standing in a college or school of the University of California may be admitted without reference to the specific subject pattern shown in his high-school record.

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 (Freshman and Sophomore) 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 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." The value of a course in units is reckoned at the rate of one unit for three hours' work per week per semester on the part of the student. The credit value assigned to a course is not determined by the number of class meetings per week, but by the number of hours of work required of the student. For most courses it is expected that the average student will spend two hours in preparation for one hour of lecture or recitation.

In *Courses and Their Content*, pages 70 to 140 in this catalog, the number of units of credit offered for each course may be found.

Unit Limitations

The normal program for a student at Glendale College is 16 units. 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.

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 toward graduation is allowed) plus all units in which an "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.

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 who shows that he is not reasonably profiting from his college work may be placed on academic probation or 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	Inc.—Incomplete
C—Average	F—Failure
	W—Withdrawn

An incomplete grade (Inc.) will be given only when an unforeseen emergency prevents a student from completing his work in a course. The incomplete grade must be removed by the end of the sixth school week after the beginning of the semester subsequent to the one in which the "Inc." was made. If not removed, the incomplete grade automatically becomes a grade of "F." Except in the case of an "Inc." 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 an "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.

To have a "C" average a student must have as many grade points as he has units *attempted*. Units *attempted* are all the units in which a passing grade has been earned plus all the units in which an "F" has been received.

General Probation

Students who persist in the violation of the established rules and policies of Glandale 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 absences may be legitimate, such as those due to the illness of a student, the serious illness or death of a member of a student's family, or participation in a recognized college function, 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 or 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 Registrar's Office, Ad 100, 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. Closing grades will be given as of the withdrawal date unless otherwise authorized in cases of emergency. Immediate attention to each detail of withdrawal procedure may make the difference between a "W" or an "F" on the student's permanent record.

Students completing a withdrawal before the end of the sixth week of school will receive a "W" in each course. Students completing withdrawal after the sixth week of school will receive a "W" in the course if they are passing at the time of withdrawal or an "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 an "F" in the course.

A student may withdraw from a class any time during the first six weeks without penalty if the withdrawal is properly made.

Those withdrawing from class after the first six weeks will receive a "W" in the course if passing at the time and an "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.

Final Examinations

At the end of each semester a special Final Examination Schedule is followed. Students must attend all classes during that period in accordance with the special schedule for that period. This arrangement permits the giving of final examinations in those classes which require them and the completion of the instructional program in the other classes.

No student shall be excused from taking a final examination where such is required as part of a course. Re-examinations are not given except as a means of removing an incomplete, "Inc.", (See page 30).

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 which may be completed in Glendale College to satisfy this requirement include History 17-18* (6 units); Political Science 1 (3 units); Political Science 5 (2 units); Social Science 31-32** (8 units).
2. One unit of State and Local Government. Courses in Glendale College which may be taken to satisfy this requirement include Political Science 6 (1 unit); Social Science 31-32** (8 units).
3. 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 units).
4. 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; Journalism 2; and Speech 1, 3.
5. A program of health and physical education as follows:
 - a. Two units in hygiene (H. & P.E.I. or 2).
 - b. Completion of physical education requirements. (See page 33).
 - c. First Aid (H. & P.E. 10)
6. 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 requirements 1 and 3.

**This course satisfies requirements 1, 2, and 3.

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 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 34 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 141.

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 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. It includes the following subjects: Commerce 1A-1B, 5A-5B-5F, 15-16, 21-22 (or Economics 13-14), 27-28, 29, 41, 42, 45, Law 17-18, 21, H. & P.E. (activity), 1, 10, History 5, Political Science 5 and 6.

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 may 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	-
H. & P.E. 10	-	1	Architecture 5	-	3
English	3	3	H. & P.E. 1	2	-
Electives*	3	3	History 5	-	-
H. & P.E. (Activity) ½	½	½	Political Science 5	2	2
			Political Science 6	-	1
			Electives	2	2
			H. & P.E. (Activity) ½	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, Davis, Los Angeles, and Riverside)

Students wishing to major in any of the various branches of Agriculture may specialize in Agricultural Economics, Agricultural Education and General Agriculture, Animal Science, Entomology and Parasitology, Food Science, Forestry, Home Economics, Irrigation Science, Landscape Architecture, Plant Science, Soil Science, and Veterinary Science. The student should consult the Catalogue of the University of California College of Agriculture for the detailed requirement of each specialty. Many variations exist in the specific courses required, but training in these fields is highly specialized and scientific and leads to a Bachelor of Science degree. In most of the curricula the following courses are required; Chemistry 1-2, Physics 5-6, Mathematics 1-2 (Mathematics 3-4 in some) and courses in Life Science, such as Zoology 1-2, Bacteriology 11, or Botany 1.

California State Polytechnic College offers degree and non-degree curricula in Agricultural Engineering and Mechanics, Animal Husbandry, Dairy Husbandry and Dairy Manufacturing, Field, Fruit, and Truck Crops, Ornamental Horticulture, Poultry Husbandry and Soil Science. Students interested in these programs should consult the Catalog of California State Polytechnic College for details as to requirements.

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		
Aviation 10	5	—	31-32	4	4
Aviation 48	—	3	Psychology 1	—	3
Commerce 21-22 or 5A-5B	4	4	Geography 5	—	3
Commerce 1A-1B	3	3	Aviation 49	3	—
Commerce 29	—	2	Aviation 1	3	—
H. & P.E. 10	—	1	Speech 1 or 3	2-3	—
H. & P.E. (Activity) 1/2	1/2	1/2	H. & P.E. 1	—	2
			Aviation 11-12	2	2
			Electives	—	2
			H. & P.E. (Activity) 1/2	1/2	1/2
Total	15 1/2	16 1/2	Total	14 1/2-15 1/2	16 1/2

AIRLINES HOSTESS

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
English	3	3	Social Science		
Aviation 10	5	—	31-32	4	4
Aviation 1	3	—	Psychology 10-1	2	3
Geography 5	—	3	Aviation 49	3	—
Commerce 1A	—	3	H. & P.E. 1	2	—
Physiology 11	4	—	Commerce 21-22 or 5A-5B	4	4
Home Arts 41	—	3	Speech 1 or 3	—	2-3
Aviation 48	—	3	Electives*	—	2
H. & P.E. 10	—	1	H. & P.E. (Activity) 1/2	1/2	1/2
H. & P.E. (Activity) 1/2	1/2	1/2			
Total	15 1/2	16 1/2	Total	15 1/2	15 1/2-16 1/2

*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	5	—	Aviation 13-4	2	3
Aviation 11-12	2	2	Aviation 14-15	2	3
English	3	3	Aviation 16	—	3
H. & P.E. 1	—	2	Aviation 49-7	3	2
History 5	—	2	Commerce 47-48	2	2
Mathematics 1 or Trade 43	3	—	Political Science 5	2	—
Electives	—	4	Political Science 6	1	—
H. & P.E. (Activity) 1½	—	½	H. & P.E. 10	1	—
			H. & P.E. (Activity) 1½	—	½
Total	16½	16½	Total	16½	16½

Note: The required flight training must be contracted for by the individual student at his expense. The fee is paid direct to the flight operator.

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. (Also, see Apparel Design at U.C.L.A. under "Merchandising," page 56.)

<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) 1½	—	½	Home Arts 23-24	2	2
			H. & P.E. 1-10	2	1
			Electives	2	2
			H. & P.E. (Activity) 1½	—	½
Total	16½	16½	Total	16½	16½

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

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		Units	Second Year		Units
English 1 -			Architecture 23	-	2
Speech 3	3	3	Art 11-12	2	2
History 5	-	2	Political Science		
Architecture 3-5	2	3	5-6	2	1
Art 3 or 43 -			Architecture 11-12	5	5
Art 4	2-3	2	Architecture 17		3
Architecture 9-10	4	4	Trade 45-46	3	2
Art 5-6	2	2	Engineering 11	3	-
Architecture 1* or			H. & P.E. 10-1	1	2
Electives	3-2	-	H. & P.E. (Activity) ½	½	½
H. & P.E. (Activity) ½	½	½			
<hr/>			<hr/>		
Total	15½-16½	16½	Total	16½	17½

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

Recommended: Commerce 1A, Law 17, and Trade 51.

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

Students must enter a five-year School of Architecture to become candidates for the degree. A representative exhibit of work in courses in Art and Architecture along with a statement from the instructors as to the content of the course 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 Art; two years of a foreign language; architectural or mechanical drawing; algebra; geometry; trigonometry, physics or chemistry

University of California, Berkeley, for five-year Bachelor of Architecture Degree: The student must satisfy the lower division requirements of the College of Architecture and include the following subjects: Mathematics 3-4; Physics 5-6; Architecture 3-5, 23; Art 3-4, 11, 25, 5-6; English 1 or Speech 3; Engineering 11; Social Science, 6 units.

Note: All transfers must take a special semester of a required curriculum at Berkeley at semester of entrance except those entering with only one semester of junior college work.

University of Southern California, School of Architecture: The student must satisfy the lower division requirements, including the following subjects: English 1-2; History 7-8; History 5; Political Science 5-6; 6 units in one foreign language (may be completed in high school); H. & P.E. 1.

Required for Major: 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; 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; Physics 5-6 or 1-2-3-4.

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	Units	Second Year	Units
Art 3-4	2 2	Art 1-2	3 3
Art 5-6	2 2	Art 11-12	2 2
Art 7-8	2 2	Art 19-29	2 2
Art 34	1 --	Art 23-24	2 2
Art 35-36	2 2	English 8	2 --
Biology 1	3 --	History 5 - Political	
English 13-14	2 2	Science 5	2 2
H. & P. E. 1	-- 2	Political Science 6	-- 1
Art 25	-- 2	Electives	3 3
Electives	2 2	H. & P. E. 10	-- 1
H. & P. E. (activity) ½	½ ½	H. & P. E. (activity) ½	½ ½
	<hr/> 16½ 16½		<hr/> 16½ 16½

Art 39-40; 41-42 are recommended for students interested in Ceramics.

Students who are interested in industrial design but who have not had mechanical drawing in high school should elect Architecture 1. Recommended: Architecture 3 and Architecture 5.

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 21-22	6	6	Aviation 23-24	6	6
Aviation 49- Engineering 1	3	3	Trade 5- Aviation 10	4	5
Trade 43-H. & P.E. 1	3	2	Commerce 47- Aviation 10	4	5
English or Commerce 15-16	3	3	Political Science 5-6	2	1
History 5	—	2	Elective- H. & P.E. 10	1	1
H. & P.E. (activity)	½	½	H. & P.E. (activity)	½	½
Total	15½ 16½		Total	15½ 16½	

AIRPLANE MAINTENANCE AND REPAIR ("A" license)

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Aviation 25-26	6	6	Aviation 27-28	6	6
Trade 43-44	3	3	Commerce 47- Aviation 10	2	5
English or Commerce 15-16	3	3	Political Science 5 - Aviation 1	2	3
Engineering 1- History 5	3	2	Political Science 6	—	1
H. & P.E. 1	—	2	Elective	4	1
H. & P.E. (activity)	½	½	H. & P.E. 10	1	—
			H. & P.E. (activity)	½	½
Total	15½ 16½		Total	15½ 16½	

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 the College 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. It includes the following subjects: Commerce 1A-1B, 5A-5B, 15-16, 21-22 (or Economics 13-14), 29, 41, 42, 47, 48, Law 17-18, 21, 25, Economics 1-2, H. & P.E. (activity), 1, 10, History 5, Political Science 5 and 6.

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 141), 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 12 or 3-4, 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 142) and be certain to include the following subjects: Economics 1-2, 13-14, Mathematics 12 or Mathematics 3-4, English 1, course 2 (or equivalent) in a foreign language, and one laboratory course in Natural Science at the college level. Geography 5-6 and Law 17 are recommended.

