Imperial Valley College

Imperial Valle

General Catalog 1981-1983

Imperial Valley College

1981-1983

welcomes you and wishes to take this opportunity to congratulate you on your decision to accept the challenge of further education. This catalog is your guide to and through this college and the many educational programs which it offers. In it you will find the information which you must have to succeed. In it also are those rules and regulations which govern not only the college, but you, the student, as well. It is your obligation to become thoroughly familiar with its contents. It has been prepared with your success in mind!

ANNOUNCEMENT OF COURSES

IMPERIAL COMMUNITY COLLEGE DISTRICT

Highway 111 and Aten Road IMPERIAL, CALIFORNIA 92251 Phone 352-8320 IMPERIAL COUNTY, CALIFORNIA

IMPERIAL VALLEY COLLEGE

ACCREDITED

by

Accrediting Commission for Junior Colleges
Western Association of Schools and Colleges
The State Department of Education
National League for Nursing
American Welding Society

A
MEMBER
of
California Community and Junior College Association

APPROVED for The Veterans Administration

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IMPERIAL VALLEY COLLEGE 1981 - 1982 SCHOOL CALENDAR

1981			
September	1 2 3 8	Tuesday Wednesday Thursday Tuesday	Faculty Orientation/Registraton Faculty Orientation Faculty Orientation Fall Semester classes begin
November	11 26-27	Wednesday Thursday - Friday	Holiday (Veteran's Day) Recess (Thanksgiving)
December	21	Monday	Recess (Christmas)
			7
1982			b
January	1 20 21 27 28 29	Friday Wednesday Thursday Wednesday Thursday Friday	Last day of recess (Christmas) Final Exams begin (Evening classes) Final Exams begin (Day classes) Last day of Final Exams/Registration Faculty Orientation Non-service day
February	1 12 15	Monday Friday Monday	Spring Semester classes begin Holiday (Lincoln's Birthday) Holiday (Washington's Birthday)
April	5-9	Monday - Friday	Recess (Spring)
May	31	Monday	Holiday (Memorial Day)
June	3 4 10 11 12	Thursday Friday Thursday Friday Saturday	Final Exams begin (Evening classes) Final Exams begin (Day classes) Last day of Final Exams Non-service day Graduation
#	14	Monday	Summer School begins (If offered)

IMPERIAL VALLEY COLLEGE DEADLINE DATES

FALL SEMESTER 1981

September	6	Sunday	Residence Determination Date Fall Semester 1981
September	8	Tuesday	First Day of Classes
September	18	Friday	Last Day to Add or Register (End of 2nd Week)
September	28	Monday	First Census Day (Monday of 4th Week) Last Day to Apply for Tuition Refund
October	16	Friday	Last Day to Apply for Graduation and Certificates
			Last Day to Remove Incompletes for Spring 1981 (End of 6th Week)
November	16	Monday	Second Census Day (Monday of 11th Week)
November	25	Wednesday	Last Day to Apply for Repeated Classes (End of 12th Week)
December	11	Friday	Last Day to Drop with a "W" Grade (End of 14th Week)
January	20-27	Wed Wed.	Final Examinations
January	27	Wednesday	Last Day of Fall Semester 1981

SPRING SEMESTER 1982

January	31	Sunday	Residence Determination Date Spring Semester 1982
February	1	Monday	First Day of Classes
February	11	Thursday	Last Day to Add or Register (End of 2nd Week)
February	22	Monday	First Census Day (Monday of 4th Week) Last Day to Apply for Tuition Refund
February	26	Friday	Last Day to Apply for Graduation and Certificates (End of 4th Week)
March	12	Friday	Last Day to Remove Incompletes for Fall 1981 (End of 6th Week)
April	5	Monday	Second Census Day (Monday of 10th Week)
April	23	Friday	Last Day to Apply for Repeated Classes (End of 12th Week)
May	7	Friday	Last Day to Drop with a "W" Grade (End of 14th Week)
June	3-10	Thursday-Thursday	Final Examinations
June	12	Saturday	Graduation Day

THE BOARD OF TRUSTEES IMPERIAL COMMUNITY COLLEGE DISTRICT

MR. VICTOR CALDERON

Trustee from area which includes Brawley Union High School District

MR. MILTON W. CARR

Trustee from area which includes Calipatria Unified School District

MR. BILL COLE

Trustee from area which includes Central Union High School District

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MR. ROBERT NOBLE

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Trustee from area which includes San Pasqual Valley Unified School District

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Trustee from area which includes Imperial Unified School District

ADMINISTRATION

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MR. WILLIAM THORNBURG

Vice President for Business Services

MR. DEAN LEPTICH

Vice President for Student Services

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Dean of Vocational-Technical Education

DR. JAMES D. WALKER

Dean of Evening College

MR. RUBEN LOPEZ Dean of External Campus

MR. STANLEY E. ALBERDA

Dean of Learning Services

DR. HECTOR LOPEZ

Dean of Counseling Services

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Director of Student Life and Community Services

MR. MEL WENDRICK

Director of Physically Limited Services

MR. AL WILSON

Director of Financial Assistance & Placement Service

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> MR. BILL GRIFFIN Chairperson of Division of Business

MRS. JANYTH FREDRICKSON Chairperson of Division of English

DR. MAX FIELDS
Chairperson of Division of Health, Physical Education, and Recreation

MR. JACK FUESLER Chairperson of Division of Humanities

TO BE DETERMINED
Chairperson of Division of Mathematics and Engineering

MRS. LOUISE E. SAXE
Chairperson of Division of Nursing Education and Health Technologies

MR. JIMMY PENDLEY Chairperson of Division of Science

MR. WALTER L. SAMSON, JR. Chairperson of Division of Social Science

DIRECTORS AND COORDINATORS

MR. GLENN A. GENTRY Work Experience Coordinator

MRS. LOUISE E. SAXE
Director of Nursing Education and Health Technologies

MRS. BARBARA MACCI Director of Early Childhood Programs

> DR. JAMES WALKER Director of Athletics

THE FACULTY

AKERS, H. RUSSELL Instructional Specialist for the Physically Limited B.A., Southern Illinois University M.S., Indiana University

ALBERDA, STANLEY E.
Dean of Learning Services
B.A., Hope College
M.A.L.S., University of Michigan
M.A., Michigan State University

ANDERSON, LESLIE R. Law Enforcement B.B.A., Woodbury College

ANDREWS, MARILYN
Psychology
B.A., M.A., California State University

ARAGON, RAUL Counselor B.A., M.S., California State University

ARCHULETA, JOE A.
Mathematics, Electronics
B.S., Colorado University
M.A., California State University

BACON, JEANNE
Instructional Specialist for Physically Limited
B.S., University of Kansas
M.S., Kansas State Teachers College

BACZUK, JOHN
English
B.A., California State University
M.A., State University of New York

BANKS, STANLEY C. Sociology B.A., Macalester College M.A., California Western University

BEAZLEY, HERSCHEL V., JR. Music
B.A., Florida State University
M.A., Georgia State
Ed.D., University of Illinois

BEOPE, FRANCES A. Counselor B.A., M.A., San Diego State University

BERNARD, WILLIS C. Art B.S., Massachusetts College of Art M.A., California State University

BILLINGS, LANELLE
Business
B.B.A., University of Texas
Ed.M., Southwest Texas State College

BILLINGS, ROBERT
Physical Education
B.S., University of Texas
M.S., Southwest Texas State College

BRUNGARDT, MARTHA Associate Degree Nursing B.S.N., M.S., University of Arizona

BUCKNER, CAROL English B.A., California Lutheran College M.A., University of Denver

CERDA, DANIEL
English
B.A., San Diego State University
M.A., Northern Arizona University

CERDA, ERNESTINE
English
B.A., San Diego State University
M.A., Northern Arizona University

CHAILLE, MICHAEL
Art
B.A., University of California

CHAMPAGNE, PHILIP Welding B.A., M.A., Arizona State University

CURLE, DAVID
Photography
B.P.A., Brooks Institute-School of Photography
B.A., San Diego State University

DePAOLI, JOHN, JR.
Superintendent-President
B.A., M.A., University of California
Ph.D., U.S. International University

DEYO, JEFFREY
Physical Education
B.A., Mount Marty College
M.S., West Virginia University
DIEZ, JAMES

Welding
A.S., San Diego Junior College
EPPERLY, JOYCE

Associate Degree Nursing R.N., A.S., Imperial Valley College FARRAR, LLOYD

History
B.A., Oberlin College
M.A., Columbia University

M.A., Columbia University FARRIER, PAUL

B.A., M.Ed., M.A., University of Arizona FIELDS, MAX Physical Education

Chairperson of Division of Health, Physical Education and Recreation

B.A., Whittier College

M.A., California State Polytechnic College Ph.D., Montana State University

History

FREDRICKSON, JANYTH
English as a Second Language
Chairperson of Division of English
Tayon Took University Univ

B.A., Texas Tech. University, University of Madrid M.A., Northern Arizona University

FUESLER, JACK B.

Music

Chairperson of Division of Humanities B.M.E., M.M., Northwestern University

GALAMGAM, ADELAIDA Assistant Librarian

E.T.C., Ilocos Norte Normal School B.S.E., Central Philippine College

M.S., Ed., University of Southern California

GARES, V. DALE

Vice President for Academic Services B.A., M.A., Adams State College Ph.D., U.S. International University

GENTRY, GLENN A.
Work Experience
Coordinator of Work Experience
B.S., New Mexico State University
M.S., University of Arizona

GREVATT, JAMES Psychology

B.A., San Diego State University M.A., La Verne College

GRIFFIN, WILLIAM A.

Business

Chairperson of Division of Business B.S., University of North Dakota M.A., Colorado State College

GUZMAN, CESAR Counselor

B.A., Adams State College M.S., La Verne College

HANN, RICHARD K. Philosophy

A.B., Chico State College

M.A., San Francisco State College

HAYNES, HARPER Automotive Body

Retired Auto Body Shop Owner

HEBERT, ROGER Physical Education

B.A., American International College

M.A., Boston University

HILLHOUSE, ROSANNE R.

English

n

B.A., M.A., Oxford University

JEFFCOAT, KENDRA

Psychology, Speech

B.A., M.A., University of California

M.A., Connecticut College

JERGE, MICHAEL J. Business, Economics

B.A., M.B.A., University of Arizona

KELSOE, LEON
Physical Education

B.A., M.Ed., Whittier College

KNOWLTON, ROGER

Mathematics

B.S., University of Idaho

M.S., Clarkson College of Technology

KOLLENBORN, RICHARD

Physical Education

B.A., M.A., Chico State University

KOSKI, RAUHA K.

Associate Degree Nursing

B.A., Northern Michigan University
M.N., Yale University School of Nursing

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LANFORD, CONWAY

Counselor

A.B., Fresno State College

M.Div., M.A., San Francisco Theological Seminary

M.Ed., University of Nevada

LARSSON, HAROLD J.

Astronomy, Mathematics

B.S., M.A., Columbia University

Ed., M., Harvard University

LEGARRA, STANLEY

Physical Education

B.S., M.A., University of Wyoming

LEPTICH, DEAN A.

Vice President for Student Services

B.A., M.A., San Diego State University

LEWIS, STANLEY

Agriculture, Automotive Technology

B.S., M.S., New Mexico State University

LOPEZ, HECTOR

Dean of Counseling Services

B.A., M.A., Ed.D., Northern Arizona University

ED.S., University of New Mexico

LOPEZ, RUBEN O.

Dean of External Campus

B.A., M.A., Adams State College

LOWE, JUANITA

Art

B.S., M.A., Western Carolina College

MACCI, BARBARA

Director of Early Childhood Programs

Chairperson of Division of Behavioral Science

B.A., M.A., San Diego State University

MARTINEZ, MIGUEL

Spanish

B.A., M.A., San Diego State University

McCORMICK, JOHN M.

English

B.A., Long Beach State

M.A., Northern Arizona University

MEEK, ALFRED

Associate Degree Nursing

B.S., California Polytechnic College

B.S.N., M.S., Fresno State College

MELLINGER, ELWOOD J.
Agriculture
B.S., M.A., Michigan State University

MENDELSOHN, KATHLEEN Business B.S., State University of New York

METZ, NANCY Associate Degree Nursing B.S.N., M.S., The Ohio State University

MOORE, ROBERT
Business
B.S., Auburn University
M.A., Fresno State College
Ph.D., U.S. International University

MORRIS, D. TERRY Director of Student Life and Community Services B.S., M.S., Indiana University

MURANO, ORLANDO Spanish, Italian B.A., M.A., University of California

NADEAU, NANCY English as a Second Language B.A., Florida State University M.A., University of California

NIEWENHOUS, JEAN
Physical Education, English
B.A., University of Kentucky
M.A., Northern Arizona University

ORENSZTEIN, ARMAND Mathematics B.S., M.S., University of Illinois M.A., University of California

ORTEGA, ALICIA Q. Spanish, French B.A., M.A., San Diego State University

PAULSON, CLARENCE A.
Business
B.S., M.A., George Peabody College

PENDLEY, JIMMY R. Biology Chairperson of Division of Science B.S., M.S., San Diego State University

PERSKE, GERALD K. Biological Science B.S., M.S., University of Nevada

RAULSTON, JEAN
English
B.A., Whittier College
M.Ed., University of San Diego

RICE, PAULINE BENOIT French, Humanities, English B.A., Rice University M.A., Baylor University RICHWINE, HAROLD J., JR. Chemistry B.S., Shippenburg State College M.S., Bucknell University

RODDEN, ROSE
Health Aide
R.N., St. Anthony's Hospital
B.A., San Diego State University
M.A.V.E., Consortium of California State Universit
and Colleges

RUDOLPH, WILLIAM D.

Dean of Vocational-Technical Education
B.S., M.B.A., Indiana University

SAMSON, WALTER, L., JR. History Chairperson of Division of Social Science B.S., Wisconsin State College M.A., University of Wyoming

SANTOS, RAFAEL Business B.S., Arizona State University M.B.E., University of Arizona

SCHNEEWIND, V. JEAN Associate Degree Nursing R.N., A.S., Imperial Valley College

SMITH, MARY MARGARET English B.A., Northern Colorado University M.A., San Diego State University

SPEER, WILLIAM R.
English
A.B., University of Chicago
M.A., Los Angeles State College

STANDIFORD, SANDRA Counselor B.A., University of Missouri M.S., California State College

STEARNS, HAROLD Speech, Motion Picture Production A.B., University of Southern California M.A., California State University

STONE, JAMES R.
Music
B.E., University of North Carolina
B.M., Westminster Choir College
M.M., University of Southern California
SUCZEK, PETER
Psychology, Sociology
B.A., California State University

SWEARINGEN, MICHAEL Agriculture, History B.A., California Polytechnic College

M.A., University of California

THOMPSON, BLAINE R. Business B.S., M.S., University of Utah THORNBURG, WILLIAM J.
Vice President for Business Services
B.A., University of Redlands
M.S., California State University

WUTHRICH, URSULA Vocational Nursing B.S.N., California State University

TOPPER, IRENE
Associate Degree Nursing
Vocational Nursing
R.N., Diploma, University Hospital of Chicago
School of Nursing

VALENTINE, MARTIN English as a Second Language B.A, Arizona State University M.Ed., University of Arizona

ies

von WERLHOF, JAY Anthropology M.A., University of California

WALKER, JAMES D.
Dean of the Evening College
Director of Athletics
B.S., Minot State College
M.S., North Dakota State University
Ph.D., U.S., International University

WASSON, HENRY S.
Physical Science
B.S., University of Nebraska
M.B.S., University of Colorado

WENDRICK, MELVIN
Director of Physically Limited Services
B.A., Sacred Heart Seminary
M.A., University of Michigan

WHITE, RAY A.
Automotive Technology
Chairperson of Division of Agriculture and Automotive
Technology
A.B., Fresno State College
M.A.V.E., Consortium of California State Universities
and Colleges

WILHELM, ROBERT Geography, Political Science B.S., M.A., St. Louis University

WILLIAMS, RICHARD
Psychology
B.S., University of Wyoming
M.A., San Jose State University
Ph.D., California Institute of Asian Studies

WILSON, ALFONSO Director of Financial Assistance & Placement Services B.A., M.A., San Diego State University

WILSON, PATRICIA English B.A., University of California

WOLSKI, WAYNE English B.A., M.A., University of Wisconsin

THE COLLEGE

LOCATION

The Imperial Valley College is located in Imperial Valley, long recognized as one of the richest, most productive agricultural regions in the country. The mild, delightful winters have made the region attractive to tourists and helped it to become an outstanding recreational region.

The campus is located on a 160 acre site at the intersection of Highway 111 and Aten Road. This location is in the heart of Imperial County and is within reasonable commuting distance of all of the cities of the Valley.

HISTORY OF IMPERIAL VALLEY COLLEGE

The Imperial Valley College is an integral part of the public school system of California and functions as a public community college for lower-division college work.

During its fifty-five years of service to residents of Imperial Valley, the community college movement has grown from two small colleges, organized by two high school districts, to a county-wide community college district which serves seven high schools and unified school districts.

It had its beginning on May 9, 1922, when the Board of Trustees of the Central Union High School District of El Centro passed a resolution establishing the Central Junior College. This institution formally opened for instruction in September, 1922.

Two years later, in the fall of 1924, the Brawley Union High School District opened classes at the Brawley Junior College.

Enrollments increased in both schools until the war years, when attendance dropped sharply. Brawley Junior College was forced by lack of attendance to discontinue classes at the close of the 1947 school year.

Although enrollment dropped at Central Junior College, the institution continued to operate and after the war years steadily gained in attendance.

The Associate in Arts degree was first conferred by Central Junior College in 1934.

In the fall of 1951, students, in cooperation with the administration and faculty, petitioned the Board of Trustees for a more representative name for the college, for it was now serving students from all of the Imperial Valley. By action of the Board the name was officially changed to Imperial Valley College.

The school, under the administration of the Central Union High School District, gained recognition as an accredited institution of higher education. As the institution grew with the community, this growth was reflected in the steady rise in enrollment and in the diversity of courses and curricula that was offered.

The extended-day program, which offered regular college classes at night, was initiated on a limited basis in 1952. Its rapid growth served to enlarge the service of the college to the community.

An increasing number of students from other high school districts attended the college in El Centro, and it was felt that a county-wide community college district with a campus of its own could offer much more to the students and be of greater service to the entire Valley.

A recommendation that such a county-wide commu college district be established in Imperial County submitted to the State Department of Education and approved on July 10, 1959. The County Superintender Schools then set a date for an election at which all quali voters residing within the boundaries of the seven I school and unified school districts were eligible to vote. election was held on October 6, 1959; and by overwhelming vote of twelve to one, the Imperial Va Junior College District was established. This was follow by the election of the members of the Junior College District Board of Trustees, one of whom comes from each of seven high school or unified school districts represente the area served by the Imperial Junior College District.

This District includes all of Imperial County except a sr area in the northwest corner of the County which is a par the Coachella Valley Community College District.

Because of the increase in enrollment at both Cen Union High School and the Imperial Valley College, a because of the lack of space on the campus of the Cen Union High School in El Centro, the Imperial Valley Collemoved to temporary quarters erected on the campus of Imperial Valley Union High School in Imperial, Californ

On October 4, 1960, an all-time state record was set by people of Imperial County when they voted thirteen to one favor of bonds to finance the building of a new campus

The Board of Trustees selected a nationally kno architectural firm to plan the new buildings, and a 160 a site which met the criteria recommended by the Citize Committee was selected for the new campus.

On January 13, 1971, the Board of Trustees changed name of the District to Imperial Community College District to further emphasize the close relationship college has with its service area.

FACILITIES

On October 29, 1961, an impressive ground-break service was held for the new campus. Board memb manned giant earth-moving equipment to break ground the project. The new buildings include a library, scier laboratories, fine arts rooms, student activities buildi academic classrooms, administration and faculty offic social science rooms, physical education shower and loc rooms, and agricultural education classrooms and shop. I new campus opened in 1962.

Through the judicial use of available tax funds and st aid a multi-purpose building, comparable to any such jun college building in the state, was constructed. It was designed to house sporting, musical, lecture and drama events. It was completed in April, 1967.

In 1975 the college opened a new Library and Me Center which is much larger and offers considerably mextensive learning services than the original Library. It a houses a variety of audiovisual equipment and materic circulates audiovisual equipment throughout the camp has collections of slides, tapes, filmstrips, phonograrecords, and multi-media kits that are used in the library a in classrooms.

Since 1962 the college has opened the Meyer Center Business and Commerce, a new agriculture-weldicomplex, a new student activities building, an art museu and an archaeological museum was opened in downtown Centro. In 1975 a swimming pool complex was added to steadily growing college.

MISSION AND GOALS

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The urban isolation experienced by Imperial Valley College has created the opportunity for the institution to become a leader in instituting a wide range of educational programs, services and innovations.

In view of this privileged role, the over-riding mission of Imperial Valley College is to serve our community today and in the future. We are both a leader for new ideas and a servant fulfilling the population's needs. Our offerings must reflect community interests and also present new ideas that will be of significance in the years ahead.

To fulfill this mission, we must know our constituency well. It is a unique one with highly diverse interests and educational backgrounds. The area is predominately agricultural with a large minority population, and statistically, it is a low economic sector with Imperial Valley College providing the best opportunity for advanced education and training for many of the residents.

As an educational institution, our primary responsibility is to offer high quality instruction with open access to all adults. Through our offerings, Imperial Valley College seeks to enrich the lives of our students, be it vocationally, academically, or avocationally. We must be sensitive to the individual and to his needs, with the belief that educated people build a strong community.

Our offerings must extend outside of the classroom. Through counseling, special programs, presentations and services, Imperial Valley College strives to contribute to the lives of as many citizens of Imperial County as possible.

The goals for Imperial Valley College are as follows:

- Provide quality teaching that is responsive and sensitive to the individuals served through the integrated efforts of all the staff. The college exists for the benefit of the student and our programs must be relevant to his needs.
 - PROCESS Close communication between departments, personal contact between staff and students, input by community and staff at all levels of operation, accessibility of services and personnel, diverse programs designed for a diverse population, staff training and sharing of ideas.
- 2. Provide a quality vocational and professional education for students. A major emphasis at Imperial Valley College is to equip the student with marketable skills and to allow members of the work force to upgrade their skills.
 - **PROCESS** Two-year degree programs, certificate programs with specific focus, continuing education courses.
- Develop a well-rounded formal academic program.
 Imperial Valley College offers an associate degree program comparable to that offered by colleges throughout the United States.
 - PROCESS Staff commitment to high standards and intellectual development, strong transfer program with lower division courses, developmental program to prepare students for the mainstream of college work with special attention to students whose native language is not English, preparatory classes and learning aids for students deficient in educational skills.

4. Provide enrichment and special interest programs. Education offers a means to expand horizons and grow intellectually and spiritually. These special offerings may form part of a program or be ends in themselves.

> PROCESS - Short-term programs, continuous courses in the arts and culture, encouragement of student presentations and participation, flexibility of schedules and course loads.

- Provide integrated support services for educational programs and student activities. Successful education is more than time in a classroom; it is an integrated experience.
 - PROCESS Strong counseling program, laboratories that supplement class work, a full-service library, creative and supportive student activities personnel, open cooperation and communication between areas.
- Provide services to the community at large. As a leading educational institution, Imperial Valley College recognizes a responsibility to go beyond the campus and the course.
 - PROCESS Special cultural and informational presentations open to all, entertainment, availability of resources and facilities, exchange of ideas and information with community groups, wide publicity of events and services.
- Maintain high standards through assessment, development, evaluation, improvement, and accountability. The
 commitment to excellence is an ongoing process. To
 fulfill its many responsibilities, our college must be current with its community and dedicated to improving its
 services.
 - **PROCESS** Timely needs surveys and community input, encouragement of substantiated development, meaningful evaluations of all aspects of the college program and subsequent improvements, accountability in pursuing our goals efficiently.
- Prepare students to make contributions, through knowledge, to the quality of life in the imperial Valley. Education creates opportunities and makes choices possible. Improvement of self-concept heightens respect for others and for the environment. Ultimately, it builds a solid community, a strong nation, a better world.
 - PROCESS Diverse offerings that serve the needs of our diverse community, honesty and respect for all involved, dedication to instilling high ideals and standards.

TYPES OF COURSES AND PROGRAMS

In order that Imperial Valley College may achieve its goal of serving all students who desire to learn, a variety of courses are offered. Some will equip a student with job entry-level skills and other courses provide general education for all students to assist them in living meaningful and productive lives in a complex society. Still other types of courses provide the basis for professional training offered by four-year colleges and universities.

Regardless of the interests of the students, the first two years of college work normally can be completed at Imperial Valley College. Thus students have an opportunity to begin their advanced education while still residing at home. Not only can this opportunity be of great financial assistance, but it offers an excellent transition between the high school campus and the large, often impersonal, four-year college campus. The intimate, though scholarly, atmosphere of the college; the opportunity for each student to know instructors personally; and the chance to participate in the counseling program; all offer invaluable opportunities to the student that might not be available in an institution where the very size of enrollment makes personal interest in every student more difficult. Not only can the student receive excellent personal assistance with work, but the opportunities for leadership in student affairs are increased.

Through the counseling program, a close scrutiny is given to the courses in which a student enrolls. The student plans ahead, sets up goals and systematically includes those courses of study that will be of the greatest benefit.

Many of the needs of the student who seeks employment at the end of the sophomore year can be met by a variety of occupational courses. In addition to offering a breadth of education, they meet specific needs in the shortest possible time to prepare the student for a field of employment.

These courses also offer a well organized general education program to meet the needs of the individual who has only two years to devote to post-high school education.

The community college program also includes courses of study which may be taken by adults who can demonstrate their ability to do college work but who have not had the opportunity to complete high school. Evidence of success in classes of college level will permit these adults to continue their educational endeavors.

Coordinated with the general divisions of courses at the college are four programs designed with specific types of students in mind: students who can devote only evenings to school; students who cannot fully participate in regular classes on the main campus; students who can coordinate their college study with a program of employment; and the outstanding high school 11th and 12th grade students who can profit by special work at the college level.

1. The Evening College

The Evening College, composed of regular college classes that meet at night, offers an opportunity to work for the Associate in Arts degree or Associate in Science degree, to complete regular lower-division work in a four-year program, to make up any high school deficiencies, or simply to take additional classes of interest that will add to general education.

Although evening college programs require more time to complete than the day programs, students find that with adequate planning and the assistance of a counselor, they are able to attain their higher education goals in a surprisingly short time.

2. The External Campus

The External Campus is an outreach effort by Imperial Valley College for coping with the geography of Imperial Valley, employment, family responsibilities, and other personal circumstances that make it difficult for full participation in regular classes on the main campus.

Short-term courses are offered at various intervals during the academic year. The classes are taught in satellite locations throughout the Imperial Valley in an effort to bring classes to people in their community.

3. Cooperative Work Experience

Cooperative Work Experience is a cooperative

educational program between Imperial Val Community College and community employers. college provides the organization, the coordination class facilities and the personnel for the program. employers provide places to work (work stations) on-the-job training which has educational value for students. The units of credit earned may be used to me the requirements of a certificate or a degree.

4. Attendance of Local High School Students

Local high school students attending the college up the Honors or Vocational programs are restricted spectator's role in college student activities, and excurricular participation is to be confined to the high school. Counseling is available at the college, but exeffort will be made to leave this responsibility to the high school counseling staffs.

Students must be authorized for attendance and s receive appropriate college credit. High school credi Honors or Vocational classes may be negotiated.

Students must attend high school for the minim school day.

5. Physically Limited Program

The Physically Limited Program is designed to provide supportive services to students with physical disability or health problems. The program provides prefered registration, counseling, class scheduling, tutor mobility assistance, interpreting, braille transcribing adaptive physical education, special parking and rising assistance.

Admission of 11th and 12th Grade High School Stude

The president of any two-year community college of admit to the community college as a special part-ti student any 11th or 12th-grade high school stude whose admission is recommended by the high school principal. A principal of a high school may recommendigh school student as a special part-time stude pursuant to rules and regulations which may be adoped by the governing board of the district maintaining high school. A principal of a high school shall recommend a number of high school students in except of 15 percent of the total number of 11th and 12th-grastudents enrolled in the high school at the time recommendation.

The student is authorized attendance at communicollege as a special part-time student pursuant to the section and shall receive credit for community college courses completed in the same manner as if regular enrolled at the community college unless, upon agriculture ment between the two districts, the student receives his school credit for the course completed.

Each special part-time student shall attend high sch classes for at least the minimum schoolday.(E.C.76)

Admittance of Pupil Who Has Completed 11th Grade Summer Session: Crediting Summer Session Attenda

The president of any two-year community college madmit to the summer session of the community college as a special student any high school student who is completed the 11th grade and whose admission summer session is recommended by the principal of high school in which the student completed the 1 grade. A principal of a high school may recommend such a student as a special student pursuant to rules a regulations which may be adopted by the govern

board of the district maintaining the high school. A principal of a high school shall not recommend a number of students who have completed the 11th grade in excess of 5 percent of the total number of students in the high school who have completed the 11th grade immediately prior to the time of recommendation.

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The attendance of a student at community college as a special summer session student pursuant to this section shall be credited to the district maintaining the community college for the purposes of allowances and apportionments from the State School Fund, and the student shall receive credit for community college courses completed, in the same manner as if a regularly enrolled community college student. (E.C. 76002)

DEGREES

The Board of Trustees, on recommendation of the president and faculty of the college, is authorized in accordance with Article 12, Section 102, of the State Administrative Code, Title 5, to confer the Associate in Arts (A.A.) and the Associate in Science (A.S.) degrees. Conditions under which the degrees are granted are outlined in the section on graduation requirements.

The community college degree is awarded to a student who fulfills a two-year organized program of work, either of an occupational-vocational-technical type or of a lower-division four-year college type. A student who wishes to transfer to the upper division of a four-year college must satisfy the course, unit, and grade requirements of the college he wishes to enter.

SCHOLASTIC HONORS Graduation Honors

"With Distinction" is accorded those graduates who in the course of their entire college work have achieved a grade point ratio of 3.5 or higher.

"With Honors" is granted to those graduates who achieve a grade point ratio of 3.0 in their college work.

President's Honor List

The president of the college gives special recognition to top scholars each semester by publishing a list of students whose grades for the previous semester show a 3.0 average or better in twelve or more units of work.

Alpha Gamma Sigma

Initial Membership. A person may attain initial membership if the person has:

- Completed 12 semester units in a maximum of 3 semesters and has
- A cumulative grade point average of 3.25. No units acquired more than two years prior to application for initial membership shall be used prohibitively.

Continuing Membership. An initial member may attain continuing membership by:

- Achieving for the previous semester not less than a 3.25 GPA in courses of recognized college standing,
- Maintaining a cumulative GPA of 3.25 or better in courses of recognized college standing.
- Continuing members will receive one semester's grace for every semester of earning continuing membership. If the continuing member's GPA falls below 3.25 but remains above 2.5 (either per semester or cumulative), he may apply one semester's grace

earned to maintain continuing membership for the semester the earned GPA would apply. There shall be no two consecutive grace periods.

Permanent Member. Any person who has completed a minimum of 60 units of recognized college courses with a minimum of 30 units completed at a community college who applies for permanent membership and who meets either of the following requirements:

- A person who has maintained a cumulative grade point ratio of 3.5 or above in all recognized college work.
- Any continuing member who has maintained a cumulative GPA of 3.25 or better in all recognized college work and has been a member of AGS, Inc., for a minimum of two semesters.

Any courses completed two years prior to application for permanent membership, whether at a community college or other institution of higher education, shall not be used to prohibit any person from becoming a permanent member.

FINANCIAL ASSISTANCE

Imperial Valley College believes that no student who has the ability to profit from instruction should be denied an education due to a lack of financial means.

There are several types of aid available to needy, deserving students each year. This assistance is made available by the college district, the state and federal governments, civic groups, and individual citizens.

The college participates in available federal financial aids programs.

In addition to the federal programs, there is aid available from the state and the local district in the form of scholarships, work-study grants, and loans.

Further information regarding financial assistance may be secured from the Financial Assistance and Placement Services Office located in the Counseling Center.

EXPENSES

There is no tuition charge for students who are legal California residents. Tuition for out-of-state students and out-of-country students is \$73.00 per unit with a maximum of \$1095.00 per semester with no exemptions.

Expenses normally incurred by all students are for books and supplies. These expenses average approximately \$70.00 a semester, but vary depending upon the courses that are taken.

REGISTRATION FEE

The College accesses a \$25.00 Registration Fee (\$15.00 Registration Fee for External Campus) each semester. This fee, as it indicates, is for registration and once a student registers the fee is due and nonrefundable. The registration fee is waived for persons 60 years of age or older and those who are legally blind.

TUITION REFUND POLICY

Refund in full will be received for the following:

- 1. Tuition collected in error
- 2. Discontinued class

Refund Schedule

100%- Before the first day of classes

75%- During the first week of classes

50%- During the second week of classes

25%- During the third week of classes

0%- During the fourth week and thereafter

ACCREDITATION

The college is officially accredited by the Accrediting Commission for Junior Colleges, Western Association of Schools and Colleges, National League for Nursing, American Welding Society, and the State Department of Education. The University of California and other colleges and universities give full credit for transfer courses completed here.

COUNSELING AND GUIDANCE SERVICE

It is the aim of Imperial Valley College to provide all students with pertinent information which they will need in the formulation of their goals and objectives and to assist them in making the most of their potentialities and training. Counseling is made available by professional counselors, well-skilled and trained in the areas of academic, vocational, and personal counseling. The Counseling Center is open between the hours of 8:00 a.m. and 9:00 p.m., Monday through Thursday, and 8:00 a.m. and 5:00 p.m. on Friday. A Career Center is located in the Counseling Center and provides extensive vocational and career information.

Although counselors assist in long-range planning and in checking specific requirements, THE RESPONSIBILITY FOR MEETING GRADUATION REQUIREMENTS OR REQUIREMENTS FOR TRANSFER TO OTHER COLLEGES OR UNIVERSITIES MUST BE ASSUMED BY EACH STUDENT. In the Counseling Center students have access to a reference library of catalogs from various colleges and universities.

STUDENT ACTIVITIES

Student affairs are governed by the Associated Students of Imperial Valley College.

Those students who are socially inclined will find an opportunity for the development of their interests in clubs and the social affairs of the year. Others who are interested in athletics will benefit from a variety of intercollegiate sports; and those who are interested in music, publications, or student government will find many opportunities for participation in these activities.

BOOKSTORE AND COLLEGE CENTER

The college bookstore is maintained by the district through a lease arrangement with a private company. All college textbooks and necessary supplies are available. The College Center Building contains a snack and coffee bar that provides refreshments and meals for the students.

ATHLETICS

The college is a member of the Desert Conference, consisting of Barstow, College of the Desert, MiraCosta, Mount San Jacinto, Palo Verde, Victor Valley and Imperial Valley. The Desert Conference is a part of the Southern Section of the California Junior College Association. Intercollegiate competition is held in football, basketball, wrestling, golf, track, cross country, tennis, baseball, volleyball, soccer, and softball.

LEARNING SUPPORTIVE SERVICES

Learning supportive services are designed to provide extensive programs for remediation and enrichment learning and to offer courses designed for the student to gain mastery of study skills and learning techniques. Tutorial

assistance services are also available in the Lear Supportive Services Center, and a newly organized Imp Valley College Tutors Club provides many acad enrichment activities for students interested as tutor addition, bilingual services exist for students with lin English-speaking ability and who desire acad assistance in lingual interpretation in their courses.

The Learning Supportive Services Center houses a va of audiovisual equipment and media. It has an exter inventory of slides, tapes, filmstrips, records, multi-middles, and other instructional learning materials we supplement the broad subject range of courses offere this campus. An extensive videocassette library has developed which provides students with an opportunity view educationally relevant television broadcasts motion pictures.

Nursing and Health Technologies maintains an a visual center and learning laboratory in the 800 buildin has an extensive collection of media materials related to nursing and health fields. Bilingual nursing tutors a students in mastering concepts and skills relating to courses.

REGULATIONS

ADMISSION

Admission to Imperial Valley College is governed by laws of the State and such supplementary regulation prescribed by the Board of Trustees. Students who reg for eight or more units of work in a given semester or units accumulation of eight or more units, are require (1) ensure that an official transcript of all work taken in school and/or institutions of higher education are on fithe Registration Office; and (2) complete the college planent tests (unless they have completed regular colleges in both English and mathematics).

All students are admitted under one of the follow classifications:

- High school graduates or equivalent certific (General Educational Development or California I School Proficiency Examination)
- 2. Non-graduates of high school who are eighteen y of age.
- High school students who are recommended by high school principal for one to nine units of work. (I submit a Concurrent Enrollment Form). Extracurricular ticipation is to be confined to the high school. These dents must attend high school for the minimum school
- College transfers who submit official transcripts (school and college) may be granted advanced standin
- Prospective foreign students and students from c states may be accepted for enrollment. A tuition fee wi charged. Contact the Registration Office for current co

TRANSCRIPTS

Imperial Valley College furnishes two free transcr Thereafter, a fee of \$2.00 is charged for each additional is script. Requests for transcripts will not be honored unioutstanding obligations to the College are met. FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

All educational records of students who enroll at Imperial Valley College are kept in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974.

The following information will be available in the Admissions and Counseling offices on each enrolled student: name, address, telephone, birthdate, registration number, list of classes and section numbers, instructors, units, room numbers, hours in which the student is enrolled, dates of attendance, activities participated in and degrees awarded. Any student who does not wish his or her name included on this listing must file a petition requesting deletion from the list before the opening of the school term.

For additional information or a copy of the entire law, contact the Vice President for Student Services in the Administration Building.

AFFIRMATIVE ACTION POLICY

The District adopted an Affirmative Action Plan in 1973. The Plan was revised in 1979 and in 1981. The establishment and development of the Plan demonstrates the District's commitment to affirmative action and equal employment opportunities for all employees and prospective employees. The Plan is available in the Spencer Library Media Center, the Superintendent's office and the Affirmative Action Officer's office.

NON-DISCRIMINATION POLICY

Imperial Valley College does not discriminate in the admission nor in the offering of programs and activities because of race, color, religion, age, marital status, national origin, sex, or handicap.

RESIDENCE REQUIREMENTS

Each person enrolled in or applying for admission to a California community college is, for purposes of admission and tuition, classified as a "district resident" or a "non-resident."

Students classified as State of California residents will be admitted to the College without payment of nonresident tuition. Students classified as nonresidents will be required to pay tuition in an amount set by the governing board.

- A State of California resident is a person who has resided within California for at least one year and a day prior to the term of enrollment.
- A "nonresident" student is one who does not have residence in the State of California for more than one year and a day prior to the term of enrollment.

Residency requires physical presence in California with an intent to make one's home here.

Examples of evidence that aid the college admissions officer in identifying that intent, but which are not individually decisive, are possession of a document of California origin such as a driver's license, a current utility bill, a receipt for registration to vote, a current lease, rental agreement or rent receipt showing the student's name and address and place of residence, a library card, last year's state and federal income tax information, a current charge account or credit, or a checkbook.

Any one or a combination of these gives some indication to the admissions officer of the student's intent. Possession of the necessary intent coupled with the durational requirement of one year will satisfy the residency requirements, and the student may be classified as a resident student.

Unmarried minors (those under 18 years of age) are by law incapable of establishing their own residence, notwithstanding their physical presence within California. An admissions officer will use the following guidelines for the determination of a minor applicant's residence:

If the minor's parent father is living, the residence of the father is the residence of the minor. If the father is not living, the residence of the natural mother is the residence of the minor. If the natural mother has remarried, and she has not established her own residence following such marriage, the resident of the step-father is the residence of the minor. In cases of adoption or guardianship where either natural parent is not living, the residence of the adopting parent or the guardian is the residence of the minor.

Persons under eighteen whose parents are not living and who do not have legal guardians may establish their own residence. However, students who are minors and have parents living may not by their own act establish residence, nor will the appointment of a guardian or the relinquishment of the parent's right of control give minors the ability to establish their own residence.

Exceptions to the determination of residency as set forth above may be applied to certain factual situations. If students would otherwise be classified as nonresidents, but fit within one of the following exceptions, they may be granted resident classification until they obtain such classification.