Business Administration (University of Southern California)

The University of Southern California offers curricula in accounting, advertising, business education, commercial aviation, fi-

nance, 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 11-12	3	3
Economics 13-14	4	4	History 7-8	3	3
H. & P.E. 1	-	2	Law 17-18	3	3
Elective	3	-	Political Science 6	1	-
H. & P.E.			H. & P.E. 10	-	1
(activity)	½	½	H. & P.E. (activity)	½	½
Total	15½	14½	Total	16½	16½

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. It includes the following subjects: Commerce 1A-1B, 15-16, 21-22 (or Economics 13-14), 29, 31, 33, 34, 39, 41, 42, 43, 47-48, Law 17-18, Economics 1-2, H. & P.E. (activity), 1, 10, History 5, Political Science 5 and 6.

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. It includes the following subjects: Commerce 1A-1B, 15-16, 21-22 (or Economics 13-14), 29, 31, 32, 33, 34, 39, 42, 43, 47-48, Law 17-18, Economics 1-2, H. & P.E. (activity), 1, 10, History 5, Political Science 5 and 6.

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
H. & P.E. 10	1	--	H. & P.E. (activity)	½	½
Trade 43	--	3			
H. & P.E. (activity)	½	½			
Total	15½	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	5	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*	--	2	Physics 3-4	3	3
History 5	--	2	H. & P.E. 10*	--	1
H. & P.E. (activity)	½	½	Political Science 5-6	2	1
			H. & P.E. (activity)	½	½
Total	16½	18½	Total	18½	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 10 and take History 5 and Political Science 5 when convenient.

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. It includes the following subjects: Commerce 1A-1B-1C-1D, 5A-5B, 15-16, 21-22, 29, 45, Law 31, Social Science 31-32, H. & P.E. (activity), 1, 10, and electives of 8 units.

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	Home Arts 47-48	10
Commerce 15-16	3	History 5 -	
Home Arts 33	--	Political Science 5	2
Art 3 or 43	2-3	Theater Arts 9	--
Art 21	--	Commerce 29	2
Physiology 11	--	H. & P.E. 1-10	2
H. & P.E. (activity) ½	½	Political Science 6	--
		Elective	1
		H. & P.E. (activity) ½	½
Total 14½-15½		Total 16½ 16½	

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

Dental Hygienist

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 may complete the two-year Pre-Dental Hygienist curriculum at Glendale College and then transfer for the remaining two years either to the University of California (San Francisco) or to the University of Southern California. Requirements vary, so students are urged to consult the catalog of the institution to which they wish to transfer. For the College of Dentistry at San Francisco, Chemistry 1-2, 5-6, and either Physics 5-6 or Zoology 1-2 should be included.

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

Those wishing to enter the College of Dentistry must have completed 60 units of required college study including general University and specific requirements as follows:

1. General requirements
 - English—Subject A. Students completing English 1 in Glendale College with grade of "C" or better satisfy this requirement.
 - American History and Institutions (required for the bachelor's degree)
 - Military Science and Tactics (men). A student completing 60 units of transfer work in a junior college is exempt this requirement.
2. English 1-2 or Speech 3-4
3. Science
 - a. Chemistry 1-2 (Inorganic)
Chemistry 5 (Organic)
Chemistry 3 (Quantitative Analysis) or Chemistry 6 (Organic)
 - b. Physics 5-6 or 1-2-3-4
 - c. Zoology 1-2
4. Trigonometry—Mathematics 2 or the completion of trigonometry in high school.
5. Electives selected as indicated from the following groups:
 - Group I: Two year courses selected from the following:
 - Economics 1-2
 - Geography 1-2, 5-6
 - History 1-2, 3-4, 17-18
 - Mathematics 8, 12, 3-4
 - Political Science 1-2
 - Psychology 1-2
 - Sociology 1-2
 - Group II: One of the following:
 - English 5-6
 - Music 3-4
 - Philosophy 1-2

Any two semesters of a foreign language in which at least 6 units have previously been completed.

Notes: Students planning to transfer to the University of Southern California School of Dentistry should consult the catalog of that school 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	4	—
Trade 45-46	3	2	Trade 17-5	4	4
Engineering 3	—	2	History 5 -		
English or Commerce 15-16	3	3	Political Science 5	2	2
H. & P.E. 10	1	—	H. & P.E. 1	—	2
H. & P.E. (activity)	½	½	Commerce 47-48 or Commerce 33	2	2
			Political Science 6	—	1
			H. & P.E. (activity)	½	½
Total	16½	16½	Total	18½	17½

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 Arts 1	2	—	H. & P.E. 1-10	2	1
Theater Arts 3-4	2	2	Social Science 31-32	4	4
Theater Arts 21	—	2	Theater Arts 5-6	2	3
Theater Arts 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	16½

*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 and Economics 40 is recommended.

Electrical Technician

See Radio and Television Servicing.

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, 11-12. Mathematics 3, 4, 5, 6, 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, University of California)

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.

Forestry

At the University of California forestry is included in the College of Agriculture, but this is not true in all colleges. Students must consult the catalog of the institution to which they wish to transfer for the specific requirements of the institution in which they are interested. In general the basic program for the first two years will include: Chemistry 1-2, 5-6, Engineering 11-12, Mathematics 3-4, Geology 1, Biology 1, Botany 1, and Physics 5-6.

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 Catalogue 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 for the College 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 curriculum for engineering given above. Those electing geophysics should consult the University of California Catalogue. Those majoring in geology in the College of Letters and Science should fulfill the lower division requirements on page 141, 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.

One-year Course

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Home Arts 11 or 10	3	Home Arts 12	3
Home Arts 21	3	Home Arts 22	3
Home Arts 31	3	Home Arts 35	3
Art 43	3	H. & P.E. 1	2
Home Arts 39	3	Home Arts 29	2
H. & P.E. (activity)	½	Home Arts 33	2
		H. & P.E. (activity)	½
	<hr/>		<hr/>
Total	15½	Total	15½

<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 or 10-12	3	3	Home Arts 31-33	3	2
Home Arts 21-22	3	3	Home Arts 35	2	--
Home Arts 3	--	2	Home Arts 29	--	3
**Art 3-4	2	2	H. & P.E. 1-10	2	1
Home Arts 37	2	--	Home Arts 15-16	2	2
Commerce 45	--	2	History 5 -		
English	3	3	Political Science 5	2	2
H. & P.E. (activity)	½	½	Psychology 1 -		
			Political Science 6	3	1
			Electives*	2	3
			H. & P.E. (activity)		½ ½
Total	16½ 15½		Total	16½ 16½	

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

**Art 43 may be substituted for Art 3

Home Economics (College of Applied Arts at U.C.L.A.; professional departments of the State Colleges)

College graduates in home economics are in demand as hospital dietitians, specialists in governmental and industrial technical research, department store personnel in textiles and clothing, and as teachers.

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, University of California at Los Angeles or of a State College, and include the following required subjects:

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

General Home Economics; Required: H.A. 11, 21, 31, 39; Art 3 or 43 - 13; Chemistry 1.

Home Economics Teacher Education; H.A. 10 or 11, 21, 31, 39; Art 3 or 43 - 13; Chemistry 1-2 and 5 or 10 and 15; Psychology 1-2; Zoology 1.

Majors in Clothing and Textiles; H.A. 10 or 11, 21, 31, 39; Art 3 or 43 - 4, Art 13; Chemistry 1-2 and 5 or Chemistry 10 and 15; Economics 1-2.

Majors in Foods and Nutrition; H.A. 10 or 11, 21, 31, 39; Bacteriology 1; Chemistry 1-2 and 5 or 10 and 15; Economics 1-2 and 13; Psychology 1-2; Zoology 1; English 1-2 or Speech 3-4.

Majors in Food Technology; H.A. 10 or 11, 21, 31, 39; Bacteriology 1; Chemistry 1-2 and 5 or 10 and 15; Economics 1-2; Physics 5; Psychology 1-2; Zoology 1; Recommended: Math 1.

Los Angeles State College

Required: H.A. 10 or 11; H.A. 21-22; H.A. 25; H.A. 37; Art 3 or 43 and 4.

Recommended: H.A. 12-H.A. 29, H.A. 31, H.A. 39.

Industrial Arts

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. At present programs in industrial arts education leading to degrees and fulfilling credential requirements are offered at the University of California (Santa Barbara College), Fresno State College, and San Jose State College. The catalogs of these particular colleges should be consulted for details of requirements.

Insurance

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

In the following insurance curriculum, attention to 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.

The insurance curriculum includes the following subjects: Commerce 1A-1B, 15-16, 21-22 (or Economics 13-14), 29, 31, 33, 39, 41, 43, 47-48, Law 17-18, 23, Economics 1-2, H. & P.E. (activity) 1, 10, History 5, Political Science 5 and 6.

International Relations (College of Letters and Science University of California)

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. Fluency in one foreign language is essential. Two foreign languages are recommended. Geography and accounting are of particular value.

Journalism (College of Letters and Science)

Majors in this field should follow the lower division requirements of the College 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.

Laboratory Assistant

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

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Chemistry 41	5	Bacteriology 11	4
Anatomy 11	4	Physiology 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		Total
	16½		15½

This course presupposes high school preparation which includes English, plane geometry, trigonometry and chemistry. Anatomy 11 and Physiology 11 may be interchanged in above schedule. (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

- (1) after earning the A.B. degree
- (2) upon completion of 90 units of work toward the A.B. degree
- (3) upon completion of 60 units of work toward the A.B. degree

All law schools recommend as broad a background as possible and prefer students to have earned the A.B. degree before seeking admission. The catalog of the school of law which the student wishes to attend should be checked to determine its entrance requirements.

In any case the requirements of the first two years of college work are practically the same. A background knowledge of history, economics, and current political and social theories and a thorough training in English expression are required.

History 1-2, or History 7-8.

Economics 1-2

Political Science 1-2

English 1-2

Speech 3

Courses recommended in addition to the above are accounting, mathematics, science, psychology, philosophy, and a foreign language.

Librarian (School of Librarianship—University of California, Berkeley)

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 college year in each of two modern foreign languages, preferably French and German. Ability to use the typewriter with accuracy and a fair degree of speed is expected. One year of training beyond the bachelor's degree leads to the Bachelor of Library Science and two years training to the Master of Library Science.

The requirements of other schools of librarianship will vary somewhat from the above pattern. Students should consult the catalog of the particular school of librarianship for details of requirements.

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	4	4
Engineering 1-2	3	3	Social Science 31-32	4	4
H. & P.E. 10	-	1	H. & P.E. 1	-	2
H. & P.E. (activity)	½	½	H. & P.E. (activity)	½	½
Total	15½	16½	Total	17½	18½

Mathematics (College of Letters and Science)

Students wishing to major in mathematics should follow the lower division requirements of the College 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.

Medical Technician

The University of California (Berkeley) School of Medicine offers a one-year (48 weeks) full-time training program to students preparing to be medical technicians. The training covers biochemistry, medical bacteriology, parasitology, mycology, histologi-

cal technic, clinical pathology, serology, blood bank procedures, basal metabolism, and electro-cardiography. To be admitted to this training program students must either have a bachelor's degree, including a major in one of the biological sciences with courses in advanced bacteriology and advanced general microbiology, or have completed three years of a regulation curriculum in medical or clinical laboratory technic which must have included courses in biochemistry and advanced bacteriology. In the latter case applicants will not be considered unless the college attended shall grant a bachelor's degree to them upon satisfactory completion of the four-year curriculum. Students should consult the Catalogue of the University of California for details of this program.

Students who are not interested in this type of program but who wish training in laboratory work may find the one-year curriculum at Glendale College under a Laboratory Assistant or the program of the University of California (Berkeley) School of Public Health with a major in Laboratory (Public Health and Clinical) of interest to them.

Medicine (University of California)

To meet requirements for admission to the University of California School of Medicine the student must have attained senior standing in the premedical curriculum in the College of Letters and Science. 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 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 Catalogue for courses which must be completed in the three years of premedical 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; Art 3 or 43, Art 4, 5, 7, 13; Economics 1-2.