Exceptions may be granted for:

- a. Minors who remain in California after their parents, who had previously resided within California, but moved from the state prior to the resident classification.
- Minors who have been self-supporting and in California for one year preceding the day before the term will be granted resident classification.
- c. Minors who have not been adults for more than one year prior to the resident determination date may add their pre-18-years-of-age residence to their post-18years-residence to obtain the durational requirements.
- d. A child or a spouse of a member of the armed forces stationed in California will be granted resident classification. A person who is a member of the armed forces not assigned to California for purposes of education may be entitled to resident classification for a period of one year. During that year, the person must establish a residence or the individual will be subject to nonresident tuition for any subsequent enrollment.
- e. Adult aliens lawfully admitted for permanent residence and present for one year will be given resident classification. Minor aliens may use parents' durational presence to satisfy the one-year requirement.
- f. A student holding a valid credential authorizing service in a public school and employed in a certificated position by a community college district will be given resident classification.
- g. A student who is an apprentice within the meaning of Section 3077 of the Labor Code is entitled to resident classification.

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admissions officer of the student's Intent. Possession

- h. A student who is a full-time employee of a California institution of public higher education or whose parent or spouse is a full-time employee may be granted resident classification at the option of the institution of enrollment.
- i. A student may be classified as a district resident if he lives with a parent who earns a livelihood primarily by performing agricultural labor for hire in California and other states and the parent has performed such labor in this state for at least two months per year in each of the two preceding years, the parent lives within the district which maintains the community college attended by the student, and the parent claims the student as a personal dependent on his state or federal personal income tax returns if he has sufficient income to have a personal income tax liability.
- j. A student may be classified as a district resident if he earns a livelihood primarily by performing agricultural labor for hire in California and other states and he has performed such labor in this state for at least two months per year in each of the two preceding years.

STUDY LIST LIMITATIONS

A regular full-time program is 12 to 18 units. An average of 15 to 16 units must be taken to graduate in two years or four semesters.

The maximum load allowed for students is 18 units, including an activity course in physical education. Exceptions to this rule will be made by special permission of the administration (through the petition process) when there is clear evidence of successful scholastic performance.

A student who is currently enrolled in another school or college (including correspondence school or independent study) must report this enrollment to the Registration Office. The total number of units carried during a semester for all college work may not exceed the 18 unit limit.

CHANGES IN CLASS SCHEDULES

When registering, it is expected that a student's registration schedule shall not be completed on a trial basis; therefore, students are expected, at the time they file their registration to make no further change. If a change must be made, students may add classes within a designated period at the beginning of each semester. Changes will be made by obtaining an add card and approval of the instructor and then filing with the Registration Office.

SCHOLARSHIP GRADING SYSTEM

Grades are based upon the quality of work done, that is, upon actual accomplishment in courses offered for credit. Grades showing the standing of students are issued at the end of each semester.

A grade point average of 2.0 (C) or higher must be earned in all work undertaken.

1. GRADES

- A Superior
- B Better Than Average
- C Average
- D Passing
- F Failing
- I Incomplete

UNFINISHED WORK, OTHERWISE PASS indicating that (because of medical or other cient reason) an important assignment such as a paper, final examination, or experiment is miss

An Incomplete (I) grade, which is not made up to end of the sixth week of the next regular semishall remain as an Incomplete (I) grade on the dent's transcript rather than being converted to grade. The Incomplete (I) will not develop unit honor points for the purpose of computing of point average or calculating total units.

2. CREDIT GRADE

Certain courses designated by the appropriate divimay be taken for a Cr grade. The student may declaintentions at any time during the semester.

- a. Cr will reflect a letter grade of C or higher.
- b. NC will reflect incompletion of a credit class
- Cr grades are permissible except in the stud major field at Imperial Valley College.
- d. Students applying for Cr must adhere to the class standards or regulations as a stureceiving a regular grade.
- A maximum of 16 units may be taken on a c basis with a limit of one class per semester.
- The Cr grade will satisfy completion of prerequipments of presequence class.

3. WITHDRAWAL GRADES

W-Withdrawal

A student may withdraw from any course or fron college during the semester by obtaining the signs of the instructor on a drop card and filing the drop cathe Registration Office.

Any instructor may withdraw a student during the fourteen weeks for excessive absences or for disciary reasons.

Grades at the time of withdrawal under either circ stance will be assigned in accordance with the followschedule:

Weeks of Semester Grade
1 through 14 W
15 through 18 other than a W

All withdrawals are official after being processed by Registrar's Office. If the withdrawal is signed by both student and instructor, it is an official withdrawal. I signed only by the instructor, it is considered an uncial withdrawal. The "W" will normally be given to student during the 1st through the 14th week of semester. The student shall be given a letter grade of than a "W" after the 14th week.

4. REPEATED CLASSES

Procedures for repeated classes:

- Students wishing to repeat a class, in which a g
 of D or F was given, must obtain a request form
 receive approval from the Registration Office.
- For approved courses being repeated, the Registion Office will record an "R" by the letter grade, units and grade in the previous class will be use computing total units and grade point aver Repeated classes that are not officially approved not be allowed for graduation.

5. GRADE POINTS

Grade points, per semester unit, are assigned as follows:

A-4 grade points per unit

B-3 grade points per unit

C-2 grade points per unit

D-1 grade point per unit

F-0 grade points per unit

Cr-0 grade points per unit;

units not charged against the student

NC-0 grade points per unit; units not charged against the student

I-0 grade points per unit; units not charged against the student

W-0 grade points per unit; units not charged against the student

The grade point average is computed by dividing total grade points earned by total units attempted. Thus in any given semester, if the grade points earned total 28 and the total units attempted equals 14, the grade point ratio is 2.00.

6. CREDIT BY EXAMINATION

An enrolled student may petition to take an examination in lieu of course work between the sixth and fourteenth weeks of each semester. A maximum of 25 units may be used toward graduation through this process. No more than 15 units per semester will be authorized. The fee will be \$20.00 per unit plus \$10.00 for administrative costs for each examination administered. The credit by examination petition is available in the Registration

7. MILITARY CREDIT

A Guide to the Evaluation of Educational Experiences in the Armed Services, American Council on Education, is used to evaluate military school credit.

- Presentation of the DD214 by petition may allow the veteran 6 units of credit for basic training (4 units for physical education and 2 units for health education).
- Additional military credit will be considered by petition and presentation of proper documentation.
- Total number of units of military credit is not to exceed 16.

8. CREDIT FOR UPPER DIVISION COURSE WORK

Upper division credit may not be applied toward an Associate Degree. The only exception is the credit received for an upper division course which is also offered as a lower division course.

9. ACADEMIC RENEWAL

If a student returns to Imperial Valley College after five years of absence, he may petition for the exclusion of any given semester's work. If any part of a semester's work is to be excluded, the entire semester's work must be excluded with respect to grades, units and course requirements. Once a semester has been excluded, it may not be reinstated.

SEMESTER GRADE REPORTS

An end-of-the-semester grade report is issued to each student by the Registration Office after the semester's work has been completed.

STUDENT CONDUCT

It is assumed that the entry of a student into Imperial Valley College constitutes the student's acceptance of the Standards of Student Conduct and the regulations published by the college. The Standards may be found in the Handbook for Faculty Advisors and Student Leaders, which is available in the Office of Student Life and Community Services.

ACADEMIC PROBATION

Academic Probation is a system of monitoring student progress in order to identify students who are experiencing difficulty in making satisfactory progress toward an appropriate educational objective, and providing special assistance to students in reassessing their educational objectives and guiding them to accomplish these goals.

Students who are placed on probation will be identified as early as possible at the termination of each semester and will be referred to the Counseling Center.

There are two types of Academic Probation:

Scholastic Probation

Any student who completes more than six units in any semester and earns less than a 2.00 grade point average will be placed on Scholastic Probation. A student will remain on Scholastic Probation until the student's grade point average is 2.00 or better.

Lack-of-Progress Probation

At the end of each semester, any student who has accumulated a recorded enrollment in 15 or more units, may not receive more than 50 percent of those units in nonacademic grades (W, WF, NC) and will be placed on Lack-of-Progress Probation until the completed units are 50 percent or more of the student's recorded enrollment.

PROVISIONAL STATUS

A newly enrolled freshman who is enrolled in more than six units and who falls into one of the categories listed below shall be admitted on provisional status:

 Grade point average in the last three years of high school was less than 2.0 (grade C on a five-point scale with zero for an F grade) excluding only physical education and military science.

A = 4.0

B = 3.0

C = 2.0

D = 1.0F =

Student is not a high school graduate.

Students on provisional status shall develop with a counselor a course of study commensurate with their ability. They are required to hold periodic conferences with a counselor and their program may be regulated by a counselor according to their aptitudes and achievement.

Provisional status is removed when students have successfully completed 12 units of work.

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PETITION AND HEARING PROCESSES

Formerly and currently enrolled IVC students are entitled to seek and receive responses to any questions related to their educational programs in accordance with the Imperial Community College District educational philosophy.

Petition Process

The petition process is used to request exceptions to the rules or regulations in order to meet the student's special needs or circumstances.

Petition Procedure

The student will use a petition form (available in the Registration Office and Counseling Center) and submit their requests to the Vice President for Student Services who will review the request and provide a resolution. If the student is not satisfied with the resolution, a request may be made to the Vice President for Student Services for a hearing before the appropriate committee.

Hearing Process

There are three established areas which may require hearing procedures for students and campus organizations seeking responses to educational questions or issues. These are:

- 1. Standards of Student Conduct
- Access to Student Records and Challenge Procedure
- 3. Grievance Procedure Policy in Matters of Non-Discrimination

Hearing Procedure

Students and campus organizations are requested to summarize their concerns or issues in writing and submit them to the Vice President for Student Services who is designated coordinator of the hearing procedures.

ATTENDANCE AND AUTOMATIC WITHDRAWALS

A student who fails to attend the first meeting of a class will be dropped by the instructor immediately following that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class.

Regular attendance in all classes is expected of all students enrolled. Instructors are expected to take a student's attendance record into account in computing grades. A student may be excluded from further attendance in a class during any semester when absences after the close of registration have exceeded the number of class hours which the class meets per week. Further, an instructor may drop any student judged to be a disturbing element in the class.

A student who is tardy three times may be considered as having been absent once. Absences attributed to the representation of the college at officially approved conferences and contests and attendance upon field trips will not be counted as absences.

VOLUNTARY WITHDRAWAL

A student who is required to withdraw from college because of extenuating circumstances must contact the Registration Office for the procedures to be followed. See "Withdrawal grades."

ACADEMIC DISMISSAL

Academic Dismissal is a system of forced interrupti attendance at Imperial Valley College in those insta where a student is unable to maintain satisfactory proin achieving academic programs within the limit of avairesources of the college.

Students are subject to the following two types of demic dismissal:

Scholastic Dismissal

Scholastic Dismissal occurs at the end of the Sp semester when a student has previously been place Scholastic Probation, and has completed 30 or more with a grade point average of 1.75 or less. The studen not be allowed to enroll during the next semester of current summer session (except by special approval opetition to the Admission, Registration and Petitions C mittee).

Lack-of-Progress Dismissal

Lack-of-Progress Dismissal occurs at the end of Spring semester when a student has previously been plon Lack-of-Progress Probation, and has accumulate recorded enrollment of 30 or more units, and more that percent of those units are non-academic grades (W, I, N). The student will not be allowed to enroll during the semester or current summer session (except by spapproval upon petition to the Admission, Registration Petitions Committee).

PHYSICAL EDUCATION

Students under 21 years of age and registered for a than eight units shall be required to register and pa physical education activity class each semester for semesters (a maximum of four P.E. activity classes i quired).

Exemptions may be granted for:

- Physical disability (medical excuse required)
- 2. Age, twenty-one or over
- Postgraduate standing
- Completion of basic or recruit training in any of Armed Forces of the United States

The student must provide a uniform as prescribed by physical education department.

Students who fail to enroll or are dropped by their ins tor from a physical education activity class will be requ to reduce their class load to eight units or less.

CHANGES IN THE CATALOG

Any regulation adopted by the administration of Imp Valley College shall have the same force as a pri regulation in the catalog and shall supersede, upon ap priate public announcement, any ruling on the same sul which may appear in the printed catalog or official bull of the college.

A student may be graduated under the catalog in effethe time of initial enrollment provided a continuous enment status is maintained during each semester (exclusummer sessions) of not less than six units of work for washing grades are earned.

GRADUATION REQUIREMENTS

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ASSOCIATE DEGREES

Upon the completion of the following requirements, students at Imperial Valley College will be granted the degree of Associate in Arts or Associate in Science, depending upon the major completed. Responsibility for filing a petition for graduation rests with the student. This petition is to be filed with the Registrar not later than the end of the 6th week of the fall semester, the 4th week of the spring semester and the 1st week of summer session.

Students may participate in the graduation ceremony only once and may receive only one diploma. Additional degrees, however, are posted on the permanent record.

The requirements for graduation represent not only the minimum general requirements outlined by the State, but also the firm commitment on the part of Imperial Valley College to the principles of general education. These requirements in general education are designed to develop the potential of every student, broaden his outlook, and contribute to the realization of the well-balanced whole man.

ACQUISITION OF MAJOR CONSISTING OF EIGHTEEN UNITS (UNLESS OTHERWISE DESIGNATED) IN A SPECIFIED FIELD OF STUDY

Students may satisfy the major requirement in the following fields of study. Individual courses of study for each major are listed after the Courses of Instruction.

A.S.—Agricultural Business

A.S.—Agricultural Chemical Technology

A.S.—Agriculture Mechanics

A.S.—Animal Science A.A.—Anthropology

A.A.-Art

A.S.—Automotive Body Repair and Painting

A.S.—Automotive Technology

A.A.—Banking—Administrative Services

A.A.—Banking—Credit Administration A.A.—Banking—Secretarial A.A.—Banking—General Operations

A.A.—Behavioral Science

A.A.—Bilingual-Bicultural Studies

A.S.—Bookkeeping

A.A., A.S.—Business Transfer

A.A., A.S.—Business Supervision

A.S.—Carpentry

A.S.—Cosmetology A.A.,A.S.—Data Processing

A.A., A.S. - Early Childhood Education

A.S.—Engineering

A.S.—Engineering Technology

A.A.—English

A.S.—Fire Science

A.A.—Foreign Language

A.S.—Graphic Arts

A.A.,A.S.—General Business

A.A.,A.S.—General Major
A.A.—General Office Technician

A.A., A.S. — General Science

A.A.—Gerontology

A.A.—Governmental Management

A.A.—Human Relations—Community Mental Health Worker

A.A.—Human Relations—Counseling, School and Social Services

A.A.—Human Relations—Personnel, Employment, Counseling and Supervision

A.A., A.S. — Individual Interdisciplinary

A.S.—Industrial Power Technology

A.A.—Journalism

A.S.-Law Enforcement

A.A.—Legal Assistant

A.A.—Liberal Studies—Elementary Teacher Preparation

A.A., A.S. - Life Science

A.S.—Machinery Operation and Maintenance

A.A., A.S. — Marketing—Sales Technology

A.A.,A.S.—Mathematics A.A.—Medical Office Assistant

A.A.—Motion Picture Production

A.A.-Music

A.S.—Nursing—Registered

A.S.—Nursing—Vocational

A.A.—Photography

A.S.—Physical Education A.A.,A.S.—Physical Science

A.S.—Plant Science

A.A.-Real Estate

A.S.—Recreation

A.A.—Rehabilitation Technician for the Physically Limited

A.A.,A.S.—Secretarial A.A.,A.S.—Social Science

A.S.—Soils and Water Technology

A.A., A.S. - Speech Pathology and Audiology

A.A.—Teacher Aide A.S.—Water Treatment Technology

A.S.—Welding Technology

II. STATE AND INSTITUTIONAL REQUIREMENTS

- A. Sixty units plus physical education if required.
- B. Grade point average of 2.0 or better for all college work.
- Completion of a minimum of forty-five units in residence, or completion of at least the last fifteen units at Imperial Valley College.
- D. Settlement of all financial obligations to the college.

III. SUBJECT AREA REQUIREMENTS

- A. American Institutions (Complete any one of the following):
 - Soc Sci 52—Intro. to American Government
 - Hist 17AB-United States History
 - Poly Sci 1-Intro. to Political Science and Poly Sci 2-American Government & Politics

- Hist 17A-United States History and Poly Sci 2-American Government & Politics
- Poly Sci 1-Intro. to Political Science and Hist 17B-United States History
- Hist 8AB—History of the Americas
- B. HE 1-Health Education or HE 3—Health Education (military service) if required
- C. Physical Education (if required).
- D. Math 51 (if required) (Ag 50, Auto Tech 50, Math 50, PL 50, Weld 50 may be substituted)

IV. GENERAL EDUCATION

A minimum of 15 units which shall include at least one course in each of the first three areas (a., b., c.) and two courses in area four (d).

a. Natural Science

Ag 5 (Also Env Sci 5) Man and His Environment Ag 14 Entomology Anat 8 Human Anatomy Anat 10 Human Anatomy and Physiology Astron 21 Elementary Astronomy Bio 3 Principles of Biological Science Bio 21 General Microbiology Bot 1A General Botany Chem 1A General Inorganic Chemistry Chem 2A Introduction to Chemistry Geog 1 Physical Geography Geol 1A Physical Geology Geol 10 (Also Zool 10) Life of the Past: An Introduction to Paleontology Geol 11 General Geology: An Introduction to Geology Geol 12 Introduction to Historical Geology Geol 14 General Paleontology, Dinosaurs, Sabretooths and Man Nat Sci 51 Survey of the Earth Sciences Phys Sci 25 Introduction to Physical Science Phys 2A General Physics Phys 4A Principles of Physics Physio 1 Human Physiology Zool 1A General Zoology

b. Social Science

Anthro 1 Physical Anthropology Anthro 2 Cultural Anthropology Anthro 3A Intro. to Archaeological Site Surveying Anthro 3B Intro. to Archaeological Excavations Anthro 4 California Indians Anthro 5 Archaeology: Theory, Prehistory and Laboratory Anthro 6 Indians of North America Anthro 7 Classic Civilizations of Pre-Historic Meso-America Anthro 8 Indians of the Southwest **Bus 2 Introduction to Business** ECE 28 (Also Psych 28) Administration and Supervision in Early Childhood Education Econ 1 Principles of Economics Econ 2 Principles of Economics Geog 2 Cultural Geography Geog 3 Economic Geography Hist 10 History of Modern Russia Hist 30 Mexico and the American Southwest

Hist 40 (Also Span 40) Civilization of Spain Portugal Hist 41 (Also Span 41) Civilization of Spani America and Brazil Poly Sci 3 Comparative Politics Poly Sci 14 Introduction to International Rel Psych 1A General Psychology Psych 1B Advanced General Psychology Psych 2 Introduction to Physiological Psych Psych 3 (Also TA 3) Psychology of Persona Social Adjustment Psych 5 Psychology of Effective Behavior Psych 9 (Also HR 9) Interviewing and Coun Psych 11AB (Also HR 11AB) Practicum Psych 14 Abnormal Psychology Psych 17 (Also Sociol 17) Social Psycholog Psych 20 (Also ECE 20) Developmental Psych of Children Psych 21 (Also ECE 21) Early Childhood Soc tion: Children, Family and Community Psych 22 (Also ECE 22) Principles of Child Development and Observation Psych 23 (Also ECE 23) Early Childhood Developmental Curriculum Psych 24 (Also ECE 24) Creative Learning **Experiences for Young Children** Psych 27 (Also ECE 27/PL 1) Understanding **Exceptional Students** Psych 30 Psychology of Adolescence Psych 46 (Also LE 46) The Mentally III, Alco Drug Addict and the Law Social 1 Principles of Sociology Sociol 2 Contemporary Social Problems Sociol 33 Marriage and the Family c. Humanities (Language, Literature, Philosop Fine Arts) Art 3A History and Appreciation of Art Art 3B History and Appreciation of Art

Art 4 History and Appreciation of Modern A ** Art 30A Introduction to Art

Drm Art 5A History of World Drama Drm Art 5B History of World Drama Drm Art 23 Modern Drama

Eng 1B Introduction to Literature Eng 2 Introduction to English Linguistics

Eng 3 (Also Hum/MPP 3) Introduction to Fi History and Criticism

Eng 15 American Literature

Eng 16A World Literature

Eng 16B World Literature

Eng 17A Survey of English Literature

Eng 17B Survey of English Literature Eng 18AF Literature for Pleasure

Eng 20AF Studies in Literature Eng 25AF Introduction to Shakespeare

Eng 30A (Also Span 28A) The Mexican Ame

in Literature

Eng 30B (Also Span 28B) The Mexican Ame in Literature

Eng 36 The Bible as Literature

Fr 1 Elementary French Fr 2 Elementary French

** Fr 1A Elementary French

** Fr 1B Elementary French ** Fr 2A Elementary French

** Fr 2B Elementary French Fr 3 Intermediate French Fr 4 Intermediate French

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** Fr 10 Intermediate Conversational French Fr 11 Intermediate Conversational French

** Fr 20A French Drama—Reading and Performance ** Fr 20B French Drama—Reading and Performance Fr 40 (Also Hum 40) Introduction to French

Civilization and Culture Fr 41 (Also Hum 41) Introduction to French

Civilization and Culture Beyond France Fr 51 French Culture, Cuisine and Conversation

Ger 1 Elementary German

Ger 2 Elementary German Ger 10 Conversational German

Ger 11 Conversational German

Hist 4A History of Western Civilization

Hist 4B History of Western Civilization

Hum 1A Man and the Arts Hum 1B Man and the Arts

Hum 25 The Humanities Hum 26 The Humanities

Hum 40 (Also Fr 40) Introduction to French Civilization and Culture

Hum 41 (Also Fr 41) Introduction to French Civilization and Culture Beyond France

** Ital 1A Elementary Italian

** Ital 1B Elementary Italian Jrn 3 Mass Communications

Jrn 4 Journalistic Issues ** Mus 17AF Chamber Singers

** Mus 18AF Chamber Orchestra

Mus 20A History and Literature of Music Mus 20B History and Literature of Music

** Mus 25AF Stage Band

** Mus 27AF Concert Band

Mus 30 Intro. to Music Literature and Listening Mus 31 Introduction to Twentieth-Century Music

Phil 1A Introduction to Philosophy

Phil 1B Introduction to Philosophy

Phil 11 Ethics

Phil 25 Religions of the Modern World

Span 1 Elementary Spanish ** Span 1A Elementary Spanish

** Span 1B Elementary Spanish

Span 2 Elementary Spanish ** Span 2A Elementary Spanish

** Span 2B Elementary Spanish Span 3 Intermediate Spanish

Span 4 Intermediate Spanish

** Span 5A Beginning Conversational Spanish and Culture

** Span 5B Beginning Conversational Spanish and Culture

Span 10 Intermediate Conversational Spanish

Span 11 Advanced Conversational Spanish Span 20A Beginning Bilingual Spanish

Span 20B Beginning Bilingual Spanish

Span 21 Intermediate Bilingual Spanish Span 22 Advanced Bilingual Spanish

Span 23 Bilingual Oral Spanish

Span 24 Introduction to Spanish Literature

Span 25 Introduction to Spanish American Literature for Bilinguals

Span 28A (Also Eng 30) The Mexican American in Literature

Span 28B (Also Eng 30B) The Mexican American in Literature

Span 40 (Also Hist 40) Civilization of Spain and Portugal

Span 41 (Also Hist 41) Civilization of Spanish America and Brazil

Span 42 Intro. to Mexican American Studies

** Span 53 (Also Mus 55) Beginning Guitar and Mexican Folk Songs for Spanish Speakers

**Span 54A Beginning Conversational Spanish for

**Span 54B Beginning Conversational Spanish for Careers

d. Learning Skills

1. Eng 1A Reading and Composition Eng B Basic English Composition Eng 51 The Communication Process Jrn 1 Introduction to Journalism and

One of the following:

Aq 20 Animal Science Ag 28 (Also HM 35) Heavy Equipment Operation and Maintenance Art 18A Watercolor Painting Art 20A Drawing Art 22A Design

Art 23A Ceramics

Art 24AB Ceramic Sculpture

Art 26 Design in Crafts Art 27 Creative Handweaving

Art 28 Technical Ceramics Art 29A Jewelry

Art 29B Jewelry Art 31 Crafts

** Art 40 Exploration of Acrylic Painting Techniques

Auto Body 70 Auto Body Repairing & Painting Auto Tech 51 Engine Technology

Bus 9 (Also Math 17) Math for Business **Analysis**

Bus 10A Practical Bookkeeping

Bus 11 (Also Soc Sci 69) Personal Finance

Bus 12 Personal Income Tax **Bus 20 Elementary Typewriting **Bus 31 Elementary Shorthand

Bus 50 Introduction to Data Processing

Bus 65 Retail Sales Checking

Bus 79 (Also Jrn 8) Public Relations **Techniques**

Drm Art 20AB Fundamentals of Acting **Electricity 1 Basic Electricity**

Engr 18A Plane Surveying

Engr 21 Technical Drawing

Engr 72A Surveying for Engineering Technology

Eng A Basic English Composition Eng B Basic English Composition

Eng 7 Technical and Report Writing

Eng 8 Advanced Composition **Eng 9AB Creative Writing**

Eng 12 Rapid Reading and Study Skills

Eng 42 Advanced English as a Second

Eng 43C Advanced Oral English for Bilinguals Eng 47 Vocabulary Building for Bilinguals

Eng 49 Reading Development for Bilinguals

Eng 50A Reading Development Eng 50B Reading Development Eng 52AB Vocabulary Building

*Eng 55AB Spelling

Eng 56A Writing Fundamentals Eng 56B Writing Fundamentals

* Eng 57 Library Resources HE 2 First Aid HR 8 (Also Psych 8) Personal and Career Development

*LE 23 (Also PE 44) Defensive Tactics

LE 29 Preliminary Investigation and Reporting

LE 39 Arrest and Firearms

LT 51 Introduction to Library Services

Math A Intermediate Algebra

Math C Plane Trigonometry

Math 2 Advanced Algebra and Trigonometry

Math 3A Analytic Geometry and Calculus

Math 10 Math for Elementary School Teachers Math 12 (Also Bus 26/Psych 12) Elementary

Math 17 (Also Bus 9) Math for Business Analysis

Math 18 Introduction to Mathematics

* Math 52 The Metric System

MPP 10 (Also Eng 10) Introduction to Motion Picture Production

Mus 7 Introduction to Music Foundations

Mus 10A Beginning Group Piano I

* Mus 10B Beginning Group Piano II

Mus 11A Intermediate Group Piano I

* Mus 11B Intermediate Group Piano II

Mus 12 Beginning Class Guitar

* Mus 13 Intermediate Class Guitar

Mus 15A Beginning Class Voice

Mus 15B Beginning Class Voice

Mus 21AD Brass, Woodwind and Percussion Methods

* Mus 32AD Applied Music

Phil 10 Logic

Ph 5 (Also Jrn 5) Introduction to Photography

PL 10 Beginning Communication with the Deaf

PL 20 Literary Braille

PL 33 Introduction to Audiology

PL 40 Introduction to Physical Therapy

PL 41 Introduction to Occupational Therapy Psych 12 (Also Math 12) Elementary Statistics

Soc Sci 69 (Also Bus 11) Personal Finance

Sp 1 Oral Communication

Sp 11 Oral Interpretation—Readers Theatre

Sp 30 Voice and Articulation Development

TA 1 Introduction to Instructional Associate

Weld 30 Arc Welding

Weld 32 Oxy-Acetylene Welding

Weld 34 Inert Gas Shielded Arc Welding

Weld 36A Advanced Welding

WE Occ 80 Personal Efficiency

WE Occ 81 Motivation

WE Occ 82 Labor and the Economy

WE Occ 83 Laws Affecting Employees

*1 Unit Courses **2 Unit Courses

CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES

A student may petition to have a maximum of six units of credit counted toward graduation for correspondence or extension courses which meet the following standards:

- (1) Courses must have been taken from a recognized accredited college or university having a correspondence or extension division.
- (2) Courses must be designated as recommended for lower division credit by the college or university.

It is the responsibility of the student to submit evidence establishing the above standards.

TRANSFER REQUIREMENT

Two principal kinds of requirements must be met in to attain full junior standing at a state college, the University of California, or other institutions maintaining equiv standards to which the student expects to transfer. Thes as follows:

1. The completion of the specified requirement junior standing in the proposed senior college o versity, and,

The completion of the lower-division prerequisite upper-division majors and minors.

These vary according to the requirements of the instit of higher education in which the student expects to enr STUDENT EXPECTING TO TRANSFER TO SUCH INSTITUTION SHOULD CONSULT THE CATALOG THE INSTITUTION REGARDING SPECIFIC REQL MENTS and plan his/her Imperial Valley College wor that these requirements will be met. Additional inform. is available in the Counseling Center.

A student planning to transfer to one of the campus the California State College State University system ca his/her request, have the general education requirem certified by Imperial Valley College. In order to meet certification, a student must complete forty (40) units of lected general education in one of five areas: natural scient social science, humanities, basic subjects, and general cation. With the certification of general education comp by Imperial Valley College, a student can transfer to a fornia State University assured that no further general cation will be required once he/she has officially transfe For further information regarding the necessary course quired for general education certification, contact Counseling Center.

Transfer Credit

In state colleges, and at the University of Californ maximum of 70 semester units earned in a community lege may be applied toward the Bachelor's degree, with exception that no upper division credit may be allowed courses taken in a community college and no credit ma allowed for professional courses in education taken community college. Many other colleges and univers also allow credit for 70 units of lower division work of pleted at a community college.

OCCUPATIONAL CURRICULA

Imperial Valley College has developed career progr which reflect employment opportunities of our county region. Advisory committees work closely with the collection assure each student the best in education and real emp ment opportunities upon graduation.

In developing a major program, each student should on completing graduation requirements for the Associa Arts or Associate in Science Degree. It is recommended students should plan a broad educational background cluding general education courses.

It is most important that students consult with a counselor during their first semester in preparing programs to determine the appropriate sequence of courses. Further, it should be noted that the final responsibility for the selection of proper courses rests with the student.

CERTIFICATES

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Occupational Certificates are awarded to convey evidence that well-defined levels of proficiency have been attained in designated occupational fields. Certificate programs are available in some of the occupational areas for which the college offers the Associate Degree. To qualify for an Occupational Certificate, a student must:

1. Complete all courses listed for a particular certificate.

Achieve at least a C grade average (2.0 GPA) for each course required for the certificate and all such courses taken at Imperial Valley College.

 File a certificate petition with the Registrar not later than the end of the sixth week of the fall semseter, the fourth week of the spring semester and the first week of the summer session.

Certificates are offered in the following areas:

Field Archaeology Automotive Body Repair and Painting Automotive Technology Banking

Secretary Certificate—Bank Service General Certificate—Bank Service Administrative Certificate in Bank Operations Credit Administration Certificate in Banking

Office Technician: (Receptionist, File Clerk Small Business Records)

Clerk Typist Secretary/Stenographer Bookkeeper Technician

Carpentry
Cosmetology
Early Childhood Education
Electronics

Basic Intermediate Emergency Medical Technician Fire Science Gerontology

Governmental Management Graphic Arts—Multi Media Printing

Health Aide

Community Health Aide
Developmental Disability/Mental
Retardation Aide
Hospital Nursing Assistant
Mental Health Aide

Heavy Machinery Human Relations

> Community Mental Health Worker Counseling, School and Social Services Personnel, Employment Counseling and Supervision

Law Enforcement
Legal Assistant
Basic Library Technician
Marketing-Sales Technology
Real Estate
Recreation

Rehabilitation Technician for the Physically Limited Teacher Aide Vocational Nursing Water Treatment Welding Occupational Work Experience

COURSES OF INSTRUCTION

In the following list of courses, the credit value of each course in semester units is indicated by a number in parentheses after the course number.

To make it possible for a greater number of courses to be offered to the students of Imperial Valley, many courses in specialized fields are offered on alternate years only. The student should take this into consideration when making long-range program plans.

Course numbers followed by an AB sequence indicate that the course may be taken more than once, covering the same materials, to gain proficiency in the subject matter. Course numbers which have an A and B sequence with different course descriptions indicate that new or advanced materials are to be covered.

The prerequisites for any course may be waived by the instructor and the Dean of Instruction.

Unless specifically exempted by statute, every cocourse section or class, the average daily attendanwhich is to be reported for state aid, wherever offered maintained by Imperial Community College District, shfully open to enrollment and participation by any persor has been admitted to the college and who meets prerequisites as may be established pursuant to Chap-Division 2, Part VI, Title 5 of the California Administr Code commencing with Section 51820 (Board of Tru-Resolution No. 5682).

SUMMER SESSION (When Offered)

Summer Session calendar and admission requiremmay be found in the Summer Session Bulletin or Schedu Classes which is published during the Spring Semeste

AGRICULTURE

Many of the courses in the field of agriculture are offered on alternate years only. Students should keep this in mind as they plan their long-range programs of study with the assistance of their counselors.

AG 5 (3) MAN AND HIS ENVIRONMENT 3 Hrs. Lec.

(Same as Env Sci 5)

AG 14 (3) ENTOMOLOGY 2 Hrs. Lec. 2 Hrs. Lab.

A basic study of insects with emphasis on classification, anatomy and physiology, and ecology. An insect collection is required.

AG 20 (3) ANIMAL SCIENCE 3 Hrs. Lec.

A survey of the sources of the world's supply of animal products. The distribution of and factors influencing domestic animals in the United States. The origin, characteristics, and adaptation of the important breeds and the influence of environment upon their development. Selection, feeding and management of sheep, swine, and cattle on California farms.

AG 21 (3) FEEDS AND FEEDING 3 Hrs. Lec.

The basic principles of animal nutrition as they are applied to livestock feeding; the composition and use of feedstuffs in

their relation to feeding of farm animals; ration balancing. Identification and classification of feeds, methods of preparing feeds; relative value for each class of livestock. Digestion and utilization of feeds; feeding standards; economy in feeding; vitamins and minerals and feed sources.

AG 22 (3) LIVESTOCK SELECTION 2 Hrs. Lec. 2 Hrs. Lab.

Selection of beef cattle, sheep, swine and horses according to breed, type and use. The animal form in relation to its various functions. Studies of recognized type standards in livestock with a critical evaluation of the criteria used in establishing these standards. Correlation of the type of the live animal with the quality of the carcass.

AG 23 (3) ANIMAL DISEASES 3 Hrs. Lec.

The symptoms, diagnosis and treatment of animal diseases.

AG 24 (3) HORSE HUSBANDRY 3 Hrs. Lec.

Status of the horse industry; types and breeds; selection, care and management and economics of the light horse; their place and use in California and the United States.

AG 25 (3) AGRICULTURAL BUSINESS MANAGEMENT 3 Hrs. Lec.

Changes occurring in agriculture, careers in commercial agricultural business and public agricultural service agencies, development and grow farm-related industries, kinds of ag tural businesses, operational chara istics of commercial agricultural in tries.

AG 26 (3) AGRICULTURAL BUSINESS ORGANIZATION AND MANAGEM 3 Hrs. Lec.

Study of farm technological adv marketing, consumer demand and such factors as determinants of gr types and forms of agricultural bus organization. Farm and farm re businesses considered from stand of primary functions, services problems including investments, gage and working capital requirer credit and collections, business banks, failures and reorganization phasis on California farm-related in tries.

AG 27 (3) AGRICULTURAL SALES AND SER MANAGEMENT

3 Hrs. Lec.

Supervision of people who agricultural products and ser Selecting, training, directing evaluating personnel. Method payment, use of advertising, promincentives and service.

AG 28 (5)
HEAVY EQUIPMENT OPERATION
MAINTENANCE
3 Hrs. Lec. 6 Hrs. Lab.
(Same as H.M. 35)

AG 30 (3) AGRICULTURAL MECHANICS 2 Hrs. Lec. 2 Hrs. Lab.

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Selection and evaluation of production equipment. Study of specifications, plans and construction of general agricultural equipment. Pipe work and electrical installations. Selection and grading of lumber and wood preservatives; cold and hot metal work; theory and testing of electrical motors; utilization and construction of agricultural facilities.

AG 32 (3) IRRIGATION AND DRAINAGE 2 Hrs. Lec. 2 Hrs. Lab.

Fundamental principles and practices of irrigation. Soil-moisture relationships, water measurement, methods of irrigation, crop requirements, farm irrigation structures. Pumps and pumping and problems of the irrigation farmer. Land preparation and irrigation methods, problems of irrigation, crop requirements, farm irrigation structures including investigation of drainage problems. Types of drainage systems and layout of farm drains, and drainage requirements for land reclamation and irrigated agriculture.

AG 33A (5) FARM POWER 3 Hrs. Lec. 6 Hrs. Lab.

For the student with little or no automotive background. Design, construction and mechanical function of automobile engines including lubricating, cooling, fuel and electrical systems; clutches; and an understanding of the basic sciences relevant to such topics as internal combustion and energy conversion. A materials fee will be charged. (Same as Auto Tech 51)

AG 33B (5) FARM POWER 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: AG 33A or 2 years of high school auto mechanics. Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. Review the study and service procedure of the diesel fuel systems and governors. A materials fee will be charged. (Same as Auto Tech 55)

AG 35 (4) FLUID POWER 3 Hrs. Lec. 3 Hrs. Lab.

A study of the principles and laws governing fluids. The design and function of hydraulic and pneumatic components, seals, fluid types, circuits and symbols. Latest developments in the control and transfer of energy and its relationship to agricultural technology. A materials fee will be charged. (Same as Auto Tech 57)

AG 36 (3) AGRICULTURAL CONSTRUCTION 2 Hrs. Lec. 2 Hrs. Lab.

A study of the materials and processes most suited to farm situations. Practical concrete design, farm layout and fabrication.

AG 37 (3) SMALL GASOLINE ENGINES 2 Hrs. Lec. 2 Hrs. Lab.

The history, design, construction and mechanical function of the small gasoline engine, including tune-up and major repair of the electrical and mechanical systems. A materials fee will be charged. (Same as Auto Tech 59)

AG 38 (3) ELECTRICITY ON THE FARM 2 Hrs. Lec. 2 Hrs. Lab.

Fundamentals of electric wiring; circuit layout and problems; motor and branch circuit protection; safe use of electricity; wiring the farmstead; and motor maintenance.

AG 40 (3) SOILS 3 Hrs. Lec.

Physical, chemical and biological properties of soils as related to agriculture. Principles of soil-plant inter-relations; development of the soil as a natural body, soil moisture, effect of management practices on soil properties; composition and use of fertilizers.

AG 41 (3) FERTILIZERS 3 Hrs. Lec.

The nature of fertilizers and soil amendments, their properties, methods of application, and reaction upon soils and plants. Composition, value and use of fertilizer materials and soil correctives. Methods employed in the manufacture, distribution, and application of fertilizers

AG 42 (4)
PLANT SCIENCE AND FORAGE
CROPS

3 Hrs. Lec. 3 Hrs. Lab.

Principles and practices of crop improvement, propagation, production, processing, storage, and marketing. Production, harvest and utilization of principal California forage crops. Field laboratory work required.

AG 43 (4)
FIELD AND CEREAL CROPS
3 Hrs. Lec. 3 Hrs. Lab.

Principles and practices of field and cereal crops production and soil management, including study of distribution, adaptation and utilization of the major field and cereal crops. Field laboratory work required.

AG 44A (2) VEGETABLE GARDENING— COOL WEATHER 6 Hrs. Lab.

Organic and inorganic production in vegetable gardening. Cultural practices, harvesting, grading and processing, marketing, disease and pest control of California vegetable crops.

AG 44B (2) VEGETABLE GARDENING— WARM WEATHER

6 Hrs. Lab.

Organic and inorganic production in vegetable gardening. Cultural practices, harvesting, grading and processing, marketing, disease and pest control of California vegetable crops.

AG 45 (3) VEGETABLE PRODUCTION 3 Hrs. Lec.

Principles involved in seasonal truck crop production, including the scope, value, harvesting, packaging and marketing of the major truck crops grown in California.

AG 46 (3)
ORNAMENTAL PLANT
IDENTIFICATION AND MATERIALS
3 Hrs. Lec.

Identification, growth habits, culture and ornamental use of house plants, vines, groundcovers, annuals, perennials, small shrubs adapted to the climate of the southern valleys of California.

AG 47 (3) NURSERY PRACTICES 2 Hrs. Lec. 3 Hrs. Lab.

A general course in ornamental horticulture with emphasis on nursery operation. Includes nursery structures and layout, seeding, transplanting, potting, balling, canning, fertilizing, pest control, plant diseases, and abnormalities. Propagating and planting mediums, their preparation and use. The use and maintenance of the common tools and equipment.

AG 48 (3) TREES, SHRUBS AND VINES 3 Hrs. Lec.

Selection, planting, training, pruning and cultural practices of trees, shrubs, and vines in California - including citrus and grapes.