Recommended: Home Arts 12.

Apparel Merchandising, Required: Home Arts 11; Art 3 or 43, Art 4, Art 13; Economics 1-2, and 13.

Recommended: Home Arts 12.

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 should complete the requirements of the lower division of the College of Letters and Science, including the following subjects:

Required: Art 3-4.

Recommended: Art 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.

First Year	Units		Second Year	Units	
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 or			History 5 -		
Com. 15-16	3	3	Political Science 5	2	2
Elective	—	2	Commerce 47	2	—
H. & P.E. 10	—	1	Political Science 6	—	1
H. & P.E. (activity) ½	½	½	Trade 17	—	4
			H. & P.E. (activity) ½	½	½
Total	15½	17½	Total	15½	15½

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 make most probable 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 Commerce 15-16	3	3	Social Science 31-32	4	4
H. & P.E. 1	—	2	Commerce 47-48	2	2
Engineering 1-3	3	2	Electives	2	2
Electives	2		H. & P.E. (activity)	½	½
H. & P.E. 10	—	1			
H. & P.E. (activity)	½	½			
Total	16½	16½	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 their 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 Choral Classes	2	2	Political Science 5	2	2
French or German	4	4	Music 25-26	2	2
H. & P.E. (activity)	½	½	Theater Arts 1-2	2	3
			Philosophy 1 -		
			H. & P.E. 10	3	1
			English-H. & P.E. 1	2	2
			Political Science 6	—	1
			H. & P.E. (activity)	½	½
Total	16½	16½	Total	15½	15½

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	2	2
Music 31-32 or 41-42	1	1	History 5 - Political Science 5	2	2
H. & P.E. 1-10	2	1	English - Political Science 6	2	1
Electives*	3	4	Electives*	6	7
H. & P.E. (activity) ½	½	½	H. & P.E. (activity) ½	½	½
Total	16½	16½	Total	16½	16½

*Recommended electives: History 7-8, Art 1-2, foreign language, literature, science, Music 69, 70, 71, 72, or 73.

PUBLIC SCHOOL TEACHING

The *kindergarten-primary* credential requires the ability to play the piano and sing a simple song. The *general elementary credential* requires the ability to sing a simple song. A minor in music is strongly recommended for both credentials, including the following courses:

Music 1-2, 3, 69-70-71-72, 21-22, 11-12.

Students who wish to work toward a *public school music major* with special secondary credential and an A.B. degree from a state college, should complete the lower division requirements of the state college of their choice, including the following music courses:

Music 1-2, 3-4, 5-6, and one major and one activity from the following: 21-22, 69-70-71-72, 11-12-13-14, 15-16-17-18, 31-32-33-34, 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 of the college of their choice. The following required and recommended subjects should be included:

University of California, Berkeley

Required: Music 1-2, 3-4, 5-6, ability to play the piano*.
(An examination in piano is required of all entering students.)

Recommended: Reading ability in French, German or Italian.

University of California, Los Angeles (College of Applied Arts or Letters and Science)

Required: The Basic Music Test and the Sight Reading Test (Piano) required of all entering students, or Advanced Standing Examinations in Musicianship, Harmony, Voice, and Piano required of students entering above beginning level. Music 1-2, 3-4, 5-6, and 2 units in one of the following: Music 11-12, 15-16, 31-32, 41-42, 49-50. The Special Secondary Teaching Credential requires 4 units in Piano and Music 21-22 in addition to the above.

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

University of Southern California

Required: Placement test in Harmony and Solfeggio for all entering students. Music Education majors must take entrance examinations in musical aptitude, piano and voice and be able to play on the piano and sing simple songs. Music 1-2, 3-4, 5-6, 2 units in one of the following: Music 11-12, 15-16, 31-32, 41-42, 49-50. Science requirement should be met.

Recommended: Physics 5-6 or 10 or a Biological Science.

University of Redlands

Required: Music 1-2, 3-4, 5-6. Voice majors require French 1 and German 1-2 or German 1 and French 1-2, ability to play the piano* moderately well.

Occidental College

Required: Music 5-6, elementary knowledge of the piano*

Pomona College

Required: Music 1-2, 5-6.

*Recommended: Music 69-70-71-72.

Nursing

Students wishing to enter the School of Nursing at the University of California at Berkeley should complete the following program. It 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 10	5	—	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	3
H. & P.E. (activity) ½	½	½	Political Science 6	—	1
			H. & P.E. 10	—	1
			H. & P.E. (activity) ½	½	½
Total	15½	16½	Total	16½	17½

*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.

	<i>Units</i>	
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
Total	16½	16½

Recommended: Home Arts 25.

Vocational Nursing—See write-up under Vocational Nursing.

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.

Nursing—Vocational

The vocational nursing course is a twelve-month nurses' training course streamlined to meet the current needs of the hospital and the community. It is part of a newly inaugurated, statewide program governed by the Board of Vocational Nurse Examiners, Sacramento. Although the vocational nurse is a new member of the nursing

team, she is already in demand on hospital staffs, in doctors' offices, and for private duty nursing. A certificate is awarded by the College upon the satisfactory completion of the course; also, this year counts toward the requirements for the Associate in Arts degree.

The first semester is given at the College, and the second semester (7½ months) is spent in clinical training at the Glendale Sanitarium under the supervision and instruction of qualified nurse-teachers. The first semester includes Anatomy 11 or Physiology 11, H. & P.E. 1, Bacteriology 11, and Nursing Arts 1 (given at Glendale Sanitarium). The second semester, a clinical period (32 weeks) spent at the hospital, consists of 40 hours a week in nursing practice, ward teaching, and special lectures and classes in medical, surgical, obstetrical and pediatric nursing. Two weeks' vacation will be allowed during this period.

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.*

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Chemistry 1-2	5	5	Physics 5-6	4	4
Foreign Language	4	4	Mathematics 3	--	5
English 1 - Speech 3	3	3	Chemistry 5	3	--
Anatomy 11			Psychology 1-2	3	3
Bacteriology 11	4	4	History 17-18	3	3
H. & P.E. (activity) ½	½	½	H. & P.E. 10	1	--
			H. & P.E. 1	2	--
			Political Science 6	--	1
			H. & P.E. (activity) ½	½	½
Total	16½	16½	Total	16½	16½

*Note: A student transferring to the Los Angeles College of Optometry should study its catalog and then confer with his counselor.

Office Work

See Clerical Work

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 com-

pletion 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, 5-6, English 1-2, French, German or Spanish 1-2, 3, Physics 5-6, Psychology 1, Social Science—3 units, Zoology 1-2. Electives chosen from the following: anatomy, history, literature, mathematics, philosophy, public speaking, and sociology.

Pharmacy

Students planning to secure the Bachelor of Science degree in pharmacy must complete one year of prepharmacy and four years in residence in the College of Pharmacy (University of California). To be admitted to the College of Pharmacy, students must have satisfied the requirements for admission to the academic colleges of the University and must have completed in the University of California or in another institution of approved standing, and with an average grade of "C" or better, at least 30 units of prepharmacy studies. Students should consult the Catalogue of the College of Pharmacy of the University of California for detailed 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. 1-10	2	1
English	3	3	Electives**	9	10
Social Science 31-32	4	4	H. & P.E. (activity)	½	½
Electives*	4	4			
H. & P.E. (activity)	½	½			
	<hr/>			<hr/>	
Total	16½	16½	Total	16½	16½

*Chemistry 10 is recommended.

**Physics 5-6 and Art 3-4, 31, Photography 7-8 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 10	5	--	Psychology 1-2	3	3
H. & P.E. 2	--	3	Physiology 11	4	--
H.A. 25	2	--	Anatomy 11	--	4
English 1-2 or Speech 3-4	3	3	Year Course (Minor or elective)	3	3
Music 3-4	3	3	History 17-18	3	3
H. & P.E. (2 activity classes)	1	1	Political Science 6	--	1
H. & P.E. 10	--	1	Electives	2	1
Electives (minor)	3	3	H. & P.E. (2 activity classes)	1	1
Total	16	14	Total	16	16

Physical Therapy

Physical Therapy is the treatment of disease by non-medical means. Such treatments involve massage, exercise, and the use of physical, chemical, and other properties of light, heat, water, and certain forms of electricity. 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 10	--	5	Physics 5-6	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. 1-10	2	1	Political Science 6	--	1
Electives	--	3	Chemistry 15	3	--
H. & P.E. (activity) ½	½	½	Electives	4	2
			H. & P.E. (activity) ½	½	½
Total	16½	16½	Total	16½	16½

Physics (College of Letters and Science)

Students planning to major in physics should follow the lower division requirements of the College 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 8.

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 the College of Letters and Science. The following required and recommended subjects should be included:

U.C. (Berkeley):

Required: Political Science 1-2; Economics 1-2; and either History 1-2 or 17-18.

Recommended: History 3-4; Sociology 1-2; Philosophy 1-2; Geography 1-2; or Psychology 1-2.

U.C.L.A.

Required: Political Science 1-2; and 3 units from the following: Economics 1-2; Geography 1-2; History 1-2, 3-4, 17-18; or Philosophy 1-2.

Recommended: Additional courses from those listed above.

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

The lower division requirements of the College 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, sociology, and economics.

At U.C.L.A.:

Required: Psychology 1-2.

Recommended: Zoology, mathematics, sociology, chemistry, physics.

Public Health (School of Public Health—University of California, Berkeley)

The School of Public Health offers work in majors of Laboratory (Public Health and Clinical), Preadministration, Public Health Education, Public Health Sanitation, and Biostatistics. Students preparing for any of these majors should take Chemistry 1, Zoology 1, Psychology 1, at least 6 units from English 1-2 or Speech 3-4, and 6 units from Economics 1-2, Geography 1-2, or Mathematics 3-4. Each major has, in addition to these, certain subjects that must be completed for the particular major. The student should consult the University of California Catalog for these particular requirements.

Radio and Television Servicing

This course of study provides training in the repair, servicing, and manufacturing of all types of radio, television and electronic equipment and devices. The training prepares for employment in radio and television repair and service shops; and as an electronic technician in companies that manufacture, install or service electronic equipment or devices. Specialization is done in the second year of training.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 71-72	6	6	Trade 73-74	6	6
Engineering 1	3	—	Social Science 31-32	4	4
English or			Trade 45-46	3	2
Commerce 15-16	3	3	Commerce 47-32	2	3
Trade 43-44	3	3	H. & P.E. (activity) ½	½	½
H. & P.E. 1	—	2			
H. & P.E. 10	—	1			
H. & P.E. (activity) ½	½	½			
Total	15½	15½	Total	15½	15½

Real Estate

Many job opportunities exist in the larger real estate offices, title companies, in 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 upon 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. For details regarding the examination, address: State of California, Division of Real Estate, Sacramento, California. Hubert B. Scudder, Commissioner.

The curriculum suggested provides a wide general education in business administration as well as basic training in the specialty. It includes the following subjects: Commerce 1A-1B, 15-16, 21-22 (or Economics 13-14), 29, 33, 34, 39, 43, 47-48, Law 17-18, 23, 25, Economics 1-2, H. & P.E. (activity), 1, 10, History 5, Political Science 5, 6, and 3 units electives.

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. It includes the following courses: Commerce 1A-1B, 15-16, 21-22 (or Economics 13-14), 29, 31, 32, 33, 34, 47-48, Law 17-18, H. & P.E. (activity), 1, 10, Social Science 31-32, and 4 units electives.

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. It includes the following courses: Commerce 1A-1B, 1C-1D, 3A-3B, 3C-3D, 5A-5B, 15-16, 21-22 (or Economics 13-14), 29, 45, Law 31, H. & P.E. (activity), 1, 10, History 5, Political Science 5 and 6.

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 College of 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, and Economics 40.

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 institution 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 institution 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 and required 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 choosing teaching as a life career will find it advantageous to work for a general secondary rather than a special secondary credential. The latter greatly limits their usefulness to a prospective employer and therefore reduces their chances of possible employment.

D. Emergency Credentials.

The state of California may issue 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 certified teacher is available. The number of such credentials issued is not very great and exists largely on the elementary level.

Technical Illustration (Production Illustration)

The field of technical illustration lies midway between drafting and advertising art, and entails the preparation of drawings showing the appearance and operation of manufactured articles. The

pictures are used in the manuals and catalogs of manufacturers of mechanical devices. Technical illustration is not a new field but is now expanding enormously. This curriculum is designed to equip the student with the drawing ability, the technical knowledge, and the appreciation for sound method that characterize the successful technical illustrator.

<i>First Year</i>	<i>Units</i>		<i>Second Year</i>	<i>Units</i>	
Trade 65-66	6	6	Trade 67-68	6	6
Art 5-6	2	2	Art 35-36	2	2
Engineering 3	--	2	Architecture 23	2	--
English or Commerce 15-16	3	3	Political Science 6	--	1
History 5 -			H. & P.E. 1	--	2
Political Science 5	2	2	H. & P.E. 10	--	1
Elective	2	--	Electives	5	3
H. & P.E. (activity)	$\frac{1}{2}$	$\frac{1}{2}$	H. & P.E. (activity)	$\frac{1}{2}$	$\frac{1}{2}$
Total	15$\frac{1}{2}$	15$\frac{1}{2}$	Total	15$\frac{1}{2}$	15$\frac{1}{2}$

Veterinary Medicine

The School of Veterinary Medicine of the University of California (Davis) offers a curriculum of four years, based upon a two-year Preveterinary program, which can be completed at Glendale College. Students wishing to transfer to other veterinary schools in the United States must consult the catalog of the particular college in which they are interested. In general the preveterinary programs closely parallel regular pre-medical programs.

Zoology (College of Letters and Science)

Students planning to major in this field should follow the lower division requirements of the College 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.

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 parenthesis 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 College 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.

ACCOUNTING

Principles of Accounting

See Economics 13-14.

Bookkeeping

See Commerce 21-22.

Applied Accounting

See Commerce 27-28.

ANATOMY

11 Introductory Anatomy (4)

Prerequisite: Two semesters of laboratory science taken in the 11th or 12th grade or a science course taken in college.

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 two 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.

Training in the use of instruments and in the fundamentals prerequisite to work in art and architecture.

3 Descriptive Geometry (2)

Prerequisite: One year of architectural or mechanical drawing in high school, Architecture 1, or Engineering 1.

Note: Required for architectural majors.

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

5 Perspective (3)

Prerequisite: Architecture 3, Art 43 or Art 3, 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: 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, sources of supply and costs.

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, fiberglas) 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 survey of architecture, sculpture, painting and its development from 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 the 10th, 11th or 12th grade in high school, not including crafts.

Prerequisite for 4: Art 3 or Art 43.

Note: Students without one year of art training exclusive of crafts 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, mass, volume 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 includes 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

Quick sketch in a variety of media—chalk, pencil, charcoal, conti crayon, ink, with pen, brush and stick. Emphasis on generalizing and contour drawing. Half hour and one hour studies of proportions and relationships of the figure masses. Expressiveness stressed. Three dimensional diagraming of the figure in action.



Home Arts - - - Photo Laboratory





Physical Education



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.)

A study of the watercolor medium and techniques. The problems of painting are resolved with a regard for the special qualities of watercolor. Many class problems are slanted toward the use of this medium in the various fields of interest.

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

Prerequisite for 13: Art 43 or at least one year of art training (not including crafts) in the 10th, 11th, or 12th grade 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 offered in 1954-55.

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.

Not to be offered in 1954-55.

23-24 Silk Screen Printing (2-2)

Prerequisite for 23: None

Prerequisite for 24: Art 23

Note: Art 43 recommended for students without previous art training. The student may earn 1 or 2 units each semester, with a maximum of 4 units total for both parts, the hours and number of units to be determined at time of registration.

Various techniques of silk screen stencil 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 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)

Prerequisites: 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 magazine and newspaper illustration, fine arts expression and architectural rendering.

29 Composition (2)

Prerequisites: 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. 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 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.

Not to be offered in 1954-55.

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.

Not to be offered in 1954-55.

34 Lettering (1)

Prerequisite: None.

Note: Recommended for all art majors as a foundation for more advanced work in the 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 or 43 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 design; roughs, layouts, comprehensives to finished work. Lectures on typography and methods of reproduction. Problems adapting lettering to packaging, posters, 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, newspapers, magazines, posters, etc. Black and white to full color. 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. The student may earn 1 or 2 units each semester with a maximum of 4 units a year, with the hours and number of units to be determined at time of registration.

Art 39 is a comprehensive introductory study of ceramics to include: A study of clay and clay bodies, methods of forming clay (including wheel throwing) firing, glazing and decorating techniques, mold making and slip casting. There is in Art 40 continuing study in all areas. A more intensive study of clay bodies, glazes and throwing on the potters wheel.

41-42 Advanced Ceramics (2-2)

Prerequisite for Art 41: Art 40

Prerequisite for Art 42: Art 41

Note: The student may earn 1 or 2 units each semester, with a maximum of 4 units a year, the hours and number of units to be determined at time of registration.

Art 41 is the general study continued. Intensive research and practice in areas of individual interest. Introduction to ceramic sculpture. In Art 42 there is advanced independent study and practice in areas of individual interest.

43 Elementary Design and Drawing (3)

Prerequisite: None

Note: For students who have had less than one year of art training in high school, this course may be substituted for Art 3. Students who have had one year or more of art training exclusive of crafts in the 10th, 11th, or 12th grade in high school should take Art 3. They may not register in Art 43 for more than 2 units credit. Students having credit in Art 3 may not register in Art 43 for credit.

A beginning course in 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.

Probably not to be offered in 1954-55.

47-48 Jewelry and Gem Cutting (2-2)

Prerequisite for 47: None

Prerequisite for 48: Art 47

Use and knowledge of tools, equipment, and various precious and semi-precious metals, such as gold, silver, stainless steel, copper, brass, etc. Cutting, grinding and polishing of precious and semi-precious stones, and the lost wax process are included. Emphasis is placed on learning to design original articles, among which are earrings, rings, brooches, necklaces, pins, locket, cuff links, tie clasps, planters, lamps and trays.

49-50 Advanced Jewelry and Gem Cutting (2-2)

Prerequisite for 49: Art 48

Prerequisite for 50: Art 49

Advanced study of and uses of precious metals and gems. Gem cutting of precious and semi-precious stones, emphasizing faceting cutting; identification of stones; plating; wax pattern duplication; precision investment casting.

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. The required flight training must be contracted for by the individual student at his expense. The fee is paid direct to the flight operator.

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.

Note: The required flight training must be contracted for by the individual student at his expense. The fee is paid direct to the flight operator.

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.

Note: The required flight training must be contracted for by the individual student at his expense. The fee is paid direct to the flight operator.

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.

Note: The required flight training must be contracted for by the individual student at his expense. The fee is paid direct to the flight operator.

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 actual-ly piloting a plane. Students are individually scheduled for this training.

7 Multi-Engine Rating Course (2)

Prerequisite: Aviation 1 or a Private Pilot License.

Note: The required flight training must be contracted for by the individual student at his expense. The fee is paid direct to the flight operator.

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 (5)

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 of weather maps. Approved C.A.A. Basic Ground School for Private Pilot License No. 7001.

11 Navigation (2)

Prerequisite: None

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 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 includes 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. It 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 (See Note)

Prerequisite: None

Note: One unit of credit is granted for each 45 hours of class and laboratory work. Limit 6 units.

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.

21-22-23-24 Aircraft Engine Overhaul and Maintenance (6-6-6-6)

Prerequisite for 21: None

Prerequisite for 22: None

Prerequisite for 23: None

Prerequisites for 24: Aviation 21-22-23, completed or being taken concurrently.

A vocational program in four semesters leading to the C.A.A. Engine Mechanics Rating. The units of work are as follows:

- 21 Engine theory, magnetic inspection and beginning engine shop. Lubricants, lubrication systems, powerplant lubrication and intermediate engine shop.
- 22 Weight and balance and advanced engine shop. Ignition and electricity, batteries, electric motors and battery charging systems. Shop work.
- 23 Carburetion, carburetors and fuel systems. Flight line maintenance, trouble shooting, test stand and shop work.
- 24 Propellers and propeller governors. Civil Air Regulations, line maintenance, test stand work and general review.

Five three-hour periods per week combining theory and practical shop work. The course is based on standards required for C.A.A. certificated schools. Employed aviation mechanics may take individual units of Aviation 21-22-23-24. Approved C.A.A. Mechanics School No. 3415.

25-26-27-28 Airplane Maintenance and Repair (6-6-6-6)

Prerequisite for 25: None

Prerequisite for 26: None

Prerequisite for 27: None

Prerequisites for 28: Aviation 25-26-27, completed or being taken concurrently.

A vocational program in four semesters leading to the C.A.A. Aircraft Mechanics Rating. The units of work are as follows:

- 25 Aircraft woodwork, fabric and skin, nomenclature, fuel systems and shop practice.
- 26 Welding and heat treating, hydraulic systems, pressure instruments, aircraft appliances.
- 27 Sheet metal and riveting, electrical systems, electrical instruments, and aircraft radio.
- 28 Theory of flight, rigging, weight and balance, inspection, Civil Air Regulations, and shop work.

Five three-hour periods per week combining theory and practical shop work. The courses are based on standards required for C.A.A. certificated schools. Employed aviation mechanics may take individual units of Aviation 25-26-27-28. Approved C.A.A. Mechanics School No. 3415.

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.

Note: Students may register late providing vacancies exist in class. Partial credit at rate of 1 unit for each 45 hours of class and laboratory work given those unable to complete all work of course.

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, flight control, weight and balance, and panel operation.

33-34 Aircraft Engine Overhaul and Maintenance (See Note)

Prerequisite for 33: None

Prerequisite for 34: Aviation 33

Note: One unit of credit is granted for each 45 hours of class and laboratory work. Limit 24 units in combined work of Aviation 33 and 34.

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 (See Note)

Prerequisite for 35: None

Prerequisite for 36: Aviation 35

Note: One unit of credit is granted for each 45 hours of class and laboratory work. Limit 24 units in combined work of Aviation 35 and 36.

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.

41 Fundamentals of Aircraft Instrument Repair (5)

Prerequisite: None

The course provides basic vocational training in aircraft instrument repair. Intensive instruction will be given in basic design, fundamentals of operation, principles of repair, precision calibration, testing, and servicing.

48 Introduction to the Air Age (3)

Prerequisite: None

This is a survey type course designed to provide an intelligent understanding of the political, economic, and social implications of the expansion of aviation. It includes a brief aeronautical history and organization and job classifications within the aviation industry.

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, of advertising, and of public relations stressed.

BACTERIOLOGY

11 Introductory Bacteriology (4)

Prerequisite: Any one of the following: Physiology 11, Biology 1, Chemistry 1, 10 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)

Prerequisites 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. Chemistry in high school is recommended for one of the two.

Prerequisite for 2: Chemistry 1

A course in fundamental chemistry designed to set forth 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

Prerequisite for 4: Chemistry 3

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

Prerequisite for 6: Chemistry 5

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.

10 Elements of General Chemistry (5)

Prerequisites: Mathematics 41 or one year of algebra in high school and Mathematics 40 or one year of plane geometry in high school and a satisfactory grade in the Chemistry Aptitude Test.

A basic 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. Four hours of lecture with one three-hour laboratory period each week.

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

Prerequisite for 15: Chemistry 1 or 10

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

Note: Recommended for nurses, home economics and physical education majors and pre-optometry students.

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.

17 Radiological Defense (2)

Prerequisite: Previous training in physics and/or chemistry.

The principal aim of the course is to develop the ability to use the instruments which measure nuclear radiations. As much background material as possible will be offered. This will deal with the biological effects of these radiations, the health hazards, methods of protection, and the operation of the Civil Defense Service.