AG 49 (3) WEEDS AND WEED CONTROL 3 Hrs. Lec.

Common and noxious weeds of California, their identification, life history, and control. Chemicals and equipment used for weed control on cultivated land, in irrigation ditches, on the range, and on wasteland. Poisonous weeds, their effects and prevention.

AG 50 (3) SHOP MATHEMATICS 3 Hrs. Lec. 2 Hrs. Lab.

(Same as Auto Tech 50, Math 50, P.L. 50, Weld 50)

AG 51A (1) APPLIED CROP MANAGEMENT 1 Hr. Lec.

The study and evaluation of cropping, and harvesting methods and management practices during fall months.

AG 51B (1) APPLIED CROP MANAGEMENT

The study of field management practices during spring months.

AG 51C (1) APPLIED CROP MANAGEMENT 1 Hr. Lec.

The study and evaluation of cropping methods and crop rotation practices.

AG 51D (1) APPLIED CROP MANAGEMENT 1 Hr. Lec.

The study and evaluation of cropping methods for the Imperial Valley.

AG 64AB (1) HORSEMANSHIP - EQUITATION 1 Hr. Lec. 1 Hr. Lab.

The fundamentals of horsemanship and equitation, English and Western, the anatomy of the horse and safety are emphasized. (Students may provide their own horse and trail it to instruction areas if carried on college accident policy or show evidence of coverage under family policy. A lab fee will be charged for those students who cannot provide their own horse.) (Same as P.E. 64AB)

AG 65 (3) CONTROL OF INSECTS AND **OTHER PESTS**

3 Hrs. Lec.

Identification and methods of control of principle insect, rodent, disease, and other pests of crops. Use of pesticide application equipment. Health hazards in use of pesticides.

AG 66 (1) INTERMEDIATE HORSEMANSHIP -**EQUITATION**

1 Hr. Lec. 1 Hr. Lab.

Prerequisites: AG 64AB or consent of instructor. Intermediate horsemanship under saddle. Grooming, saddling, bridling, mounting, seat and hands. Study of types of horse gear and equipment. Safety precautions are emphasized. This course fulfills one semester of the physical education requirement. (Students may provide their own horse and trail it to instruction areas provided that the student has evidence of college or personal insurance coverage. A lab fee will be charged for those students who cannot provide their own horse.) (Same as P.E. 66)

AG 69ABCD (2-2-2-2) **COLLEGE RODEO** 10 Hrs. Lab.

Prerequisites: Students must provide all their own equipment, supplies, insurance and membership or entrance fees. Course designed to give students the chance to participate in the sport of rodeo on the college level. (Same as P.E. 39ABCD)

AG 75 (3) INTRODUCTION TO INDUSTRIAL/ **AUTOMOTIVE SKILLS** 3 Hrs. Lec.

(Same as Auto Tech 75, Weld 75)

ANATOMY

ANAT 8 (4) HUMAN ANATOMY

2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: High school biology with a grade of C or better or Zool 1A or Bio 3. Systems of the human body and their interrelationships.

ANAT 10 (5) HUMAN ANATOMY AND PHYSIOLOGY

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: One year of high school chemistry and biology or one semester each at the college level. A study of the structure and function of the human organism. Emphasis is on the circulatory, respiratory, excretory, nervous, reproductive, and digestive systems.

ANTHROPOLOGY

ANTHRO 1 (3) PHYSICAL ANTHROPOLOGY 3 Hrs. Lec.

Prerequisite: Eleventh grade reading level ability is recommended for success in this course. An introduction to the study of evolution and racial variation in man. Emphasizes the processes of evolution, the relationship of man and the animals, fossil man, and the origin and meaning of race.

ANTHRO 2 (3) **CULTURAL ANTHROPOLOGY** 3 Hrs. Lec.

Prerequisite: Eleventh grade reading level ability is recommended for success in this course. An introduction to the nature of culture, especially as seen in primitive society. Includes such topics as cultural history, the process of culture, technology, social organization, language, religion, and personality. May be taken before Anthro 1.

ANTHRO 3A (3) INTRODUCTION TO ARCHAEOLOGICAL SITE SURVEYING

2 Hrs. Lec. 5.33 Hrs. Lab.

Introduction to archaeological s veying; historical development chaeology; major contributors century; archaeological trends; m of site surveying; types of sites; I connaisance; site reports and re preparing field material for lab care and analysis; trails, artifac features; equipment, use and care field.

ANTHRO 3B (3) INTRODUCTION TO ARCHAEOLOGICAL EXCAVATI 2 Hrs. Lec. 5.33 Hrs. Lab.

Introduction to archaeological e tions; mapping; laying out site transit, rod and alidade; archaeo excavation; selecting sites; testir trenching; stratigraphy; keeping ords; interpreting data; preparing atory materials; care of materials for bon and amino acid dating; polle soil tests.

ANTHRO 3C (3) ADVANCED ARCHAEOLOGICAL SURVEY

2 Hrs. Lec. 5 Hrs. Lab.

Prerequisite: Anthro 3A and cons the instructor. Students to conduct pendent surveys, research record vise tables and maps, lead sma crews on surveys and write technireadable reports. Field surveys wi various environmental areas in In and San Diego counties. Student plan for 1-3 additional hours by ar ment.

ANTHRO 3D (3) ADVANCED ARCHAEOLOGICA **EXCAVATIONS**

2 Hrs. Lec. 5 Hrs. Lab.

Prerequisite: Anthro 3B and cons the instructor. Students will de field excavation project, organize field crew with which to carry it ou duct record and literature search cro-map the area, process materia data in the laboratory, and pretechnical, but readable report of findings. Laboratory studies will in curation, photography and C14 cessing. Students must plan for 1 ditional hours by arrangement.

ANTHRO 4 (3) **CALIFORNIA INDIANS** 3 Hrs. Lec.

A study of California Indians a relationships of these tribal peotheir environments; linguistic fa life styles of specific Indian tribal ties; Indian art, music, stories, rel institutions, structures, artifacts, Indian history.

ANTHRO 5 (3) ARCHAEOLOGY: THEORY. PREHISTORY AND LABORATORY 3 Hrs. Lec.

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Prerequisites: Anthro 1, 2, 3A or 3B preferred. A course to introduce students interested in archaeology to the theory, development and application of this branch of science. This course will also cover, in outline form, the prehistory of the world as well as introduce the student to laboratory and recording work. Field work will not be required.

ANTHRO 6 (3) INDIANS OF NORTH AMERICA 3 Hrs. Lec.

Early migrations to the New World; demography and ecology of the Amerindian cultures in Alaska, Canada, United States, Mexico and Central America, in Pre-Columbian times. The modern Indian movement today.

ANTHRO 7 (3) CLASSIC CIVILIZATIONS OF PRE-HISTORIC MESO-AMERICA 3 Hrs. Lec.

A study of the classic Aztecs, Mayas and Incas from their origins to their highly developed states and empires, and their eventual destruction. The controversial theories that Hyerdahl and von Daniken pose will be analyzed in factual light.

ANTHRO 8 (3) **INDIANS OF THE SOUTHWEST** 3 Hrs. Lec.

A study of the natural and human ecology of the Southwest as applied to aboriginal life; Early Man in the Southwest, especially the Cochise Culture; Meso-American influences; foundations and development of the Anasazi, Sinagua, Hohoka and Mogollon cultures. Intercultural relations, trade, ceramics, pueblo life, religion, art and agriculture. Cultural extensions into California. Rise of modern societies, as the Zuni, Hopi, Navajo and Apache. Contemporary life.

ANTHRO 9 (3) MEXICAN AMERICAN CULTURAL TRADITIONS

3 Hrs. Lec.

This course traces the ethnic background and development of the Mexican from the Spanish Conquest to independence (1519-1821), with an emphasis on the origins and rise of ethnic values and attitudes. The interrelationships between Mexicans and Americans to the present are examined.

ANTHRO 10 (1) ETHNOBOTANY OF IMPERIAL COUNTY

1 Hr. Lec. 1 Hr. Lab.

A survey of flora indigenous to Imperial County, and lectures on aboriginal uses of plants for medicinal, dietary, spiritual,

and craft purposes. Two field trips, at the end of the third and sixth weeks, to examine such of the plants as are flowering.

ANTHRO 11 (3) INDIANS OF SOUTHERN CALIFORNIA 3 Hrs. Lec.

This course focuses on the Shoshone and Yuman groups of Southern California, and the diverse environments in which they lived. As background, the study takes up the Paleoindians who came to inhabit this area when it was high desert climate in the late Pleistocene, and traces their gradual demise as the country turned arid. It traces the adaptation to the desert of the later Indians over 2,500 years to the historic period.

ANTHRO 12 (2) ETHNOGRAPHY OF THE YUMAN INDIANS

2 Hrs. Lec. 1 Hr. Lab.

Following a geographical and archaeological background of the Yuman territory, this course goes into the ethnography of the Yuman group of the Hokan speakers, covering general cultural subjects as the material basis, socioeconomic organization, political organization, religion, and symbolic expressions in art and folklore. One day a month will be spent in the field visiting Yuman and Pre-Yuman sites, features, and museums.

ART

ART 3A (3) HISTORY AND APPRECIATION OF ART

3 Hrs. Lec.

A survey of the developments in art in painting, sculpture, architecture, and the minor arts from the birth of art to the Renaissance.

ART 3B (3) HISTORY AND APPRECIATION OF ART

A continuation of Art 3A extending from the Renaissance to contemporary times. May be taken before or concurrently with Art 3A.

ART 4 (3) HISTORY AND APPRECIATION OF **MODERN ART**

3 Hrs. Lec.

Art 4 is a broad analytical survey of painting, sculpture and architecture from 1900 up to the present. Emphasis is placed upon the development of styles of painting and their relationship to each other.

ART 18A (3) WATERCOLOR PAINTING 2 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Art 20A. The study of watercolor painting with emphasis upon color, composition and pictorial expression. Exploration of various techniques employing the medium of watercolor.

ART 18B (3) **WATERCOLOR PAINTING**

2 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Art 18A. Continuation of watercolor painting. Stress is on achieving confidence and fluency in the medium. Students are encouraged to expand the range of the experience acquired to include other water-based media.

ART 20A (3) DRAWING

2 Hrs. Lec. 4 Hrs. Lab.

A basic course in drawing involving analysis of line, form, tone, texture and color as essential media of expression.

ART 20B (3) DRAWING

2 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Art 20A. A continuation of

ART 21A (3) **PAINTING**

2 Hrs. Lec. 4 Hrs. Lab.

Prerequisites: Art 20A and 20B. A continuation of the development of composition and the various techniques employed in drawing and painting. Includes figure drawing, landscape, and still-life. Painting covers styles of painting from the Neo-classic to the present day.

ART 21B (3) PAINTING

2 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Art 21A. A continuation of

ART 22A (3) DESIGN

2 Hrs. Lec. 3 Hrs. Lab.

Fundamentals of design and composition; theory of color. Includes organization and utilization of basic elements through design problems.

ART 22B (3) DESIGN

2 Hrs. Lec. 3 Hrs. Lab.

Intermediate studies of elements and principles of art with emphasis on threedimensional design theory.

ART 23A (3) CERAMICS

1 Hr. Lec. 5 Hrs. Lab.

An introduction to ceramics; basic methods of forming, decorating, glazing and firing.

ART 23B (3) CERAMICS

1 Hr. Lec. 5 Hrs. Lab.

Prerequisite: Art 23A. A continuation of Art 23A with emphasis on the potter's wheel.

ART 23C (3) CERAMICS

1 Hr. Lec. 5 Hrs. Lab.

Prerequisite: Art 23B with a grade of C or better. A continuation of Art 23B with special emphasis on glaze formulating and decorating techniques.

ART 24AB (3-3) CERAMIC SCULPTURE 6 Hrs. Lab.

A course in basic ceramic sculpture techniques with emphasis on the human form.

ART 25A (3) LIFE DRAWING 6 Hrs. Lab.

Prerequisites: Art 20A and 20B with a grade of C or better. Many types of drawing and painting techniques are used to further the student's skill, and development of visualization by drawing from the human figure.

ART 25B (3) LIFE DRAWING 6 Hrs. Lab.

Prerequisite: Art 25A. A continuation of Art 25A. Art 25B includes exploration of painting techniques using varied media.

ART 26 (3) DESIGN IN CRAFTS 6 Hrs. Lab.

An introduction to the study of several traditional crafts with an emphasis on creative design and individual exploration. Experiences in metal jewelry, batik and tie-dye, printmaking, fibers, sand casting and enameling.

ART 27 (3) CREATIVE HANDWEAVING 6 Hrs. Lab.

An exploratory course structured as an introduction to the craft of non-loom weaving. Its emphasis is on the exploration of texture and color using contemporary and traditional techniques. Experiences in the design and structure of wall hangings, tapestries, rugs, body ornaments and accessories will acquaint the student with basic weaving techniques, fibers and ancient and modern hand looms. Additional study in spinning and dyeing yarns.

ART 28 (3) TECHNICAL CERAMICS 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Art 23C or permission of instructor. A study of the raw materials used in compounding clay bodies and glazes. Specific problems of glaze calculations and techniques of glaze application.

ART 29A (3) JEWELRY

1 Hr. Lec. 5 Hrs. Lab.

An introduction to the study of jewelry with emphasis on the practical and tech-

nical skills of jewelry fabrication. Experience in traditional techniques and exploration in creative design and contemporary techniques.

ART 29B (3) JEWELRY

1 Hr. Lec. 5 Hrs. Lab.

Prerequisites: Art 29A or permission of the instructor. Second-semester jewelry course with emphasis on the practical and technical skills of casting, forging and advanced metal smithing techniques. Exploration in creative design and contemporary techniques with experience in traditional methods.

ART 30A (2) INTRODUCTION TO ART 1½ Hrs. Lec. 1½ Hrs. Lab.

An exploratory course intended for nonart majors; provides a basis for an understanding of the fundamental art principles. Offers experience in creative expression.

ART 30B (2) INTRODUCTION TO ART 1½ Hrs. Lec. 1½ Hrs. Lab.

Prerequisite: Art 30A. A continuation of Art 30A which is an exploratory course intended for non-art majors; provides a basis for an understanding of the fundamental art principles. Offers experience in creative expression.

ART 31 (3) CRAFTS

2 Hrs. Lec. 3 Hrs. Lab.

A basic craft course exploring the use of art materials, media, techniques and methods. Recommended for students planning to become elementary teachers or recreation directors.

ART 32 (3) INTRODUCTION TO STAINED GLASS 1 Hr. Lec. 5 Hrs. Lab.

Introduction to the techniques of designing and fabricating stained glass windows and lampshades. Emphasis on types of glass, tools, glass cutting procedures, lead caming, copper foil, soldering and finishing techniques. Includes the history of stained glass, safety procedures and equipment, and tool maintenance.

ART 33 (1) GALLERY DISPLAY 2 Hrs. Lab.

Theories, techniques and practices of art gallery exhibition.

ART 40 (2) EXPLORATION OF ACRYLIC PAINTING TECHNIQUES

1 Hr. Lec. 2 Hrs. Lab.

An exploratory course which provides opportunities to work with the various polymer emulsion paints. Basic painting assignments to develop individual application of techniques. Initial exercises in

color usage and structure of the ing. Suggestions and evaluation dent work will take place on an it ual basis.

ART 50 (2) INTRODUCTION TO LAPIDARY 1 Hr. Lec. 2 Hrs. Lab.

Introduction to techniques of c and polishing rocks and gems Emphasis on recognition and ider tion, field collection, mounting, c and valuation of gemstones. In equipment safety and mainter desert safety and survival, off vehicle regulations and lapidary r job and career opportunities.

ART 51 (2) ADVANCED LAPIDARY ARTS 2 Hrs. Lec. 1 Hr. Lab.

Practical application of advanced niques of cutting and polishing and gemstones. Emphasis on idention and testing procedures, specigem cutting, and production of cumountings. Includes update on and federal collecting restriction road vehicle regulations and colletechniques. Also covers method marketing cut gemstones and cujewelry.

ASTRONOMY

ASTRON 21 (3) ELEMENTARY ASTRONOMY 3 Hrs. Lec.

Prerequisite: Completion of the M matics 51 requirement. The c covers the solar system, the Milky Way galaxy, cosmology, an identification of stars and constellar in the planetarium.

ASTRON 22 (3) INTERMEDIATE ASTRONOMY 3 Hrs. Lec.

Prerequisite: Astronomy 21, Ma Math Y, or the consent of the instrict A second semester course in astrowith emphasis on the stars, their provides, and evolution, galacosmology, relativity.

AUTOMOTIVE BODY AND PAI

AUTO BODY 70 (5) AUTO BODY REPAIRING AND PAINTING

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Weld 30 and Weld 30 permission of the instructor. The of all phases of body repair and pair Covers the use of modern tools equipment and procedures for har typical body-paint jobs. A materia will be charged.

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2, or tudy ting. and fling s fee AUTO BODY 71 (5) ADVANCED AUTO BODY REPAIRING AND PAINTING

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Auto Body 70 or permission of instructor. Covers all phases of body repairing and repainting. Use of modern tools and equipment, step-bystep procedures for handling typical jobs. A materials fee will be charged.

AUTO BODY 72 (5) AUTO AND LIGHT TRUCK MAJOR COLLISION REPAIRING

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Auto Body 71 and/or concurrently Weld 30, Weld 32 or permission of the instructor. Covers all phases of heavy collision repair including extensive frame and undercarriage damage, using modern equipment with step-by-step procedures. A materials fee will be charged.

AUTOMOTIVE TECHNOLOGY

Some courses in the field of Automotive Technology are offered on alternate years only. Students should keep this in mind as they plan their long-range programs of study with the assistance of their counselors.

AUTO TECH 50 (3) SHOP MATHEMATICS 3 Hrs. Lec. 2 Hrs. Lab.

(Same as Ag 50, Math 50, P.L. 50 and Weld 50)

AUTO TECH 51 (5) ENGINE TECHNOLOGY 3 Hrs. Lec. 6 Hrs. Lab.

For the student with little or no internal combustion engine background. Design, construction and mechanical function of internal combustion engines including lubricating, cooling, fuel and electrical systems; and an understanding of the basic sciences relevant to such topics as internal combustion and energy conversion. A materials fee will be charged. (Same as Ag 33A)

AUTO TECH 52 (3)
MANUAL TRANSMISSIONS &
POWER TRAINS

2 Hrs. Lec. 3 Hrs. Lab.

Design, construction and mechanical function of clutches, manual transmissions, overdrives and power transmitting mechanisms. A materials fee will be charged.

AUTO TECH 53 (3) BRAKES AND SUSPENSION 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Auto Tech 51 or two years of high school auto mechanics. Study of manual and power braking systems, wheel alignment, spring suspension,

tires, tire trueing, wheel balancing, and wheel bearings. Diagnosis and services procedures on repair jobs. A materials fee will be charged.

AUTO TECH 54 (3) CARBURETORS, FUEL AND EXHAUST SYSTEMS 2 Hrs. Lec. 3 Hrs. Lab.

Advanced study of automotive fuel systems (carburetors, fuel pumps, intake manifolds, exhaust system and emission controls). Basic diagnosis and service procedures on systems. A materials fee will be charged.

AUTO TECH 55 (5) GASOLINE AND DIESEL ENGINES 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Auto Tech 51 or two years of high school auto mechanics. Review and advanced study of the internal combustion engine and service procedures in the use of automotive machine shop tools and machines for rebuilding the engine. Review the study and service procedure of the diesel fuel systems and governors. A materials fee will be charged. (Same as Ag 33B)

AUTO TECH 56 (3) DIAGNOSTICS

2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Auto Tech 54. Trouble shooting the various components of the automobile using the oscilloscope and dynometer and other precision instruments. To include the study and servicing of various automotive smog devices. A materials fee will be charged.

AUTO TECH 57 (4) FLUID POWER

3 Hrs. Lec. 3 Hrs. Lab.

A study of the principles and laws governing fluids. The design and function of hydraulic and pneumatic components, seals, fluid types, circuits and symbols. Latest developments in the control and transfer of energy and its relationship to automotive technology. A materials fee will be charged. (Same as Ag 35)

AUTO TECH 58 (3) AUTOMOTIVE AIR-CONDITIONING 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Auto Tech 54 or two years high school auto mechanics. The course is designed to impart knowledge and information needed by the student to enter and make progress in employment on a productive basis in the automotive air-conditioning service industry. A materials fee will be charged.