41 Introductory General Chemistry (5)

Prerequisite: A satisfactory grade in the Chemistry Aptitude Test.

Note: Recommended as a foundation course for either Chemistry 10 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. A modified form of this course is sometimes offered in the evening for 3 units credit.

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: One semester of chemistry in college or one year of chemistry in high school.

Prerequisite for 46: Same as for Chemistry 45.

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)

Prerequisite for 47: One semester of chemistry in college or one year of 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, arranged to suit the student's needs.

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.

Note: Commerce 15 or English 1 should precede or be taken concurrently.

An intensive course in shorthand covering theory and transcription. Fundamentals of shorthand are mastered and a minimum skill of 60 words a minute is developed in taking dictation.

3B Intermediate Shorthand (5)

Prerequisite: Commerce 3A or one year of shorthand in high school with the ability to take dictation at the rate of 60 words a minute. A typing speed of 60 words a minute or typing taken concurrently.

Note: Commerce 15 or English 1 should precede or be 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. A minimum skill of 80 words a minute in taking dictation is developed.

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: Commerce 1C or a typing speed of 50 words a minute or typing taken concurrently.

Prerequisite for 5B: Same as for 5A.

Note: Commerce 15 or English 1 should precede or be taken concurrently.

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.

5E PBX (3)

Prerequisite: Commerce 5A or 5B taken concurrently. Registration by special arrangement.

An introduction to switchboard operation; not less than nine hours per week.

5F Machine Bookkeeping (3)

Prerequisites: Commerce 5A or 5B taken concurrently; Commerce 21 or Economics 13. Registration by special arrangement. Intensive courses of not less than nine hours per week to develop a saleable skill in machine bookkeeping.

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 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.

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.

25A-B Office Practice (2-2)

Prerequisite for 25A: Ability to use typewriter.

Prerequisite for 25B: Same as for 25A.

An evening course similar to but less comprehensive than Commerce 5A-B. See that course for description.

25G Stenotype (2)

Prerequisite: Ability to use the typewriter.

An evening class to develop a saleable skill in writing on and transcribing from a stenotype machine.

27-28 Applied Accounting (3-3)

Prerequisite for 27: Commerce 21, Economics 13, or one year of bookkeeping in high school.

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 accounts; 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 here are 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.

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 Cooperative 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.

Not to be offered in 1954-55.

39 Insurance Principles (3)

Prerequisite: None

A course giving full consideration to the major topics of fire, marine, casualty, and life insurance. Attention is also given to all other types of insurance, as well as the regulation of the insurance business in California.

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.

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 organizations, 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.

53 Salesmanship (2)

Prerequisite: None

An evening course similar to Commerce 33. See that course for description.

71 Business Administration (2)

Prerequisite: None

This evening course survey acquaints the student with the various phases of business, including forms of business organization, finance, personnel problems, marketing, managerial aids, and business-government relations.

73 Personnel Management (2)

Prerequisite: None

This evening course covers the functions and methods of the personnel department and a consideration of the principles involved in effective personnel control.

75 Labor Relations (2)

Prerequisite: None

This evening course covers unions and their relationship to business enterprises; employee selection, training, rating, promotion, discharge, hours of work and method of payment; the handling of personnel problems; diagnosing organizational stability and employee services and programs.

77A-B Legal Secretary Training (2-2)

Prerequisite to 77A: Knowledge of stenography.

Prerequisite to 77B: Commerce 77A

An evening course in which training is offered in development of legal vocabulary; correct technique in handling legal forms; law office procedure including filing, recording, calendar, receiving callers, recording progress of cases, preparation and handling of pleadings and necessary forms. Lectures on adjective and substantive law sufficient for an understanding of required secretarial tasks in a law office.

ECONOMICS

1-2 Principles of Economics (3-3)

Prerequisite for 1: Second semester standing

Prerequisite for 2: Economics 1

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.

40 Principles of Statistics (3)

Prerequisite: a year of high school algebra

An introduction to modern methods of analyzing statistical data, their gathering and classification, with emphasis on analysis and presentation.

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

Prerequisite: None

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, Architecture 1, 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 (may be taken concurrently), Physics 2, and Mathematics 4.

A study of the structural properties, behavior, and adaptability of metals and various building materials. Considerable coverage of phase rule diagrams of metal alloys and cements. Review of the technology of fuels, ceramics, various woods, and plastics.

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 of 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 (1)

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)

Prerequisites for 5: English 1-2

Prerequisites for 6: English 1-2

Note: Required of all English majors. Open to all who have completed English 1-2. Either English 5 or English 6 may be taken first.

A survey course covering the 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 plays written since 1870. The aim of the course is to enable the student to make an intelligent evaluation of contemporary drama.

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 implications 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

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 judgment. 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, spelling, and composition.

42 Better Reading and Writing (2)

Prerequisite: None

Note: This course is recommended for those who fail to make a satisfactory grade in reading comprehension in the English Placement Test.

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 15

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, or two years of French in high school 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, or three years of French in high school 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 résumés to develop fluency and accuracy in idiomatic usage.

4 Intermediate French (4)

Prerequisite: French 3, or four years of French in high school 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 1½ units of 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 1½ units of credit for Geography 5. Students who have completed Geography 1 and 2 will receive no credit for Geography 5 and 1½ units of 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 is a study of physical forces: 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 or two years of German in high school 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, or three years of German in high school 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 grade 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, or four years of German in high school 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. Practices and problems in community health.

2 Health Education (3)

Prerequisite: None

Note: It is recommended that this course be taken by all prospective elementary teachers and physical education and recreation majors. This course meets the graduation requirement of hygiene. Only 1 unit of credit will be allowed students having credit in Health and Physical Education 1.

Fundamentals of healthful living to provide the prospective teacher with scientific health information and desirable attitudes and practices in healthful living.

10 First Aid—Coeducational (1)

Prerequisite: None

Note: Required of all students for graduation.

Prevention and care of accidents and emergencies in the home and school.

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 (1/2)

Prerequisite: None

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

22B Intermediate Baseball (1/2)

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.

23A Basketball (1/2)

Prerequisite: None

Instruction and practice in the fundamental techniques and rules of the game.

Not to be offered in 1954-55.

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 and spring semesters. Daily.

26B Intermediate Football (1/2)

Prerequisite: None

Note: Recommended for physical education majors and those interested in varsity competition.

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. Fall semester only. 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 physical education 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—Coeducational ($\frac{1}{2}$)

Prerequisite: None

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

28B Intermediate Golf ($\frac{1}{2}$)

Prerequisite: Some previous playing experience in golf.

Note: Recommended for physical education majors.

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

Not to be offered in 1954-55.

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.

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.

Not to be offered in 1954-55.

32C Water Polo (1)

Prerequisite: Some previous 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.

Not to be offered in 1954-55.

33A Beginning Archery ($\frac{1}{2}$)

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.

Not to be offered in 1954-55.

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

Prerequisite: None.

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

Designed for competitive participation. Spring semester only. 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 only. Daily.

37A 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 physical education majors.

Development of team play and competitive participation.

39 Wrestling (1/2)

Prerequisite: None

Instruction and practice in the fundamental techniques and rules of amateur wrestling.

Not to be offered in 1954-55.

41 Bowling (1/2)

Prerequisite: None

Instruction and practice in the fundamental techniques and rules of the game.

60 Adapted Activities (1/2)

Prerequisite: None

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

71A Cowboy Dancing—Coeducational (1/2)

Prerequisite: None

Note: Recommended for physical education majors.

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

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 (1/2)

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

Practice in target and tournament shooting using Columbia Round.

73A Beginning Social Dancing—Coeducational (1/2)

Prerequisite: None

Instruction and practice in the fundamental steps of the fox-trot, tango, waltz, rumba, and other popular dances.

75A Beginning Golf—Coeducational (1/2)

Prerequisite: None

Instruction and practice in golf strokes, techniques and rules.

77A Volleyball—Coeducational (1/2)

Prerequisite: None

Instruction and practice in volleyball techniques with team tournaments.

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.

2 Health Education (3)

Prerequisite: None

Note: It is recommended that this course be taken by all prospective elementary teachers and physical education and recreation majors. This course meets the graduation requirement of hygiene. Only 1 unit of credit will be allowed students having credit in Health and Physical Education 1.

Fundamentals of healthful living to provide the prospective teacher with scientific health information and desirable attitudes and practices in healthful living.

10 First Aid—Coeducational (1)

Prerequisite: None

Note: Required of all students for graduation.

Prevention and care of accidents and emergencies in the home and school.

21A Beginning Sports (1½)

Prerequisite: None

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

21B Intermediate Sports (1½)

Prerequisite: H. & P. E. 21A or credit in high school.

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

27A Beginning Tennis (1½)

Prerequisite: None

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

27B Intermediate Tennis (1½)

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 (1½)

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 in 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—Coeducation (1/2)*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 (1/2)*Prerequisite:* None

Instruction and practice in the fundamental steps of the fox-trot, tango, waltz, rumba, samba, and other popular dances.

75A Beginning Golf—Coeducational (1/2)*Prerequisite:* None

Instruction and practice in golf strokes, techniques and rules.

77A Volleyball—Coeducational (1/2)*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

Note: A student may not receive credit for both History 2 and History 8.

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.

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 and no credit for those who have completed History 4, or History 17-18.

A brief study of the political, economic, and social history of the United States since 1789. 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

Note: A student may not receive credit for both History 2 and History 8.

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: Second semester 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 credit for students who have completed History 5.

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.

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. Students having credit in Home Arts 3-4 may not receive credit for Home Arts 3A-B-C-D.

A course offered primarily for adults who wish to learn one or more crafts or to refresh themselves in some crafts already learned. The class meets one day each week.

3-4 Handicrafts (2-2)

Prerequisite for 3: None

Prerequisite for 4: Home Arts 3

Note: Students having credit in Home Arts 3A-B-C-D will not receive credit in Home Arts 3-4.

Construction of costume and household accessories in which the student chooses from among the following crafts: hand weaving, leather craft, wood carving, block printing, glove making, stenciling, book binding, knotting and braiding, and decorating glass or wood. Useful for leaders in Girl Scout and Camp Fire organizations.

10 Clothing (4)

Prerequisites: None

Note: This course may be substituted for Home Arts 11. Students who have had 1 year of clothing in the 10th, 11th, or 12th grade should take Home Arts 11 and may not register in Home Arts 10 for more than 3 units of credit. Students having credit in Home Arts 11 may not enroll in Home Arts 10 for credit.

A course in the fundamentals of sewing techniques, clothing selection, construction of garments such as sports clothes and afternoon dresses, and making of basic patterns.

11-12 Clothing (3-3)

Prerequisite for 11: One year of clothing in the 10th, 11th, or 12th grade in high school.

Prerequisite for 12: Home Arts 10, 11, or 17.

Note: Home Arts 11 may not be taken for credit by students who have credit for Home Arts 10.

In Home Arts 11 the making of basic patterns, pattern construction with relation to commercial patterns, construction of garments through the application of these basic patterns, and the selection of clothing are studied. In Home Arts 12 tailoring and the techniques of hand decoration are studied with emphasis given to fine finishes.

15-16 Millinery (2-2)

Prerequisite for 15: None

Prerequisite for 16: None

Blocking and making straws and felts according to current styles and fashion trends for the season. The making of fabric hats as accessories to costume; millinery design, trim, and construction.

Probably not to be offered in 1954-55.

17-18 Apparel Design (6-6)

Prerequisite for 17: Home Arts 10 or one year of clothing in the 10th, 11th, or 12th grade 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 and coats, 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 Elementary Food Study (3)

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

Basic information relating to foods and their uses in human nutrition. Preparation of a variety of foods with emphasis on retaining a maximum of nutritive value and attractive appearance. Modern methods of preservation.

22 Meal Planning and Table Service (3)

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

A study of foods and how to combine them in nourishing family meals. Nutritive value, correct service, cleanliness, cost and the need for variety are emphasized. Type meals are prepared and served. A study is made of the art of being a good hostess.