AUTO TECH 59 (3) SMALL GASOLINE ENGINES 2 Hrs. Lec. 2 Hrs. Lab.

The history, design, construction and mechanical function of the small gaso-

line engine, including tune-up and major repair of the electrical and mechanical systems. A materials fee will be charged. (Same as Ag 37)

AUTO TECH 60 (3)
ELECTRICAL, STARTING,
CHARGING, IGNITION AND
RELATED ELECTRICAL SYSTEMS
2 Hrs. Lec. 3 Hrs. Lab.

Advanced study of automotive electrical systems. Basic diagnosis and service procedures on the various systems. A materials fee will be charged.

AUTO TECH 61 (3) AUTOMATIC TRANSMISSIONS 2 Hrs. Lec. 3 Hrs. Lab.

Design, construction, mechanical and hydraulic function and repairs of the automatic transmission. A materials fee will be charged.

AUTO TECH 75 (3)
INTRODUCTION TO INDUSTRIAL/
AUTOMOTIVE SKILLS

3 Hrs. Lec.

This is a comprehensive course in tool usage, nomenclature and terminology of tools and equipment for the beginning student in the technologies. The course is for the student who has not developed a background in industrial technology, as well as for the bilingual student who wants to improve his technical vocabulary. (Same as Ag 75, Weld 75)

AUTO TECH 80 (2)
EMISSION CONTROLS AND
HEADLIGHT DIAGNOSIS AND
ADJUSTMENTS

11/2 Hrs. Lec. 11/2 Hrs. Lab.

Prerequisites: Auto Tech 51, Auto Tech 54, Auto Tech 56 or experience as a mechanic in the automotive field. Review and advance study of tune-up, emission controls and headlight problems using correct procedures as set forth by the State of California. This course will also be using required specifications and equipment.

AUTO TECH 81 (2) BRAKE LICENSING AND AIR-CONDITIONING

11/2 Hrs. Lec. 11/2 Hrs. Lab.

Prerequisites: Auto Tech 53 or permission of the instructor. This course is designed for those students who wish to pass the brake licensing state test by learning state laws, brake adjusting and repair procedures and trade servicing of automotive air-conditioning.

AUTO TECH 82 (3) AUTOMOTIVE SURVIVAL 3 Hrs. Lec. 1 Hr. Lab.

For the student with little or no automotive background. This course will teach how to do maintenance and simple automotive repairs on his or her own vehicle.

AVIATION

AVIA 1 (3) INTRODUCTION TO AVIATION 3 Hrs. Lec.

Serves to meet the written test and ground school requirements to procure a Private Pilot's Certificate and as a refresher for Pilots. The material covers aviation, meteorology, aircraft frame, aircraft engines, and current FAA regulations.

AVIA 2 (3) INSTRUMENT GROUND SCHOOL 3 Hrs. Lec.

Prerequisite: Private Pilot's certificate. This course is designed to prepare private and commercial pilots for the FAA instrument written examination. It also serves as a reference course for all pilots and prepares those who are studying for the FAA commercial written examination.

BIOLOGY

BIO 3 (4) PRINCIPLES OF BIOLOGICAL SCIENCE

3 Hrs. Lec. 3 Hrs. Lab.

Not open to students with credit in Zoology or Botany. A consideration of basic biological phenomena. Designed for those students who intend to take only one semester of general biological science. May be combined with Physical Science 25 for a year course in the basic principles of natural science.

BIO 21 (4) GENERAL MICROBIOLOGY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Any year course in a high school life science or a semester of college biology. Provides students with fundamental concepts of the structure and physiology of non-disease and disease producing microorganisms with particular attention to bacteria. Basic techniques for culturing, staining, counting and identifying microorganisms. Designed to meet the requirement to enter one of the medical fields as well as general education.

BOTANY

BOT 1A (4) GENERAL BOTANY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Any year course in a high school laboratory science. Designed to present a comprehensive view of the

structure and function of stems, roots, leaves, flowers, and seeds of the flowering plants.

BOT 1B (4) GENERAL BOTANY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Bot 1A. Designed to present a comprehensive view of the structure and function of the plant kingdom from the lowest to the highest forms; typical representatives of algae, fungi, mosses, ferns, and flowering plants in proper relation to one another.

BUSINESS

BUS 1A (4) PRINCIPLES OF ACCOUNTING 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Satisfactory score on the mathematics placement test or completion of Math 51 with a C or better grade. Introduction to the theory, practice, and principles of accounting as they relate to service enterprises and mercantile enterprises. Includes the completion of the accounting cycle, sales, purchases, summarizing and reporting, receivables, payables and inventories, deferrals and accruals, depreciation, systems and controls and payroll systems.

BUS 1B (4) PRINCIPLES OF ACCOUNTING 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Satisfactory completion of Bus 1A. Principles involved in partnerships, corporations, departmental accounting, process cost systems, job order costs, budgetary control, income taxes, cash flow, and financial statement analysis.

BUS 2 (3) INTRODUCTION TO BUSINESS 3 Hrs. Lec.

A basic beginning college course that introduces U.S. business and industry. Includes the nature and importance of business, business forms and organization, management, finance, marketing, government and legal regulations, pricing and taxes.

BUS 3 (3) BUSINESS MANAGEMENT 3 Hrs. Lec.

A study of the organizing and merchandising problems of a business; financial problems; business management.

BUS 4 (3) PRINCIPLES OF MARKETING 3 Hrs. Lec.

The organization and operation of systems for the distribution of goods and services; inlcudes a study of retail and wholesale distribution channels,

consumer buying characteristics keting of industrial goods, coop marketing of agricultural produc cing policies and governmental a tions.

BUS 5A (3) BUSINESS LAW 3 Hrs. Lec.

Principles of business law and the plication to actual cases involving ness transactions, law and the retion of disputes, social forces and rights, contracts, agency employment, and commercial pa

BUS 5B (3) BUSINESS LAW

3 Hrs. Lec.

Principles of business law and the plication to actual cases involving ness transactions, personal proand bailments, sales, security de and insurance, partnerships, contions, real property, estates and ruptcy, and government and bus Bus 5B may be taken before Bus

BUS 6 (3) MANAGEMENT CONCEPTS OF SUPERVISION

3 Hrs. Lec.

The role of the supervisor in inc and business; the development of niques in meeting administrative, of izational, labor and human relaproblems; the utilization of machines and materials, and studies in supervisory problems.

BUS 7 (3) HUMAN RELATIONS IN MANAGEMENT

3 Hrs. Lec.

Improving supervision by the ubasic psychology in building employer-employee relations through human relations technidevelopment of leadership quamain human relations problems their causes and solutions.

BUS 8 (3) PERSONNEL MANAGEMENT 3 Hrs. Lec.

A course that introduces pers management in the light of cutheories and practices based upon search and company experied includes the personnel manages system, staffing, employee and management development, group behavior, security and a look integration, security and a look integration.

BUS 9 (3) MATHEMATICS FOR BUSINESS ANALYSIS

3 Hrs. Lec.

(Same as Math 17)

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BUS 10A (3) PRACTICAL BOOKKEEPING 3 Hrs. Lec.

A basic course in elementary basic accounting principles that uses the "practice set approach" to learn how to journalize and post transactions for service-type businesses that keep their books on the cash basis.

BUS 10B (3) PRACTICAL BOOKKEEPING 3 Hrs. Lec.

Prerequisite: Bus 10A or permission of instructor. A course that uses the "practice set approach" in learning how to journalize and post transactions for merchandising businesses that keep their books on the accrual basis.

BUS 11 (3) PERSONAL FINANCE 3 Hrs. Lec.

Practical application of the principles of good business to the handling of personal funds. Budgets, financial services, insurance, investments, home ownership, taxes, and consumer problems. (Same as Soc Sci 69)

BUS 12 (2) PERSONAL INCOME TAX 2 Hrs. Lec.

An elementary course in computation of income tax, use of forms and some of the less complex computations. Tax regulations are studied and students are taught to prepare returns.

BUS 13 (3) APPLIED BUSINESS LAW 3 Hrs. Lec.

A one-semester course covering courts and court procedures, contracts, sales, bailments, negotiable instruments, agency and employment, partnerships, corporations, insurance, and property. Not open to students who have completed Bus 5 or the equivalent.

BUS 14 (3) PRACTICAL SALESMANSHIP 3 Hrs. Lec.

The practical background of salesmanship; the duties and functions of a salesman in the selling of ideas, services, and products. Includes the place and importance of salesmen in the marketing structure of the U.S. economy.

BUS 19 (3) PERSONAL DEVELOPMENT FOR EMPLOYMENT 3 Hrs. Lec.

A thorough study of the process and practice of obtaining employment in the business world. Designed to meet the special needs of students in the fields such as: Marketing-Distribution; Business Supervision; Secretarial-Clerical; Accounting-Bookkeeping; and

Data Processing, etc. Skills development in the areas of job search, employer contact, resume writing, interviewing techniques, interview follow-up, proper dress, and job-holding practices.

BUS 20 (2) ELEMENTARY TYPEWRITING 2 Hrs. Lec. 3 Hrs. Lab.

Designed to impart the fundamental skills and knowledge of typing. The student is introduced to the basic concepts of typewriting production. Not open to students who have had previous instruction in typewriting.

BUS 21AB (2-2) PROFICIENCY—EXIT TYPEWRITING 1 Hr. Lec. 4 Hrs. Lab.

Prerequisite: Bus 20 or the ability to type 20 wpm. Designed to bring students to an office-level skill. Emphasis is placed on business letters, manuscripts, tabulation and statistical work. Bus 21B may be taken by those students who do not attain office-level proficiency in Bus 21A.

BUS 22 (1) MACHINE TRANSCRIPTION 3 Hrs. Lab.

Prerequisite: Bus 40 or demonstrated knowledge of English grammar by test and ability to type 40 wpm. Use of dictating-transcribing machine.

BUS 23 (3) OFFICE MACHINES 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Satisfactory score on mathematics placement test or completion of Math 51 with a C or better grade. Develops skills required for rapid and accurate operation of calculating machines.

BUS 24 (3) RECORDS MANAGEMENT 3 Hrs. Lec.

Lecture and supervised individual and group procedural activity designed to acquaint students with progressive filing and records management rules, procedures and techniques. Alphabetic, numeric, geographic and subject filing are studied.

BUS 25 (2) FINANCIAL RECORD TYPING 1 Hr. Lec. 4 Hrs. Lab.

Prerequisite: Bus 20 or ability to type 20 wpm. (Suggested concurrent enrollment in or completion of Bookkeeping.) Designed to bring students to an office-level skill in production work relating to a financial office. Emphasis is placed on business forms, financial tables, statistical typing, and speed/accuracy development.

BUS 26 (3) ELEMENTARY STATISTICS 3 Hrs. Lec. (Same as Math 12/Psych 12)

BUS 30 (3) ALPHABETIC SHORTHAND 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Knowledge of typing keyboard. A beginning course in shorthand. Theory and dictation practice for students who have had no previous training. The course is designed to meet needs of personal, and in some cases, vocational usage.

BUS 31 (3) ELEMENTARY SHORTHAND 2 Hrs. Lec. 3 Hrs. Lab.

A beginning course in Gregg Shorthand. Theory and dictation practice. Designed for the needs of professional secretaries.

BUS 32AB (3-3) DICTATION AND TRANSCRIPTION LAB

1 Hr. Lec. 4 Hrs. Lab.

Prerequisite: Bus 31 or Bus 33 or one year of high school shorthand. Minimum dictation rate of 60 wpm. Review of theory with increasing emphasis on dictation and transcription speed building to produce mailable copy of business dictation.

BUS 33 (2) GREGG SHORHAND REVIEW 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Knowledge of Gregg Shorthand. A review course of Gregg Shorthand theory. Theory and dictation practice for students to develop shorthand skills to the entry level required for the dictation-transcription course.

BUS 36 (3) INTERMEDIATE SHORTHAND FOR BILINGUALS

2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Dictation ability of 60 wpm and bilingual English and Spanish. A review of Gregg Shorthand theory. Speed building through dictation and transcription in both English and Spanish. (Same as Span 18)

BUS 39 (3) OFFICE PROCEDURES 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Bus 21AB or the ability to type 50 wpm. An integrated course oriented toward production techniques that meet the standards of the business community. Covers the full range of office duties stressing those competencies required of the general office worker.

BUS 40 (3) GRAMMAR AND USAGE 3 Hrs. Lec.

Prerequisite: Assignment by placement test. A review of the parts of speech, the

structure of the sentence, and punctuation. Exercises to improve English usage will begin with the writing of various sentence types and progress to the writing of single descriptive and expository paragraphs. Designed for the student who needs to review and practice basic skills before taking Eng 51 or Eng AB. Concurrent enrollment in Eng 50AB is strongly recommended. Satisfies part of the graduation requirement in communications.

BUS 41 (2) **ESSENTIALS OF BUSINESS** CORRESPONDENCE 2 Hrs. Lec.

Prerequisite: Ability to type. Bus 40 recommended. Emphasizes the basic elements and skills necessary for effective business communications. The business vocabulary - pronunciation, spelling, meaning, and punctuation together with standard letter-writing styles will be stressed. Not open to students who have completed Bus 42.

BUS 42 (3) **BUSINESS CORRESPONDENCE** 3 Hrs. Lec.

Prerequisite: Typing skill. Major emphasis will be given to letter form and style, the psychology of the sales letter, letters of complaint and adjustment, credit and collection, job application and the business report.

BUS 43 (3) **BUSINESS CORRESPONDENCE IN** SPANISH

3 Hrs. Lec. (Same as Span 19)

BUS 48 (2) **MEDICAL INSURANCE** 2 Hrs. Lec.

Prerequisite: Bus 21AB. A course for persons intending to work in a physician's office, hospital or clinic business office. Topics include Medi-Cal, Medicare, Workmen's Compensation, group and individual health insurance policies, professional liability, instruction in reading and interpreting policies, completion of forms from medical records.

BUS 49A (3) **MEDICAL TERMINOLOGY FOR SECRETARIES**

3 Hrs. Lec.

Provides training in the proper usage, meaning and origin of terms and names used in the medical sciences. Emphasizes terms utilized in the state of health, symptoms, diagnostic tools and diagnoses. The course is designed for medical secretarial students.

BUS 49B (3) **MEDICAL TERMINOLOGY FOR SECRETARIES** 3 Hrs. Lec.

Prerequisite: Bus 49A. Provides training in the proper usage, meaning and origin of terms and names used in the medical sciences. Emphasis is on diagnosis and treatment of disease states. The course is designed for medical secretarial students.

BUS 50 (3) INTRODUCTION TO DATA **PROCESSING** 3 Hrs. Lec.

An introductory course designed to teach the basic understanding of data processing systems, to survey unitrecord machines, to familiarize the student with the electronic computer as the basis for data processing systems

BUS 51 (3) **DATA PROCESSING OPERATIONS** 3 Hrs. Lec. 1 Hr. Lab.

and to teach basic Fortran IV.

An introduction to computer hardware and its operation. Students will experience actual hands-on operation with key punches, sorters, key-to-tape devices, and digital computers.

BUS 52 (3) COMPUTER PROGRAMMING I 3 Hrs. Lec.

Prerequisite: Bus 50. A basic course in the programming of electronic digital computers to prepare programmers and students of closely related occupations for employment in business and industry. Course covers problems of data processing, characteristics of computers and computer programming.

BUS 53 (3) COMPUTER PROGRAMMING II 3 Hrs. Lec.

Prerequisite: Bus 52. A second semester course in electronic digital computer programming designed for student achievement of technological proficiency in programming input and output devices, machine-aided coding, program optimizing, basic file maintenance, computer problem planning and report writing.

BUS 54 (3) DATA PROCESSING SYSTEMS 3 Hrs. Lec.

Prerequisite: Bus 53. A study of data processing systems and procedures including analysis of various existing business data processing applications, integrated processing principles, total management information, and data systems concepts. Case study projects developing detailed data processing procedures are stressed.

BUS 55 (3) PROGRAMMING IN FORTRAN 3 Hrs. Lec.

A practical course covering the fu mentals of Fortran Programming L uage as adapted to a variety of diffapplications. (Same as Math 47)

BUS 56AB (1-1) **COMPUTER OPERATIONS LAB** 2 Hrs. Lab.

Prerequisite: Concurrent enrollme Bus 52 or Bus 53. Course design: provide an opportunity for addit experiences with software and hard related to the curricula of Bus 52 Bus 53.

BUS 57 (3) PROGRAMMING IN BASIC 3 Hrs. Lec.

A practical course covering the fu mentals of BASIC Programming guage as adapted to a variety of diffe applications.

BUS 59 (1) KEYPUNCHING

1 Hr. Lec. 2 Hrs. Lab.

Prerequisites: Ability to type 40 v Beginning course in acquainting student with the basic principle punched card key machines. The co is designed to develop keypunc skills to entrance-level job requireme

BUS 60 (3) PRINCIPLES OF BANK OPERATION 3 Hrs. Lec.

Fundamentals of bank function in descriptive fashion so that the begin student may seek a broad and open spective in banking.

BUS 61 (3) ANALYSIS OF FINANCIAL **STATEMENTS**

3 Hrs. Lec.

Prerequisites: Bus 1A and 1B. course focuses upon investment analysis of credit to appraise the ex and nature of risk involved, and to de mine the willingness and ability of spective debtor to repay a prope loan in accordance with terms set for Topic includes profit-loss anal Analyzing of inventory and the deve ment of ratio analysis.

BUS 62 (3) **INSTALLMENT CREDIT** 3 Hrs. Lec.

In this class, emphasis is placed establishing the credit obtained checking information; servicing the and calculating the amount due. C topics discussed are inventory finan and special loan programs. Busidevelopment advertising in the relat aspect of installment lending.

BUS 63 (3) FINANCING BUSINESS ENTERPRISES

3 Hrs. Lec.

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Stress is placed on the difference between lending and investing. Investing in a corporation and financing a corporation or the different aspects of the same subject. In this course, the material is presented from a viewpoint of a corporate treasurer who must safeguard the financial future of his corporation.

BUS 64 (3) AGRICULTURAL FINANCE 3 Hrs. Lec.

This course emphasizes general principal associations with evaluation of management and the use of capital rather than stressing the examination of land and labor resources which are more closely aligned with agricultural production. An understanding of agricultural financing should help the banker in satisfying the credit needs of modern agriculture.

BUS 65 (2) RETAIL SALES CHECKING 2 Hrs. Lec. 1 Hr. Lab.

A practical skills course of instruction designed to prepare a person to become an efficient retail sales checker.

BUS 70 (3) FUNDAMENTALS OF GOVERNMENTAL MANAGEMENT

Explores theory and practice of complex organizations with emphasis on administrative structure and functions, the role of bureaucracy; and the conditioning of administration by its environment. Techniques and practices are suggested which will help carry out duties effectively. Deals with management analysis techniques; systems analysis and systems implementation; organization audits appraisal and management by objectives; work and time measurement techniques; the organization (chart), its structure and communications system; forms and records management; manuals and other administrative directives; work simplification, techniques of work-flow and process charting; reports control.

BUS 71 (3) STATE AND LOCAL GOVERNMENT MANAGEMENT

3 Hrs. Lec.

State, county, city and special district governments explored in terms of urban and metropolitan challenges confronting political units in California and the local vicinity, with emphasis on racial and ethnic relations, problems in provision of public services, crime and

justice, planning and renewal, intergovernmental conflict and relations; including a description of administration, identification of sources of fiscal support, inventory of services, and procedures for regulation and modification.

BUS 72 (3) FINANCE MANAGEMENT 3 Hrs. Lec.

Appraises the usefulness of fiscal mechanism, outlines the generally accepted principles of organization and procedure, the relationships of the several fiscal functions to each other. Surveys fiscal policies; the appropriation process; accounting, tax, revenue, financial controls, reporting, and analysis; budget preparation, authorization, and execution; planning budgeting system; fiscal relationships; cost analysis; and audits

BUS 79 (3) PUBLIC RELATIONS TECHNIQUES 3 Hrs. Lec. (Same as Jrn 8)

BUS 89 (3) LAW OFFICE PROCEDURES AND PRACTICES FOR SECRETARIES 3 Hrs. Lec.

Practical instruction and exercises for secretaries; forms of pleadings; procedures for various actions (probate, divorce, and civil litigation); the law library and legal research; dictation of legal documents.