23-24 Costume Construction (See Note)

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

Prerequisite for 24: Same as for Home Arts 23.

Note: Student may earn a maximum of 4 units in one semester; limit 16 units in combined work of Home Arts 23 and 24.

Designing and construction of group costumes for stage, ensembles, etc. This course includes the planning for and the buying of suitable materials, the design of color schemes, the design and construction of costumes and accessories, arrangement and 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 of modern dietetic trends.

29 Home Furnishings (3)

Prerequisite: None

A study of the floor plan and fixed background and the selection and arrangement of furniture. Emphasis is placed on the selection of floor coverings, draperies, curtains, upholstery, accessories, and color in the home. 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 possible solutions, relatives, family and community relations are studied. Lectures, discussion, modern film, 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.

Not to be offered in 1954-55.

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

Probably not to be offered in 1954-55.

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

Prerequisite for 41: None

Prerequisite for 42: None

A study of foods designed to give to the college student a knowledge and understanding of the principles involved in their preparation and use in the modern world. Lecture and laboratory.

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 Home Arts 45: None

Prerequisite for Home Arts 46: Home Arts 45.

Note: Home Arts 45-46 not open for credit to students who have one year of cosmetology in high school.

First year of preparation for examination for license given by 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)

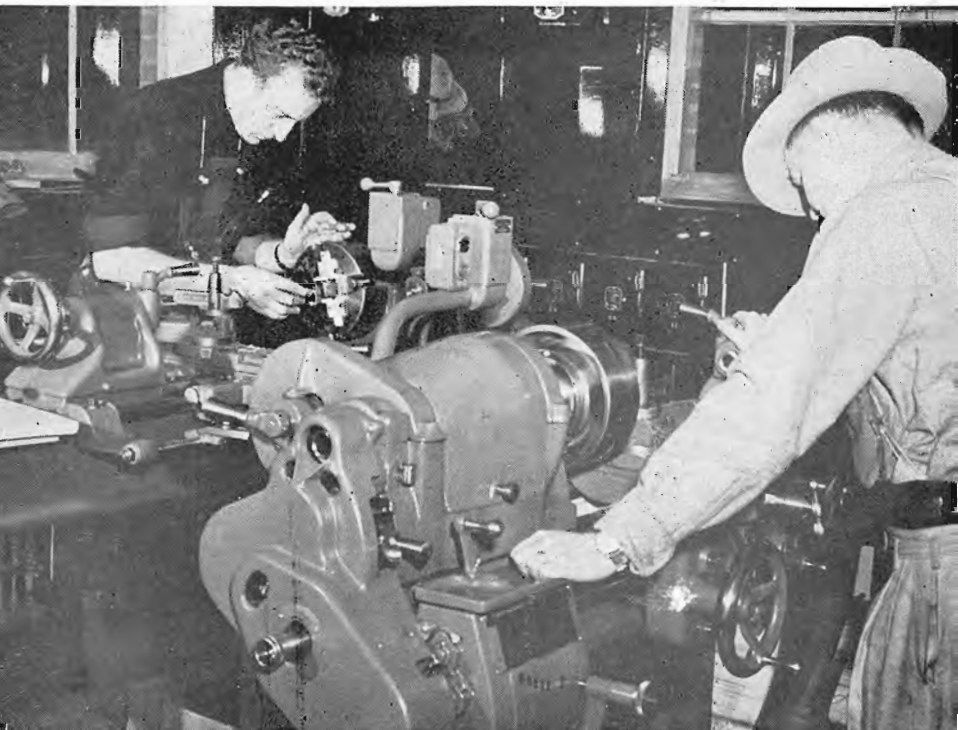
Prerequisite for Home Arts 47: Home Arts 46 or one year of cosmetology in high school.

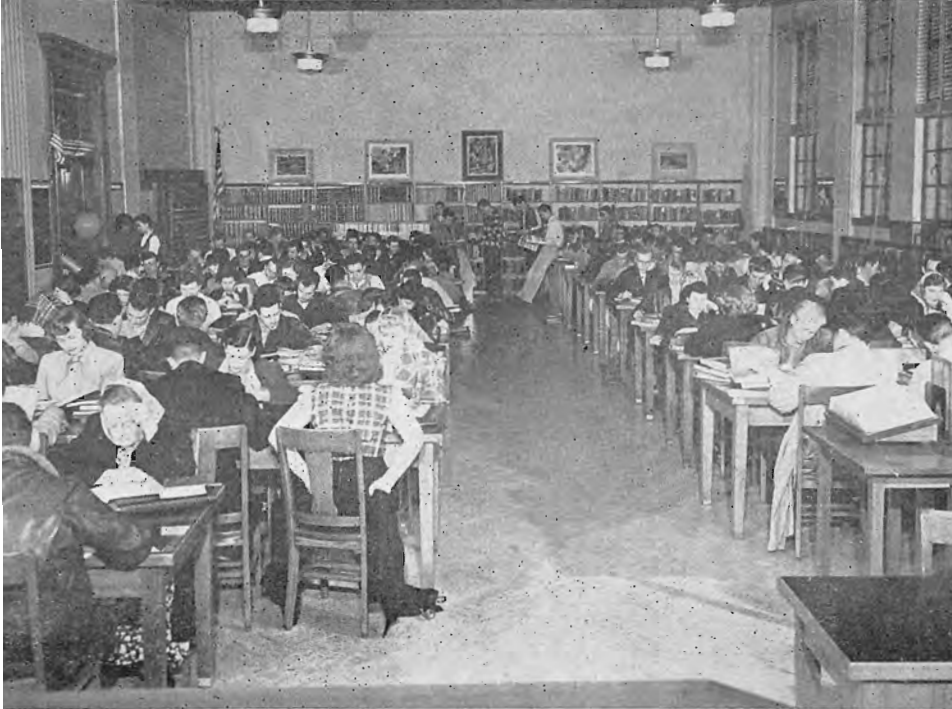
Prerequisite for Home Arts 48: Home Arts 47 or more than one year of cosmetology in high school.

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 and 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.

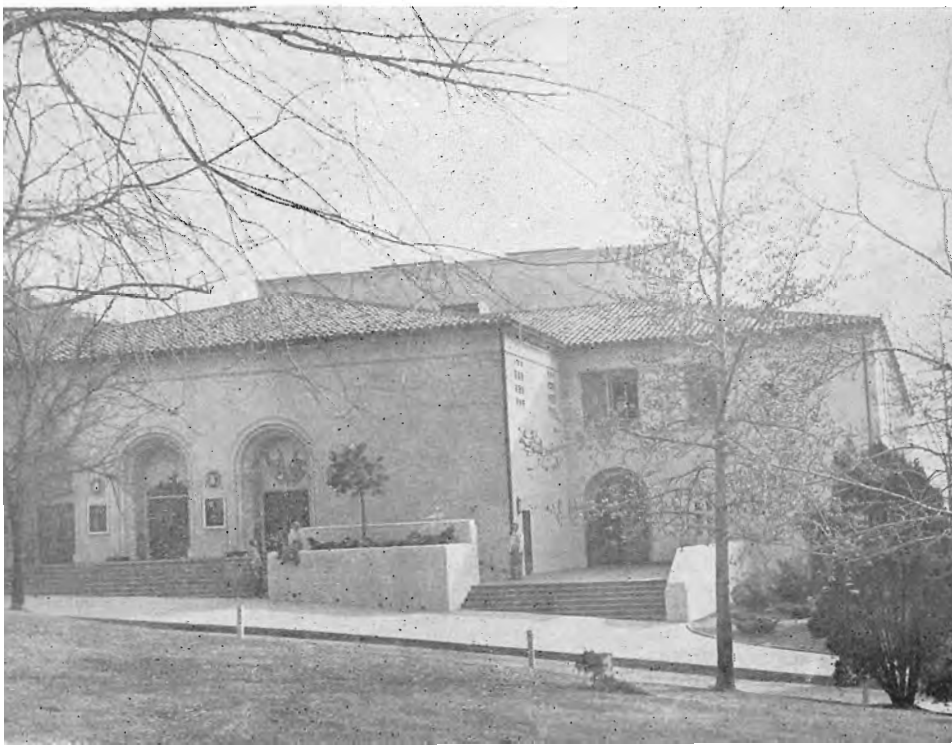


Musical Production - - - Trades





Library - - - Auditorium



JOURNALISM

1 Journalism in the United States (3)

Prerequisite: None

An introduction to the field of journalism through a study of daily and weekly newspapers, magazines, news agencies, pictorial journalism, advertising, and mechanical trends. The importance of good media of communication as an element in the maintenance of a well-informed and free society is stressed. Outside reading is required.

2 News and Feature Writing (3)

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

An introduction to news and feature writing. Laboratory practice in punctuation, vocabulary drill, spelling, and elementary editing. Outside reading is required.

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 layout 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.

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.

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.

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.

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.

51 Law for the Layman (2)

Prerequisite: None

An evening course similar to but less comprehensive than Law 31. See that course for description.

53 Police Law (3)

Prerequisite: None

Criminal law is studied from the point of view of the peace officer. A study is made of crimes as they are recognized in the California Penal Code.

MATHEMATICS

1 Intermediate Algebra (3)

Prerequisites: 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, second and third order determinants.

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 Analytic Geometry and Introduction to Calculus (5)

Prerequisite: Mathematics 8 or Mathematics 1 and 2 or two years of algebra and trigonometry in high school. In addition the student must attain a satisfactory grade in the Mathematics Aptitude Examination given before registration.

Note: Only three units of credit are allowed students having credit in Mathematics 8.

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. A review of college algebra and introduction to the calculus.

4 Differential Calculus (3)

Prerequisite: 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 Analytic 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 Analytic Geometry, and Infinite Series (3)

Prerequisite: Mathematics 5

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

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. Mathematics 2 may be taken concurrently.

Note: This course may not be taken for credit by students having credit in Mathematics 3.

A review of fundamental processes of algebra and advanced work in progressions, determinants, theory of equations, partial fractions, permutations and combinations, and probability.

11 Commercial Algebra (3)

Prerequisite: Mathematics 41 or one year of algebra in high school.

Note: Not open for credit to students having credit for two years of algebra in high school or Mathematics 1. Two units credit will be allowed students having credit for 1½ years of algebra in high school. Recommended for all Business Administration majors.

A study is made of ratio, proportion, percentage, discounts, logarithms, interest, and the arithmetic and algebra essential to understanding of problems commonly met in business and as preparation for more advanced topics, especially in the mathematics of finance.

12 Mathematics of Finance (3)

Prerequisite: Mathematics 11. (Students may substitute two years algebra in high school or Mathematics 1 or Mathematics 2 for the Mathematics 11 prerequisite.)

Note: Recommended for commerce and business administration majors.

A study of interest, discount, annuities, amortization, sinking funds, valuation of bonds, depreciation, and life insurance.

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 Elementary Mineralogy (4)**

Prerequisite: Chemistry 1, 11 or 41; or chemistry in high school. Chemistry 1 may be taken concurrently.

Note: It is recommended that Geology 1 be taken concurrently unless taken previously.

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 dictation.

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 aesthetics 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 (Students who have had one year of harmony in high school may take Music 1 concurrently with Music 5.)

Prerequisites for 6: Music 1 and Music 5.

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. Modulation. Creative work. 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.

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 College 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.

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.

31-32 Radio Production (2-2)

Prerequisite for 31: None

Prerequisite for 32: Speech 31

A course in the fundamentals of all forms of microphone speech. It is especially recommended for student leaders, announcers, commentators, and disc-jockeys using the campus broadcasting system.

35-36-37-38 Popular Orchestra (1-1-1-1)

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 (1-1-1-1)

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. Baton and Flag Twirling will be given credit with the Band. Twirls to be learned are right and left wrist, front twirl, around the body, figure eights, under the legs, low front throw, high front throw, back catch, and marching techniques.

45-46-47-48 Treble Clef (1-1-1-1)

Prerequisite: Membership in the College 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 the emphasis on blending and balance.

49-50-51-52 Concert Choir (1-1-1-1)

Prerequisite: At least two years of College 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 (1-1-1-1)

Prerequisite: Evidence of a good voice and membership in College 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 (1-1-1-1)

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 (1-1-1-1)

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.

65-66-67-68 String Ensemble (1-1-1-1)

Prerequisite: Concurrent enrollment in either Glendale College band or orchestra.

Note: Courses to be taken in sequence.

A small instrumental group which plays for radio and other public performances. Emphasis on balance, dynamics, phrasing, and interpretation.

69-70-71-72 Piano (2-2-2-2)

Prerequisite for 69: None

Note: Courses are to be taken in sequence. Music 69 not open to students having previous instruction in piano playing.

This course is designed for students who wish to gain an 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 the fundamental touches of piano keyboard technique. This class is also given in Evening School.

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)

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.

NURSING ARTS**1 Nursing Arts and Hospital Orientation (5)**

Prerequisite: Enrollment in the vocational nursing program.

Note: This course is given at Glendale Sanitarium.

The subjects covered include lectures in classroom, and supervised practice on hospital floors, nursing procedures and techniques in care of acute and chronic patients in hospital and home care and use of hospital equipment, observation of signs and symptoms of disease, and hospital orientation. Three hours of lecture and two three-hour laboratory periods each week.

2 Nursing Practice (20)

Prerequisites: Nursing Arts 1, anatomy and physiology, and bacteriology.

Note: This course is given at Glendale Sanitarium.

Lectures, demonstrations, classroom instruction, bedside clinics, ward teaching, and case studies in medical and surgical nursing. The work includes observation of symptoms, etiology, treatment, and complications of disease. Physical therapy, materia medica, diet in disease, care of mother and newborn, and pediatric nursing are covered. A minimum of 32 hours each week for 30 weeks will be spent in actual bedside care of the patient, in addition to lectures and classroom instruction.

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 of organisms and their 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.

An overview of idealism and naturalism and the problems of truth, knowledge, right, good, freedom of the will, God and immortality.

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 satisfactory laboratory work a week; two units for six hours a week. Photography 1 is lecture and demonstrations and Photography 3 (laboratory) should be taken concurrently. Photography 2 is lecture and laboratory, and Photography 4 should be taken concurrently.

A survey of still, view, press, reflex, and miniature cameras; characteristics of lens and shutters; character and selection of negative materials, paper, and chemicals. Photographic nomenclature. Coverage of accessories (exposure meters, flash, filters). Introduction to laboratory practice.

This course is also given in Evening School.

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 unit requiring satisfactory completion of three hours of laboratory work a week.

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 or publications, or sports to take pictures such as those a reporter would have on assignment.

This course is also given in Evening School as Advanced Photography for 1 unit credit.

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 unit requiring 3 hours of satisfactory laboratory work a week.

An advanced course for competent students with previous training and experience.

7-8 Special Projects (See Note)

Prerequisite: None

Note: The student may earn 1, 2, or 3 units each semester, with a maximum of 6 units, the hours to be arranged at the time of registration. Credit earned depending upon satisfactory completion of three hours of laboratory work per unit.

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 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 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 or chemistry (and one of: Physics 10, one year of physics in high school, Chemistry 41, 11, one year of chemistry in high school) and trigonometry (one sem-

ester of trigonometry in high school or Mathematics 2 which may be taken concurrently with Physics 5).

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.

35-36 Sound Recording (1-1)

Prerequisite for 35: Experience with sound equipment.

Prerequisite for 36: Same as for 35.

A practical course in the operation and maintenance of tape and disc-recording equipment in connection with radio production.

47-48 Physical Apparatus (1-1)

Prerequisite for 47: Physics 10 or physics in high school.

Prerequisite for 48: Same as for 47.

Laboratory work in designing, constructing, and repairing apparatus for physics laboratory and lecture demonstrations. Three hours each week.

PHYSIOLOGY

11 Introductory Physiology (4)

Prerequisite: Two semesters of laboratory science in the 11th or 12th grade in high school or 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 experimental materials. Course required for pre-nursing students, elective for others. Three hours of lecture and one three-hour laboratory period each week.

41 Physiology and Anatomy (4)

Prerequisite: None

Note: This course is designed to meet particularly the needs of students enrolled in the vocational nursing curriculum, but it is open to others.

Lecture and laboratory course dealing with the structure and

functions of the various systems of the human body. Charts, models, and experimental materials are employed in the course. Three one-hour lectures and one three-hour laboratory period per 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 emphasis is placed on the national government of the United States and on relationships existing between national and state governments. 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 (1)

Prerequisite: None

Note: It is recommended that this course be taken after the completion of the constitution requirement. This course or Social Science 31-32, is a graduation requirement. No credit is allowed for this course to students having credit in Social Science 31-32.

A study of the development of state constitution, practices, and laws. The relation of the the states to the Federal government and also to county and municipal government. Particular emphasis is placed upon 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.

10 Introduction to Psychology (3)

Prerequisite: None

A general introduction to the study of personality emotions, motivation, growth and development, and uses of psychology in daily living.

15 Reading Improvement (2)

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.

21 Occupational Planning (1)

Prerequisite: None

Note: Students having two units of credit in Psychology 22 will receive no credit in Psychology 21.

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. Lectures, standardized tests, motion pictures, self-analysis, outside speakers.

22 Vocational Guidance (2)

Prerequisite: None

Note: This course is required of all students participating in the Work Experience program. Students having credit in Psychology 21 will receive only one unit of credit in Psychology 22.

A course designed to help the student solve problems of vocational adjustment and to make an intelligent career selection. Techniques of selecting, applying for, and holding a job are discussed and practiced. With the aid of standardized tests, students analyze themselves to determine the vocations they are best suited for.

Through library research they explore the opportunities and requirements of fields they are considering. Employer-employee problems, including labor relations, are also studied.

X How to Study (0)

Prerequisite: None

A ten weeks course designed to aid students in improving their study habits. Special emphasis is placed upon how the student learns, the time schedule, the discovery of the nature and extent of reading difficulties, outlining the lecture and reading assignments, the efficient use of the facilities for study, developing skill in selecting essential facts for review, and preparing for and taking of examinations. Ample opportunity is provided for the consideration of individual study problems and for practicing suggested procedures.

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 Political Science 1 or 5, and only seven units for students having credit in Political Science 6.

The interrelationship of the social sciences and their application to the problems of group living in the twentieth century are developed through 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, and 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, the American Constitution, and State and Local Government.

41 Student Leadership (1)

Prerequisite: None

Note: Open to all students interested in developing leadership skills. Officers of all 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, or two years of Spanish in high school 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, or three years of Spanish in high school completed within the past two years.

Note: This course may not be taken for credit by students who have completed four years 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 or four years of Spanish in high school 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

Training in oral communication to assist the student in eliminating stage fright and developing self confidence, poise, and an acceptable speaking voice. Exercises in voice development, in reading aloud, and in preparing simple speeches.

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.

21 Voice Improvement (1)

Prerequisite: None

A course designed to help students with speech difficulties. The theory of voice improvement and individual drill in the development of skills in voice quality, volume, articulation, and pronunciation are included.

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 in 1954-55.

THEATER ARTS

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 Arts 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 students and signed for at the time of registration. Courses are to be taken in sequence.

Students should not enroll for both Theater Arts 5-6-7-8 (Theater Workshop) and Theater Arts 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 Arts 9

Instruction in the use and application of all types of stage make-up. Students from this course will compose the make-up crew for all college productions.

21-22 Stage Design (2-2)

Prerequisite for 21: None

Prerequisite for 22: Theater Arts 21

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 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 Theater Arts 31-32-33-34 (Technical Stage) and Theater Arts 5-6-7-8 (Theater Workshop) in the same semester.

A laboratory class in the construction and handling of scenery and scenic effects 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.

Costume Construction

See Home Arts 23-24.

TRADES**1-2 Elementary Machine Shop (6-6)**

Prerequisite for 1: None

Prerequisite for 2: Trade 1 or Trade 5

Note: Students must register for full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 1 and 6 units for Trade 2.

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

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 3 and 6 units for Trade 4.

Advanced and complicated operations of machine shop tools and equipment, and the machining of different kinds of metal. Pre-

cision 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 (4-4)

Prerequisite for 5: None

Prerequisite for 6: Trade 5

Note: Not open to students who have completed Trade 1. Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units each will be allowed for Trade 5 and 6.

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 (4-4)

Prerequisite for Trade 7: Trade 1 or Trade 6

Prerequisite for Trade 8: Trade 7

Note: Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units credit each will be allowed for Trade 7 and 8.

A course to provide practice on machine shop equipment. Students will work on individual projects.

9 Principles of Tool Engineering (6)

Prerequisite: Trade 4

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units.

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

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 11 and 6 units for Trade 12.

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

Note: Students must register for full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 13 and 6 units for Trade 14.

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 products. The course consists of five three-hour laboratory periods each week and gives advanced apprenticeship rating to students completing it.

15 General Metals (4)

Prerequisite: None

Note: Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units may be earned.

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 (4-4)

Prerequisite for 17: None

Prerequisite for 18: Trade 17

Note: Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units credit each will be allowed for Trade 17 and 18.

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.

19-20 Advanced Welding (4-4)

Prerequisite for 19: Trade 18

Prerequisite for 20: Trade 19

Note: Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units credit each will be allowed for Trade 19 and 20.

A course providing an understanding of the extensive usefulness of welding in industry. Advanced study and uses of thermite, unionmetal, inert arc, atomic-hydrogen, pipe welding; hard facing, surface hardening; and the study of alloy metals. 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

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 8 units for each course.

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

Note: Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 8 units credit each will be allowed for Trade 25, 26, 27, and 28.

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

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 31 and 6 units for Trade 32.

A basic course in drafting consisting of instruments of the trade; lettering, orthographic projection, detail and assembly drawings, freehand drawing, shop sketching and blueprint 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

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 33 and 6 units for Trade 34.

A course equipping the student to prepare production drawings

of professional quality. Includes: design for production; preparation of detail and assembly drawings; materials and processes; layout; lofting; and engineering department routine.

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 Jewelry, Gem, and Metal Craft (4-4)

Prerequisite for Trade 47: None

Prerequisite for Trade 48: Trade 47

Note: Students who have credit in Art 47-48 may not take Trade 47-48 for credit. Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units credit each will be allowed for Trade 47 and 48.

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, 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.

49-50 Advanced Jewelry, Gem, and Metal Craft (4-4)

Prerequisite for 49: Trade 48

Prerequisite for 50: Trade 49

Note: Students enrolling in this course for less than the full scheduled class time or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units credit. A maximum of 4 units credit each will be allowed for Trade 49 and 50.

Advanced study and uses of precious metals and stones. Gem cutting of precious and semi-precious stones; use of diamond saw, grinding wheel, and polish buffs; hardness of minerals; identification of stones; precision investment casting; rubber mold making; plating of gold, silver, copper, nickel; wax-pattern duplication; study of the characteristics of the eight precious metals and their uses.

51-52-53-54 Woodwork and Carpentry (See Note)

Prerequisite for 51: None

Prerequisite for 52: Trade 51

Prerequisite for 53: Trade 52

Prerequisite for 54: Trade 53

Note: Students enrolling in this course for less than the full scheduled class time, or students registering late will be allowed credit at the rate of 1 unit for each 45 hours of class and laboratory work completed. For example, a student attending 5 hours per week for the entire semester would receive 2 units of credit. A maximum of 4 units of credit each will be allowed for Trade 51-52-53-54.

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 squares are fully explained and demonstrated.

65-66 Basic Technical and Production Illustration (6-6)

Prerequisite for 65: None

Prerequisite for 66: Trade 65 or Trade 31

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 65 and 6 units for Trade 66.

Trains the student in the basic methods required by industry for the preparation of drawings of mechanical devices. The course includes isometric drawing; perspective; blueprint reading; instruments and materials of the trade; shading; inking; textures; and reproduction processes.