BUS 90 (3) REAL ESTATE PRINCIPLES 3 Hrs. Lec.

An analysis of the principles of real estate in California; history of California real estate, property, contractors, agency, listings, real estate financing, deeds, liens and encumbrances, escrows and title insurance, land descriptions, real estate mathematics, and real estate licensing and state regulations.

BUS 91 (3) REAL ESTATE PRACTICES 3 Hrs. Lec.

Prerequisite: Bus 90 or employment in the real estate field as a licensee. An analysis of the problems related to the establishing and conducting of a real estate business; the real estate business, the real estate office, listings, valuation of listings, prospecting, advertising, the selling process, closing the sale, financing real estate, exchanges and specialized brokerages, income properties, property management and leasing, taxes and real estate deals, land utilization, and professional and public relations.

BUS 92A (3) LEGAL ASPECTS OF REAL ESTATE 3 Hrs. Lec.

Prerequisite: Bus 90 or employment in the real estate field as a licensee. A practical applied study of California Real Estate Law intended to be of help in avoiding legal difficulties which can arise in connection with real estate transactions.

BUS 92B (3) LEGAL ASPECTS OF REAL ESTATE 3 Hrs. Lec.

Prerequisites: Bus 92A or real estate license. This course expands the coverage of the basic course outline on this subject to include further consideration of those areas of the law where problems are most frequently encountered or which present so many facets that further time is needed to consider adequately the scope and effect of applicable laws.

BUS 93 (3) REAL ESTATE FINANCE 3 Hrs. Lec.

Prerequisite: Bus 90 or employment in the real estate field as a licensee. A practical applied study and analysis of money markets, interest rates and real estate financing, with actual case illustrations demonstrating lending policies, problems, and rules involved in financing real property, including residential, multifamily, commercial, and special purpose properties.

BUS 94A (3) REAL ESTATE APPRAISAL 3 Hrs. Lec.

Prerequisite: Permission of the instructor or employment in the real estate field as a licensee. Methods and techniques for determination of loan, market, and insurance values. Case study methods are employed; field work and demonstration appraisal reports are required. Principles of real estate valuations; cost, market data, summation and sales analysis methods of appraising are studied with an emphasis on residential properties.

BUS 94B (3) REAL ESTATE APPRAISAL 3 Hrs. Lec.

Prerequisite: Bus 94A or real estate license. This course extends the appraisal techniques of real estate appraisal and the use of the three standard approaches to value on the many types of properties and interests that an appraiser might be called upon for an opinion of value, such as apartments, commercial, industrial, rural property, leasehold interest, business values, and the bounds of responsibility.

BUS 95 (3) REAL ESTATE ECONOMICS 3 Hrs. Lec.

Prerequisites: Bus 90, 91, 92A and 92B, recommended Bus 93, 94A and 94B. A practical study of the economic aspects of real estate designed to provide a grasp of the dynamic economic conditions and other factors underlying the real estate business in California. This is designed to be the senior course — the final course — in the real estate curriculum.

BUS 96 (3) INTRODUCTION TO PROPERTY MANAGEMENT 3 Hrs. Lec.

This course, broad in scope, is designed to assist a professional real property manager and/or owner in the administration of income-producing real property, such as renting, leasing, and maintenance of physical facilities.

CARPENTRY

CARP 1 (3) APPRENTICESHIP AND MATHEMATICS

2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Permission of the instructor. This course is designed so that the apprentice will know what part to take in the construction industry. It will introduce the following subjects: the construction industry, collective bargaining, the role of government, wages and benefits, the purpose of the joint apprenticeship committee, and the development of carpentry mathematics skills which are necessary.

CARP 2 (3) PRE-JOB AND PLOT PLANNING 2 Hrs. Lec. 2 Hrs. Leb.

Prerequisite: Successful completion of Carp 1 or permission of the instructor. This course is designed to introduce the apprentice to interpret and apply the building codes, the types and purposes of pre-job planning, who is responsible for it, why it is important and where it begins. The student will also learn to read blueprints and specifications, understand surveys, property and building lines, and setbacks. Excavating and trenching, foundations, walls and retaining wall forms will also be covered.

CARP 3 (3) ROUGH FRAMING 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Satisfactory completion of Carp 2 or permission of the instructor. This course is designed to teach the student various methods of framing, such as plot form or Western versus Ballon Framing, materials used, limitations in building, fire preventions, layout

procedures and how to calculate for rough openings and a study of the building codes.

CARP 4 (3) ROOF FRAMING 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Satisfactory completion of Carp 3 or permission of instructor. A course designed to cover the types and styles of roofs, roof framing tools, roof design, layout of common and shed roof rafters, layout of hip, volley and jack rafters, materials, and erecting roofs.

CARP 5 (3) INTERIOR AND EXTERIOR FINISH 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Completion of Carp 4 or permission of the instructor. A complete study of modern home exteriors and interiors; finishes and design will be covered. Emphasis will be on why certain types of materials are used. Nomenclature and the methods of cutting and installing finishes will be studied.

CARP 6 (3) STAIR BUILDING 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Satisfactory completion of Carp 5. The student will study the many types of stairs and stair design. The code requirements for stairway construction will be covered.

CARP 7 (3) CONCRETE AND FORMS 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Completion of Carp 6 or permission of the instructor. The student will learn how to erect concrete forms and identify the materials to be used, which is a very important area of study. Estimating the amount of concrete needed and how to place it will also be learned.

CARP 8 (3) HEAVY TIMBER CONSTRUCTION AND WELDING

2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Completion of Carp 7 or permission of the instructor. This course is designed to teach the student how to place timbers and secure them, usually in dams and bridges. Welding in the areas important for the journeyman will be taught. Nomenclature of heavy timber construction will be covered.

CHEMISTRY

CHEM 1A (5) GENERAL INORGANIC CHEMISTRY 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: High school algebra and plane geometry or satisfactory score on mathematics placement exam, high

school chemistry or Chem 2A. Further mental principles and theory of at and molecular structure related bonding and geometry. Study of kir molecular theory and the first lather modynamics. Periodic relations of the elements, physical state matter, solutions, oxidation-reduce electrolysis and equilibrium. Laborate exercises to strengthen and illust concepts from lectures.

CHEM 1B (5) GENERAL INORGANIC CHEMIST 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Chem 1A with a mining grade of C. Detailed study of three of thermodynamics and their relation chemical reactions, rates of reaction and equilibrium. Survey of selegroups from the periodic table, or tion-reduction with respect to contration, nuclear processes and introtory organic reactions. Laboratory cises related to electrochemical stuand qualitative analysis.

CHEM 2A (4) INTRODUCTION TO CHEMISTRY 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: One year of high so algebra or its equivalent. Intended students who have not had high so chemistry or who need further preption for Chem 1A. The course is recomended for those who desire a bunderstanding of the elementary proples of chemistry. Not open to study who have completed Chem 1A or equivalent. Course may be offered Credit class.

CHEM 5 (4) QUANTITATIVE ANALYSIS 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Chem 1B. Theory practice of volumetric and electrochical methods of analysis. (Usi offered during Summer Session)

CHEM 12 (5) ORGANIC CHEMISTRY 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Chem 1B. A study of compounds of carbon with speemphasis on the aliphatic compouincludes an introduction to the arom compounds. Emphasis is given to molecular orbital concept through the course.

CONSTRUCTION INSPECTION

CI 6A (3) CONSTRUCTION INSPECTION FO FIRE PREVENTION

A basic course designed to give student a fundamental understanding

the elements and concepts involve the fire and life safety provisions of Uniform Building Code. CI 6B (3) INSPECTION FOR FIRE PREVENTION 3 Hrs. Lec.

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A basic course designed to give the student a fundamental understanding of the elements and concepts involved in the construction and inspecting provisions of the Uniform Building Code. A continuation of CI 6A.

COSMETOLOGY

The A.S. Degree will be awarded to graduates of cosmetology schools who meet the following criteria and complete the following program:

- Graduate of a school of cosmetology that prepared students for a State Board of Cosmetology Examination.
- Present California Cosmetologist License.
- Present enrollment at Imperial Valley College.

Subject Area and General Education courses to meet requirements for graduation 20 units

Physical Education and Mathematics, if required

Application for this degree must verify items 1 and 2 of the criteria with the instructor of Cosmetology and the Dean of Vocational-Technical Education. Check with Counseling Center for procedure to follow.

COS 50A (10) INTRODUCTION TO COSMETOLOGY 360 Classroom Hrs.

Prerequisite: At least a 10th grade education or the equivalent. State rules and regulations set forth by the California State Board of Cosmetology. Introduction to sterilization and sanitation for patron protection. Personal development as a cosmetologist. Introduction to all phases of cosmetology, including theory and practical (Lab). Introduction to the Anatomy in Beauty Culture. Instruction in proper use and care of all equipment necessary in cosmetology.

COS 50B (10) INTRODUCTION TO COSMETOLOGY 360 Classroom Hrs.

Prerequisite: At least a 10th grade education or the equivalent. Introduction to cosmetic chemistry. Correct application to shampoo, cold waving, hair coloring, manicuring, basic hair

styling, curl construction, and roller placement. Theory of anatomy and dermatology. Diseases and conditions pertaining to cosmetology. Facials, make-up, basic hair cutting and scalp treatments.

COS 52A (10) INTERMEDIATE COSMETOLOGY 360 Classroom Hrs.

Prerequisite: At least a 10th grade education or the equivalent. Cosmetology Act and rules set forth by the State Board of Cosmetology. Theory of anatomy and bacteriology pertaining to cosmetology. Theory and practical training in chemical hair relaxing and hair pressing. Use of electrical equipment in all phases of cosmetology.

COS 52B (10) INTERMEDIATE COSMETOLOGY 360 Classroom Hrs.

Prerequisite: At least a 10th grade education or the equivalent. The continued theoretical and practical training in all phases of cosmetology introduced in previous courses. Laboratory and desk experience. Techniques of salesmanship, methods of advanced hair styling, and the construction, care and fitting of wigs. Laboratory safety practices in the use of chemicals.

COS 54A (5) ADVANCED COSMETOLOGY 160 Classroom Hrs.

Prerequisite: At least a 10th grade education or the equivalent. Theory of salon management and employment practices. Study of electricity, use of the sonoscope, and training in use of slide and movie projectors. State Board preparation in all phases of cosmetology.

DRAMATIC ART

DRM ART 5A (3) HISTORY OF WORLD DRAMA 3 Hrs. Lec.

The study of the history of drama and theatre development from primitive times to the present. Emphasis will be placed on the correlation between staging and acting techniques and dramatic literature. Drm Art 5A covers theatre development through Ibsen.

DRM ART 5B (3) HISTORY OF WORLD DRAMA 3 Hrs. Lec.

Covers the period from Ibsen to the present. Drm Art 5B may be taken before Drm Art 5A.

DRM ART 20AB (3-3) FUNDAMENTALS OF ACTING 2 Hrs. Lec. 3 Hrs. Lab.

An introduction to the interpretation of drama through the art of the actor. Development of individual insights, skills, and disciplines in the presentation of the dramatic material to an audience. Laboratory hours to be arranged.

DRM ART 21 (3) INTERMEDIATE ACTING 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Drm Art 20AB. A continuation of Drm Art 20AB with further emphasis on fundamental acting skills, laboratory hours to be arranged.

DRM ART 22ABCD (1-1-1-1) REHEARSAL AND PERFORMANCE 3 Hrs. Lab.

Prerequisite: Permission of the instructor. Enrollment contingent upon participation in campus major dramatic production. Maximum credit 1 unit per semester for four semesters. Hours to be arranged.

DRM ART 23 (3) MODERN DRAMA

3 Hrs. Lec.

Reading and discussion of selected plays. A general education course for the student interested in literature. (Same as Eng 23)

EARLY CHILDHOOD EDUCATION

ECE 4 (3)
BILINGUAL-MULTICULTURAL
CURRICULUM AND INSTRUCTION
3 Hrs. Lec.
(Same as TA 4)

ECE 6 (3)
LANGUAGE DEVELOPMENT FOR
YOUNG CHILDREN
3 Hrs. Lec.

(Same as TA 6)

ECE 8 (3) MATHEMATICS FOR YOUNG CHILDREN 3 Hrs. Lec.

(Same as TA 8)

ECE 20 (3) DEVELOPMENTAL PSYCHOLOGY OF CHILDREN 3 Hrs. Lec.

(Same as Psych 20)

ECE 21 (3) EARLY CHILDHOOD SOCIALIZATION: CHILDREN, FAMILY AND COMMUNITY

3 Hrs. Lec.

This course includes the dynamics of the child-parent-teacher relationships; patterns of family living and influences on the child; home-nursery school communication and development of community resources. The effect of cultural differences will be covered. The course is designed to encourage and promote the child's self-development

within the sociological environment. While this course lends itself to nursery school personnel, it can also be used by parents and prospective parents. (Same as Psych 21)

ECE 22 (3) PRINCIPLES OF CHILD DEVELOPMENT AND OBSERVATION 3 Hrs. Lec.

Application of the principles of the physical, intellectual, emotional and social growth in early childhood education. Observations and visitations to various types of schools in the community will be required. (Same as Psych 22)

ECE 23 (3) EARLY CHILDHOOD DEVELOPMENTAL CURRICULUM 3 Hrs. Lec.

Prerequisites: ECE 20/Psych 20. This course is designed for the development of curriculum for Early Childhood Education. Students will learn to establish curriculum goals on the principle of child growth and development. Students will conduct teaching experiences for children which will include: cognitive development through language, movement and creative experiences. Observations and participation at area schools is required. (Same as Psych 23)

ECE 24 (3) CREATIVE LEARNING EXPERIENCES FOR YOUNG CHILDREN

3 Hrs. Lec.

The course deals with the development, guidance and importance of creative activities for children. The course will show how to include art, music, dancemovement, drama, and puppetry in the curriculum. Creative materials and methods will be developed by each student. (Same as Psych 24 and TA 24)

ECE 25 (3) FIELD EXPERIENCE 1 Hr. Lec. 10 Hrs. Field Experience

Prerequisites: ECE/Psych 20, 21, 22 and 23AB. Supervised field work experience in the Early Childhood program. Provides practical opportunities to use knowledge, methods, skills gained in previous courses. Seminars cover class experiences, discussion of common problems, exchange of ideas, techniques and materials. Students may do their student teaching at their preschool place of employment. (Same as Psych 25)

ECE 26 (3) THE ART OF PARENTING 3 Hrs. Lec. (Same as Psych 26)

ECE 27 (3) UNDERSTANDING EXCEPTIONAL STUDENTS

2 Hrs. Lec. 2 Hrs. Lab. (Same as Psych 27/P.L. 1)

ECE 28 (3) ADMINISTRATION AND SUPERVISION IN EARLY CHILDHOOD EDUCATION

3 Hrs. Lec.

Prerequisites: ECE 20, 21, 22, 23, 24, 25. Application of basic management principles in preschools including State regulations, funding, budget preparation and policy writing. A director's responsibilities in hiring practices, staff management and facility maintenance. Parent involvement, community cooperation, program evaluation and assessment methods will be studied. (Same as Psych 28)

ECE 29 (2) CHILD DEVELOPMENT ASSOCIATE INTRODUCTION & INITIAL ASSESSMENT

1 Hr. Lec. 2 Hrs. Lab.

An overview of the Child Development Associate program including history, training, credentialing and critical issues. Class open to anyone interested in CDA. The student completes a self-assessment based on the CDA functional areas and identifying both strong and weak areas. Assessment is based on the student's performance in the classroom. (Same as Psych 29)

ECE 31 (2) CHILD DEVELOPMENT ASSOCIATE PORTFOLIO

2 Hrs. Lec.

The course includes the development of the Child Development Associate Portfolio. The student will demonstrate proficiency in each competency area. (Same as Psych 31)

ECONOMICS

ECON 1 (3) PRINCIPLES OF ECONOMICS 3 Hrs. Lec.

An introduction to economic concepts and the principles of economic analysis. Emphasis on economic institutions, issues of public policy; and macroanalysis in national income, money and banking, and economic stabilization.

ECON 2 (3) PRINCIPLES OF ECONOMICS

3 Hrs. Lec.

An introduction to economic concepts and principles of economic analysis. Emphasis on economic institutions, issues of public policy; and microanalysis in the direction of production and the allocation of resources through the price-system.

EDUCATION

ED 1 (2) INTRODUCTION TO EDUCATION 1 Hr. Lec. 3 Hrs. Lab.

Recommended for students intere in a teaching credential. Opportunit explore specific grade levels throweekly observations and participatic actual classroom situations. Government of the varied aspect teaching.

ELECTRICITY

ELECTRICITY 1 (3) BASIC ELECTRICITY 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Math 51 or satisfact score on placement test, introductory course to the study of extricity and electronics. Basic theorethe physical phenomena involved in use and selection of various electromponents, instruments and circuit presented in the lecture. Prace experiments demonstrating this the are performed in the lab.

ELECTRONICS

ELECTRONICS 1A (4) BASIC ELECTRONICS 3 Hrs. Lec. 4 Hrs. Lab.

Prerequisites: Electricity 1 or satistory score on the electronics screen examination and completion of Mator satisfactory score on the placen examination. Course covers the fur mental characteristics of transistors diodes; linear amplifiers and sin stage amplifiers.

ELECTRONICS 1B (3) ELECTRONICS ASSEMBLY AND FABRICATION

2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Electronics 1A. A cours familiarize the electronics student the tools, hardware and procedused in the assembly and fabricatio electronics systems.

ELECTRONICS 2 (5) TRANSISTORS AND SEMICONDUCTORS

3 Hrs. Lec. 4 Hrs. Lab.

Prerequisites: Electronics 1A and Study of the semi-conductor dev and circuits with application of fur mental network theorems to electrocircuits and propogation.

ELECTRONICS 3 (3) FCC 2nd CLASS RADIOTELEPHONE LICENSE PREPARATION

3 Hrs. Lec.

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Prerequisite: Electronics 2. Preparation for second class radio-telephone operator's license and operation and maintenance of studio equipment and transmitters.

ELECTRONICS 4 (3) FCC 1st CLASS RADIOTELEPHONE LICENSE PREPARATION 3 Hrs. Lec.

Prerequisites: Electronics 3, a Second Class FCC Radiotelephone License, or satisfactory score on screening examination. Preparation for the first class radiotelephone operator's license and advanced problems in studio and transmitter operation.

ELECTRONICS 5 (3) PRACTICAL DIGITAL ELECTRONICS 3 Hrs. Lec.

Prerequisite: Electronics 2. Theory and application of switching networks and nonlinear solid-state systems; includes circuits, truth tables and elementary digital circuit analysis.

EMERGENCY MEDICAL TECHNICIAN

EMT 1/A (5.5) EMERGENCY MEDICAL TECHNICIAN 1/AMBULANCE 5 Hrs. Lec. 1.7 Hrs. Lab.

A course for individuals who will come in contact with sick or injured persons in emergency situation. Although aimed primarily for ambulance attendants, the course would be of valuable assistance to all emergency service personnel in law enforcement, fire fighting, hospital emergency rooms and rescue units. Topics considered will include the role and responsibilities of the Emergency Medical Technician, medical-legal responsibilities and community resources for health and social care. Students will be taught to evaluate diagnostic signs and determine the extent of injuries. Procedures for dealing with life-threatening emergencies are presented: pulmonary and cardiopulmonary resuscitation, control of hemorrhage. Other medical and environmental problems, childbirth and lifting and moving techniques will also be considered. Students will receive clinical laboratory experiences in hospital emergency rooms and on ambulance calls. The course is approved by the California Department of Health for EMT training. One hundred and seventeen hours required for completion of courses: 87 hrs. Lec. (five hrs. weekly); and 30 hrs. Lab.

EMT 1A/(R) (1.5) EMERGENCY MEDICAL TECHNICIAN 1/AMBULANCE REFRESHER 1.5 Hrs. Lec. 0.4 Hrs. Lab.

Prerequisite: EMT 1/A and current CPR certification. A course for individuals whose EMT 1/A course completion certificates will expire within the next six months (certification may not be expired more than twelve months). The course will review life support measures, cardiopulmonary resuscitation and the use of emergency medical equipment and supplies. Specific problems related to Imperial County will be discussed. Thirty-six hours required for completion of course: 28 hrs. Lec.; 8 hrs. Lab.