67-68 Advanced Technical and Production Illustration (6-6)

Prerequisite for 67: Trade 66

Prerequisite for 68: Trade 67

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units for Trade 67 and 6 units for Trade 68.

Covers the knowledge and skills used by the professional illustrator, with the aim of preparing the student to perform complicated assignments. Includes typography, page layout, pasteup procedures, color separation, ship sketching, schematics, and engineering department routine.

71-72-73-74 Radio and Television Servicing (6-6-6-6)

Prerequisite for 71: None

Prerequisite for 72: Trade 71

Prerequisite for 73: Trade 72

Prerequisite for 74: Trade 73

Note: Students must register for the full number of hours for which the course is scheduled, but late registration is permitted provided a vacancy in the class exists. Credit for late entrants will be allowed at the rate of 1 unit for each 45 hours of class and laboratory work completed up to the limit of 6 units.

A course designed to give the student an opportunity to study the theory of radio and television, and to apply this information in experimentation and shop practice. The course includes terminology, radio and television circuits, amplifiers, test equipment, and shop work.

WORK EXPERIENCE**1 Work Experience (See Note)**

Prerequisite: Psychology 22 (which may be taken concurrently) and employment for a minimum of 10 hours per week.

Note: A minimum of 2 and a maximum of 5 semester units credit may be earned in any one semester with a maximum of 20 semester units credit possible.

Students who are regularly employed in jobs that are approved by the Employment Office may enroll in the Work Experience program. These students work under the supervision of college personnel who help them accomplish these objectives through their work experience, gain an understanding of actual job requirements of business and industry, develop efficient and constructive work habits and attitudes, and make an intelligent career selection. The amount of credit a student may earn is subject to evaluation of the particular job by the Placement Committee.

ZOOLOGY**1-2 General Zoology (4-4)**

Prerequisite for 1: Two semesters of a laboratory science course in the eleventh or twelfth grades of high school or 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.

A P P E N D I X
LOWER DIVISION REQUIREMENTS
For Certain Universities and Colleges
in California

1 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)

Bacteriology 11

Biology 1, 2

Botany 1*

Chemistry 1*, 2*, 3*, 4*, 5*, 6*, 10

†Geography 1

Geology 1, 2

Paleontology 1

Physics 1-2-3 or 4*, 5-6*, 10

Physiology 11

Zoology 1*, 2*

*Laboratory science courses

c. 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, 12.
4. Social Sciences
Economics 1-2
†Geography 1-2, 5-6
History 1-2, 3-4, 7-8, 17-18
Political Science 1-2
Psychology 1-2
Sociology 1-2
5. Philosophy
Philosophy 1-2
6. Fine Arts (any two courses below; not necessarily a sequence)
Art 1, 2
Music 3, 4
English 5, 6

†Geography 1 may be used either in the Natural Science requirement or the Social Science sequence, but not in 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 for upper division standing; all are required for graduation.

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, Air Science, 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 the 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 Science

1. At least five units in physical science chosen from the following:

Chemistry 1, 10

Geography 1

Geology 1, 2

Mathematics—one course from Mathematics 1, 2, 3, or 8

Physics 1, 2, 5, 6, 10

2. At least 5 units in biological science, chosen from the following:

Anatomy 11

Bacteriology 11

Biology 1, 2, 11

Botany 1

Paleontology 1

Physiology 11

Zoology 1, 2

f. Social Sciences

1. A six-unit year course in history chosen from the following:

History 1-2, 3-4, 7-8, 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 selected from the following:
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 in all college work attempted. It is recommended that a student 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—5 units
History 5, Political Science 5, 6
 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. English 5, 6, 8, 10, 13, and 14.
- f. Physical Education, 6 units
Physical Education activity (4 semesters) 2-4 units
Health and Physical Education 1
Students who transfer with 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 fourth 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*, 10
- 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 12 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, or Spanish 1-2-3, or German 1-2-3

Students may substitute mathematics through calculus for the language requirement.

c. Electives, if needed, in arts and letters to total 10 semester units in this group.

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 10, 1-2, Physics 1-2-3-4, 5-6, or Geology 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 7, 1, and 2.

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 junior standing in one of the colleges of the University such as the College of Letters and Science* (see page 141) and must include in his program the following: Economics 1-2, 13-14, 40, Law 17, Mathematics 12 or 3-4. It is recommended that the student include Geography 5-6.

*Students qualifying to enter the School of Business Administration by meeting the requirements of the College of Letters and Science may offer, in place of the full language requirement, twelve units of not more than two languages and English 1 or Speech 3; eight units of one language and English 1-2 or Speech 3-4 or a combination of English 1 and Speech 3. Students using this plan may not offer the English or speech courses used in substitution for the foreign language in partial satisfaction of the group (e) requirement of the College of Letters and Science requirements.

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 142) and must complete the following: Economics 1-2, 13-14, Mathematics 12 or 3-4, English 1, course 2 (or equivalent) in a foreign lan-

guage, and one laboratory course in natural science at the college level.

*Students wishing to meet only the entrance requirements to the School of Business Administration by fulfilling the requirements of the College of Letters and Science are required to have completed course 2 (or equivalent) in a foreign language and need not have the amount of sixteen units in not more than two languages.

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 advanced 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*

Astronomy 1

Bacteriology 11*

Biology 1, 2, 11,

Botany 1*

Chemistry 1*, 2*, 3*, 4*, 5*, 6*, 10*, 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, 12.

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, Social Science 31-32.

5. Psychology 1-2.

6. Philosophy 1-2.

7. Art 1-2, 3-4, 5-6; Music 1-2, 3-4, 5-6.

(Acceptable only when art or music is not major)

Note: Geography 1 or 5 may be used for the natural science requirement or for the social science requirement, but not for 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 and at least a "C" average in the institution last attended. 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, 10, Physics 5, 6, 10).
 - (b) Chemistry 10 and Physics 10 with at least seven additional units from Biological Sciences (Biology 1, Botany 1, Physiology 11, Zoology 1,2).
6. Foreign Language, 12 units
The divisional requirement of 12 units in one foreign language may be satisfied in whole or in part in high school. The first two years of high school work in a foreign language will be counted in satisfaction of 4 units of this requirement and each year thereafter as 4 units. Thus students who have received credit for four years of one language in high school will be deemed to have fulfilled the requirement. 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 advanced 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.

The departments offering majors in the Division of Applied Arts meet the above requirements in somewhat different ways. Students interested in a specific major should consult catalog or obtain list from Registrar's Office, Santa Barbara College.

9 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. These requirements may be fulfilled at Glendale College as follows:

<i>Course</i>	<i>Units</i>
**English 1-2	6
**Speech 1-2 or Speech 3	4 or 3
**History 7-8	6
Social Science 31-32	8 or 7
or	

History 5 **Political Science 5-6, and Economics 1

Philosophy 1	3
Sociology 1 (preferred) or Psychology 1	3
Art 1 or 2	3
Music 3 or 4	3
English 5 and 6, or English 13 and either 5 or 6	6 or 5
*Foreign language	8
**Physical Education (a minimum of 4 semesters)	2
Science	
for <i>Science Majors</i> : 3 semesters of laboratory science; minimum of	12
for <i>Non-science Majors</i> :	
Biology 1	3
Chemistry 10 or Chemistry 41 if grade "A" or "B" is earned, Physics 5, or Physics 10	5-3
Geology 1	3

Electives to make a total of 64 units

*If necessary to substitute lower division electives which are prerequisite to a student's major, this graduation requirement may be postponed until the last two years of college.

**Students expecting to transfer at the end of one year in Glendale College should include these courses plus two semesters of either language or science. Before starting program it is urged that students who plan to transfer at the end of one year's work should have an interview with Registrar, Occidental College.

Note: 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.

10 State Colleges of California

Chico, Fresno, Humboldt, Long Beach, Sacramento, San Diego, San Francisco, San Jose

A student expecting to transfer to one of the above State Colleges 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, and 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 foregoing six general areas, may include one or more courses in family life education and in mathematics, and in some cases the student may elect not over six semester units of this requirement in courses in foreign language.

Los Angeles State College

A Glendale College student seeking admission to Los Angeles State College should during his last semester of attendance at Glendale College file an application with the State College Admissions Office and arrange to have sent there from the Glendale College Registrar's Office an official transcript of record. In order to be accepted by the State College, applicants must have completed at least 54 units of approved college courses with a minimum of a "C" average. No specific pattern of courses is required for admission, but students intending to transfer to the State College should plan their program to meet graduation requirements of that institution. Students are cautioned to consult the State College catalog for a complete description of the curriculum and for the regulations of the State College.

The degree requirements at the State College consist, in general, of two parts. First, the general education requirements which are required of all degree candidates regardless of the proposed field of specialization. Second, the major department requirements, which are a part of the student's field of specialization. The general requirements are listed below for the student's use in planning his first two-years' program. While requirements need not all be met in lower division, it is advisable that the student plan his program in order to satisfy many of these requirements in the first two years.

1. Social Sciences

- a. A course or courses involving American History and Government, the Constitution, and American Institutions and Ideals. This requirement may be satisfied by courses which Glendale College indicates as meeting the American Institutions and History requirement for graduation.

- b. A course or courses involving the study of world cultures and history or European history and culture. Acceptable courses include: History 1, 2, 3, 4, 7, 8.
 - c. A course or courses involving the Study of Man in his Environment. Approved courses include: Economics 1, 2; Geography 2, 5; Sociology 1 and 2; Social Science 31-32. (Note: Social Science 31-32 will fulfill requirements both a and c)
2. Natural Sciences
A total of 9 units is required with at least one three-unit course from the life science area and one three-unit course from the physical science area.
- a. Life Science area: Anatomy 11, Biology 1, 2; Botany 1; Physiology 11; Zoology 1 and 2.
 - b. Physical Science area: Astronomy 1; Chemistry 10, 1, 2; Geography 1; Geology 1, 2; Physics 10, 5, 6, 1, 2, 3, 4.
3. Oral and Written Expression
- a. Oral Expression: Three units required. Speech 1-2, 3.
 - b. Written Expression: Three units required. English 1.
4. Literature and/or Philosophy
Six units required. Courses should be selected from the following:
English 5, 6, 13, 14.
Philosophy 1, 2.
5. Fine or Practical Arts
Three units are required. A course should be selected from the following:
Art 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 19, 29, 31, 33, 34, 39, 40, 43, 45
Home Arts 3, 4, 11, 12, 15, 16, 29
Music 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26, 69, 70, 71, 73
Photography 1, 2
6. General Psychology
Psychology 1
7. Physical Education and Hygiene
Health and Physical Education 1 and 2 units of Activity courses are required.
8. Total General Education Requirements:
Students must complete the specific requirements indicated above and electives from the above fields to make a total of 45 units.

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. Applicants must present a junior college transcript showing a "C" average. Others may be admitted if they attain the twentieth percentile on a standard college aptitude test. 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, student should take certain subjects pertaining to the particular division in which he wishes to major as follows:

Agriculture—Bacteriology 11, Botany 1, Chemistry 10 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 10, Engineering 1, 2, 3, Mathematics 1, 2, 3, 4, 5, 8, and Physics 1-2-3-4 or 5-6.

Liberal Arts—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.

Counseling Services

Glendale College maintains the following student services: (1) ability and interest testing, (2) educational counseling, (3) vocational guidance.

Counselors

Prior to registration and according to his vocational interest, every student is assigned a counselor who will approve the student's trial program in preparation for formal registration. It is the responsibility of the student to plan his own course, and make his own decisions; the counselor will help with suggestions based upon the information derived from the student's high school record, the ability and interest tests given at the pre-registration examination, and other special tests administered as the need arises. After the initial interview with the student, the counselor will be available according to scheduled hours for conferences on courses, activities, and personal and social problems that may arise in connection with the adjustment to 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. 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 standard test materials for students. Among these are the other tests of ability and vocational interest, as well as tests of various aptitudes, special skills, and of personality.

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