EMT 1/FS (5) EMERGENCY MEDICAL TECHNICIAN 1/FIRE SCIENCE

5 Hrs. Lec. 1 Hr. Lab.

A course to prepare fire service personnel to render pre-hospital basic life support services, including cardiopulmonary resuscitation, to sick and injured persons under field emergency conditions. Preparation of the patient for transport is covered; however, actual transportation of patients in ambulances is not covered. (Certification as an EMT-1/A is required by law to work on an ambulance in California. EMT-1/FS certification does not meet this requirement). Topics covered include the role and responsibilities of the EMT, medicolegal aspects of emergency care, and patient evaluation. Students will learn how to take and evaluate vital signs, medical history, and field physical exam. Procedures for dealing with lifethreatening emergencies are presented. Control of hemmorrhage, childbirth, stroke, burns, and extrication are included. This course is approved by the State Board of Fire Services. 105 hours required for completion of course: 87 hours lecture (5 hrs. weekly) and 18 hours lab.

EMT 1/FS(R) (1) EMERGENCY MEDICAL TECHNICIAN 1/FIRE SCIENCE REFRESHER 1.1 Hrs. Lec. .3 Hr. Lab.

Prerequisite: Certification as a California EMT-1 or EMT-1/FS or EMT-1/PS which will expire in the next 6 months or has been expired less than 12 months. This is a recertification course for persons who hold a California EMT-1/A, EMT-1/FS or EMT-1/PS which will expire in the next 6 months or has expired within the last 12 months. The student will review material covered in the EMT-1 course, including field patient evaluation, cardiopulmonary resuscitation, airway maintenance, oxygen therapy,

shock, hemorrhage, application of dressings, bandages and splints, immobilization techniques, extrication, lifting and moving techniques, emergency incident management, triage, and emergency childbirth. Discussion of new developments in emergency medical services will be included. Students intending to work on an ambulance must recertify as an EMT-1/A, which is a different course. 26 hours required for completion of course: 20 hrs. Lec.; 6 hrs. Lab.

ENGINEERING

ENGR 2A (3) ENGINEERING DRAWING 1½ Hrs. Lec. 4½ Hrs. Lab.

Prerequisite: Engr 21 or equivalent, or permission of the instructor. Geometric construction, sketching, dimensioning, theory of orthogonal projections and auxiliaries.

ENGR 2B (3) MECHANISMS

11/2 Hrs. Lec. 41/2 Hrs. Lab.

Prerequisite: Engr 2A. Sectioning, tolerance, piping, structural and mechanical design, velocities and accelerations in machines, cams, gears and gear teeth.

ENGR 3 (3) DESCRIPTIVE GEOMETRY 1½ Hrs. Lec. 4½ Hrs. Lab.

Prerequisite: Engr 2A or 2B. An advanced course in drawing: three dimensional location of points, lines and planes; surface and intersection problems with engineering applications and vector geometry.

ENGR 5 (3) STRENGTH OF MATERIALS 3 Hrs. Lec.

Prerequisite: Engr 15. Review of vectors, components of forces, force moments, equilibrium, centroids and moments of inertia of an area. Stress and strain for beams, columns, bars and shafts. Bending moments combined with torque.

ENGR 6 (3) PROPERTIES OF MATERIALS 1 Hr. Lec. 5 Hrs. Lab.

Prerequisites: Phys 2A and Math C. Study of properties of materials, technical methods of testing, structural uses, and methods of manufacture.

ENGR 10 (3) ENGINEERING PROBLEMS 3 Hrs. Lec.

Prerequisite: Math 2 or Engr 61B. An applied course in geometry, algebra, and trigonometry with applications to problems in engineering.

ENGR 11 (3) BASIC ELECTRICITY 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Math 2 or Math 3A. An introductory course to the study of electricity and electronics. Basic theory of the physical phenomena involved in the use and selection of various electrical components, instruments and circuits is presented in the lecture. Practical experiments demonstrating this theory are performed in the lab.

ENGR 12 (3) ARCHITECTURAL DRAFTING I 1 Hr. Lec. 5 Hrs. Lab.

Prerequisite: Engr 2A or eligibility for Engr 2A. The course offers: basic elements in planning various areas of a residential structure and combining these areas into a composite functional plan, basic techniques and procedures needed in preparing architectural floor plans, foundation plans and pictorial drawings; local building regulations and California Building Code.

ENGR 13 (3) ARCHITECTURAL DRAFTING II 1 Hr. Lec. 5 Hrs. Lab.

Prerequisites: Engr 12 or equivalent. Technical architectural residential design including location plans, sectional drawings, foundation plans of various types, framing plans, specifications, electrical and air-conditioning plans, plumbing diagrams and modular construction plans, building codes. History of architecture.

ENGR 14 (3) ARCHITECTURAL DRAWING III 1 Hr. Lec. 5 Hrs. Lab.

Prerequisite: Engr 13 or equivalent. Working drawings for small commercial buildings. Planning merchandising facilities: banks, medical offices and clinics, food stores, restaurants and cafeterias, motels and parking facilities, shopping centers, churches. Curtainwall systems. Uniform Building Code. Modern American architecture.

ENGR 15 (3) STATICS 3 Hrs. Lec.

Prerequisite: Phys 4A. Using vector algebra for analyzing and solving practical problems. Problems dealing with force systems, static equilibrium requirements, centroids, friction, moments of inertia of area and mass, centers of gravity, shear and moment diagrams.

ENGR 16 (3) DYNAMICS 3 Hrs. Lec.

Prerequisites: Engr 15 and Phys 4B. Kinematics of a particle, radius of gyration, dynamics of a particle, dynamics of a rigid body in plane motion, translation and rotation, working energy impulse and momentum, simple harmonic motions and vibrations, conservation of linear and angular momentum.

ENGR 18A (3) PLANE SURVEYING 1 Hr. Lec. 6 Hrs. Lab.

Prerequisite: Math C, Engr 21, or equivalent. Principles of surveying, use of surveying instruments in the field, calculations, mapping and plotting.

ENGR 18B (3) ADVANCED SURVEYING 1 Hr. Lec. 6 Hrs. Lab.

Prerequisite: Engr 18A. Topographic surveying with study of triangulation calculations using transit-stadia, profile and cross section work, horizontal curves.

ENGR 19 (6) STATICS AND DYNAMICS 6 Hrs. Lec.

Prerequisites: Phys 4A and Math 3B. Using vector mechanics for analyzing and solving practical problems dealing with force systems, static equilibrium requirements, centroids, friction, moments of inertia of area and mass, centers of gravity, shear and moment diagrams. Kinematics of a particle, radius of gyration, dynamics of a particle, dynamics of a rigid body in plane motion, translation and rotation, working energy impulse and momentum, simple harmonic motions and vibrations, conservation of linear and angular momentum. (Same as Engr 15 and Engr 16)

ENGR 21 (3) TECHNICAL DRAWING 1½ Hrs. Lec. 4½ Hrs. Lab.

A general course for students who have had no high school mechanical drawing. Covers proper use of drafting instruments, geometric constructions, lettering, orthographic projections, pictorial representations, isometric drawings, dimensions, and symbols.

ENGR 23 (1) HAND CALCULATORS AND COMPUTATIONS

1 Hr. Lec.

Prerequisite: Completion of Math X. Performing necessary manipulations with the calculator, while using correct methods to solve engineering and technical problems.

ENGR 30 (2) ORIENTATION TO ENGINEERING 2 Hrs. Lec.

Helping the engineering student ad to college life through motivating expiences and guidance, clarifying country of the engineering college and engineering profession, and aiding student in acquiring the fundament tools and skills required in future we

ENGR 53 (2) CONSTRUCTION MATERIALS 1 Hr. Lec. 3 Hrs. Lab.

Basic theory of structures: matericharacteristics, availability, econo factors, handling, transportation storage. Properties and uses of wo steel, concrete and masonry materications building materials.

ENGR 55 (3) STRENGTHS OF MATERIALS 3 Hrs. Lec.

Prerequisites: Engr 21, Engr 61B Engr 53. Fundamental stress and strelationships, simple stresses, phys properties of engineering materistresses in thin walled cylinders, rive and welded joint, design, investigated stresses and deflections in beams columns, torsional, impact and repeat loading stress.

ENGR 61A (3) TECHNICAL MATHEMATICS 3 Hrs. Lec.

Prerequisite: Satisfactory score mathematics placement test. Slide r variation; algebra fundamentals; f tions; exponents and radicals; linear quadratic functions; solution triangles.

ENGR 61B (3) TECHNICAL MATHEMATICS 3 Hrs. Lec.

Prerequisite: Engr 61A. Applied votional mathematics; manipulation of mulas; introduction to geometry; the of graphs, proportions, percentage.

ENGR 65 (3) STATICS 3 Hrs. Lec.

Prerequisite: Engr 61B or equival Study of vectors; forces and equilibrian

ENGR 66 (6) STATICS AND DYNAMICS 6 Hrs. Lec.

Prerequisites: Math 2 and Engr 61
Engr 10. Analyzing and solving prac
problems dealing with force systes
static equilibrium requirements,
troids, friction, moments of inerti
area and mass, centers of gravity, s
and moment diagrams. Kinematics
particle, radius of gyration, dynamic
a particle, dynamics of a rigid boc
plane motion, translation and rota

working energy impulse and momentum, simple harmonic motions and vibrations, conservation of linear and angular momentum.

ENGR 72A (3) SURVEYING FOR ENGINEERING TECHNOLOGY

1 Hr. Lec. 5 Hrs. Lab.

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Prerequisite: Engr 21 and 61A or equivalent, or permission of the instructor. Care and use of surveying instruments and accessories, differential leveling and measuring horizontal angles.

ENGR 72B (3) SURVEYING FOR ENGINEERING TECHNOLOGY

1 Hr. Lec. 5 Hrs. Lab.

Prerequisite: Engr 72A. Calculations, field book entries, running traverses, mapping and plotting.

ENGLISH

The Nelson-Denny Reading (Placement) Test should be taken by students prior to registration. The test will be administered in the Counseling Center and the Reading/Writing Lab (Room 208). Scores on this test are used to determine the students' reading skills. Students will be enrolled in the appropriate classes based on the sequence detailed below. Concurrent enrollment in composition and reading classes is recommended.

Placement Grade Equivalency Score			Composition Class Recommendation	
below	,	6.0	Eng 58AL	
6.0	to	8.9	Eng 56A, 56B	
9.0	9.0 to		Eng A, B	
over	over		Eng 1A	
	ment (Grade Score	Reading Class Recommendation	
below		6.0	Eng 54A, 54B	
6.0	to	8.9	Eng 50A	
9.0	to	10.9	Eng 50B	
over		10.9	Eng 12	

During the first week of class, students will be given an essay test to determine their writing abilities. The results of this test, along with the Placement Test, will result in final placement of students in a composition class appropriate to their skills by the second week of the semester

Students who receive a grade of C or higher in any of the above classes are automatically entitled to the next class in the sequence.

ENG A (3) BASIC ENGLISH COMPOSITION 3 Hrs. Lec.

Prerequistie: Assignment by placement test and instructor recommendation. Preparation for Eng B. Provides developmental instruction in paragraph and short essay writing and in reading composition and analysis approaching the college level. The course follows in sequence from Eng 56B and is taught simultaneously with Eng B. Concurrent enrollment in Eng 50B is strongly recommended.

ENG B (3) BASIC ENGLISH COMPOSITION 3 Hrs. Lec.

Prerequisite: Assignment by placement test and instructor recommendation. Preparation for Eng 1A. The course seeks to improve the student's mastery of the short essay and to teach reading comprehension and analysis at the college level. The course follows in sequence from, and is taught simultaneously with, Eng A. Concurrent enrollment in Eng 50B is strongly recommended.

ENG 1A (3) READING AND COMPOSITION 3 Hrs. Lec.

Prerequisite: Satisfactory score on reading and writing placement tests and instructor recommendation. The standard course in freshman English. The course seeks to improve the student's ability to understand serious and complex prose and to improve the student's ability to write exposition that is thoughtful and clear.

ENG 1B (3) INTRODUCTION TO LITERATURE 3 Hrs. Lec.

Introduction to the study of poetry, fiction and drama, with further practice in writing. It is recommended that the student take Eng 1A before Eng 1B.

ENG 2 (3) INTRODUCTION TO LINGUISTICS 3 Hrs. Lec.

Prerequisite: Eng AB, Eng 51 or Eng 1A or consent of the instructor. Introduction to the various branches of linguistics: language classification, dialectal variation, psycholinguistics, sociolinguistics, semantics. Specific work on English sounds, grammar, and dialects, including comparisons of English with Spanish. Recommended for teachers, teacher aides, students of foreign languages, and anyone

interested in extending his knowledge of language. Suitable for English speaking and bilingual students.

ENG 3 (3) INTRODUCTION TO FILM HISTORY AND CRITICISM 2 Hrs. Lec. 2 Hrs. Lab.

The origin and development of movies as an entertainment industry, as a technological medium, and as an art form. Key films from different historical periods will be examined for their technological and artistic contributions to the art of film making. (Same as Hum 3, MPP 3)

ENG 7 (3) TECHNICAL AND REPORT WRITING 3 Hrs. Lec.

Prerequisite: Eng 51, Eng AB, Eng 1A, or permission of the instructor. Practical experience in writing various kinds of technical reports, descriptions, and evaluations; writing assignments fitted to the interests of individual students. Satisfies part of the graduation requirements in communications.

ENG 8 (3) ADVANCED COMPOSITION 3 Hrs. Lec.

Prerequisite: Eng 1A. Advanced expository prose, argumentation, description and the study of prose style. Offers an opportunity for learning to write through helping others write (tutoring).

ENG 9AB (3-3) CREATIVE WRITING 3 Hrs. Lec.

Prerequisite: Eng 1B or permission of the instructor. Study and application of the principles of literary construction, plus exercises in the writing of imaginative literature, including short story, poetry, drama, and essay.

ENG 10 (3) INTRODUCTION TO MOTION PICTURE PRODUCTION

3 Hrs. Lec. Plus production practice hours to be arranged (Same as MPP 10)

ENG 12 (3) RAPID READING AND STUDY SKILLS 3 Hrs. Lec. *1 Hr, Lab.

Designed to help adequate readers become superior readers. Recommended for college transfer students who wish to develop the efficient reading skills necessary for all types of college level reading. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 15 (3) AMERICAN LITERATURE 3 Hrs. Lec.

Prerequisite: Eng 1B is recommended or permission of the instructor. A study of the works of major American writers.

ENG 16A (3) WORLD LITERATURE

3 Hrs. Lec.

Prerequisite: Eng 1B is recommended. Study of selected literature of the Hebrews, Greeks, Romans, the Middle Ages, and the Renaissance. Emphasis on literature other than American and English.

ENG 16B (3) **WORLD LITERATURE** 3 Hrs. Lec.

Prerequisite: Eng 1B is recommended. Study of selected literature of Neoclassicism, Romanticism, Naturalism, Symbolism, and modern schools. Emphasis on literature other than American and English. May be taken before Eng 16A.

ENG 17A (3) SURVEY OF ENGLISH LITERATURE 3 Hrs. Lec.

Prerequisite: Eng 1B or permission of the instructor. Close study of works of major English writers up to the end of the 18th century, with consideration of the more important aspects of English literary history.

ENG 17B (3) SURVEY OF ENGLISH LITERATURE 3 Hrs. Lec.

Prerequisite: Same as for Eng 17A. Close study of works of major English writers of the 19th and 20th centuries. with consideration of the more important aspects of English literary history. May be taken before Eng 17A.

ENG 18ABCDEF (3-3-3-3-3-3) LITERATURE FOR PLEASURE 3 Hrs. Lec.

Prerequisite: Completion of Eng 56A or 50A, or the equivalent. A minimum 8th grade reading level is recommended. A general education course designed to encourage students to read for enjoyment and for an increased understanding of themselves and the world they live in. Students will read short stories, novels, plays, poetry and some nonfiction on certain themes, e.g., youth, love, horror, fantasy, the hero, the West. Oral participation will be emphasized and some writing will be required. Guest lecturers, films, and field trips will be included whenever possible. Course may be repeated for credit with different content.

ENG 20ABCDEF (3-3-3-3-3-3) STUDIES IN LITERATURE

3 Hrs. Lec.

Examination of representative literary works of a major author, period, genre, or theme; or comparative study of literature and another field, e.g., film, theater, art, music, politics, social or behavioral science. Topics such as Modern Poetry,

Modern Prose Fiction, Modern Drama, Classic Theater, Introduction to Shakespeare, Film and Literature, The Bible as Literature, Mythology and Folklore. May be repeated with different content.

ENG 25ABCDEF (3-3-3-3-3) INTRODUCTION TO SHAKESPEARE 3 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: A Nelson-Denny Reading Test score of 11.0 or above. A demonstration of how Shakespeare can be enjoyable and interesting, as well as informative. The biography of Shakespeare, the environment of Elizabethan England, and the theater in general will be explored briefly, followed by the television viewing and discussion of six fulllength, professional quality productions from the works of the Master.

ENG 30A (3) THE MEXICAN AMERICAN IN LITERATURE

3 Hrs. Lec.

Prerequisite: Eligibility for Eng 1A. Study of the contributions by Mexican Americans to all genres of literature. Course to be developed through the study of the Mexican American historical backgrounds, and by contrasting and comparing the works of Mexican Americans with their familiar Anglo American counterparts, as well as with the works of familiar Mexican authors. This course will concentrate on the cultural and literary heritage of the Mexican American. Conducted in English. (Same as Span 28A)

ENG 30B (3) THE MEXICAN AMERICAN IN LITERATURE

3 Hrs. Lec.

Prerequisite: Successful completion of Eng AB or Eng 1A. A continuation of Eng 30A with emphasis on contemporary Mexican American writers. Conducted in English. Eng 30B may be taken before Eng 30A. (Same as Span 28B)

ENG 36 (3) THE BIBLE AS LITERATURE 3 Hrs. Lec.

A study of the prose and poetry of the Bible.

ENG 40 (4) **BEGINNING ENGLISH AS A SECOND** LANGUAGE

4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Designated score on placement test. A beginning course in English designed for the student who has not had any formal English classes in the United States. The course will cover grammar and simple sentence writing. Capitalization and punctuation

will be emphasized through some beg ning composition writing in the lat part of the semester.

ENG 40A (2) **BEGINNING ENGLISH AS A SECO** LANGUAGE

2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: Designated score placement test or permission of instru tor. This course covers the first h semester's work of Eng 40 (4 units) a is offered for the convenience of nig students who cannot attend more th one night a week. This course w emphasize vocabulary building, conv sational skills and listening comprehe sion. This course, together with E 40B, is equivalent to Eng 40. Not oper students who have completed Eng 4

ENG 40B (2) **BEGINNING ENGLISH AS A SECO** LANGUAGE

2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: Eng 40A or permission instructor. This course covers second half semester's work of Eng 40 units) and is offered for the convenier of night students who cannot atte class more than one night per we Satisfactory completion of Eng 40A a 40B is the equivalent to Eng 40 a qualifies the student to enroll in Eng or Eng 41A. Not open to students w have completed Eng 40.

ENG 41 (4) INTERMEDIATE ENGLISH AS A **SECOND LANGUAGE**

4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Appropriate score placement test or satisfactory comp tion of Eng 40. Eng 41 is an intermedi course which takes the student fr simple present and past tense usage more complicated grammatistructures. Basic skills for simple co positions in English are also taught.

ENG 41A (2) INTERMEDIATE ENGLISH AS A SECOND LANGUAGE

2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Designated score placement test or satisfactory comp tion of Eng 40B. The course covers first half semester's work of Eng 4 units) and is offered for the convenie of night students who cannot attclass more than one night per week. 1 course, together with Eng 41B, equivalent to Eng 41. Not open students who have completed Eng.

ENG 41B (2) INTERMEDIATE ENGLISH AS A **SECOND LANGUAGE**

2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: Satisfactory completio Eng 41A. This course covers the sec half semester's work of Eng 41 (4 ur and is offered for the convenience of night students who cannot attend class more than one night per week. Satisfactory completion of Eng 41A and 41B is equivalent to Eng 41 and qualifies the student to enroll in Eng 42 or Eng 42A. Not open to students who have completed Eng 41.

ENG 42 (4) ADVANCED ENGLISH AS A SECOND LANGUAGE

4 Hrs. Lec. 1 Hr. Lab.

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Prerequisite: Eng 41 or Eng 41A and 41B or equivalent. Advanced composition, grammar, and reading are emphasized. Satisfactory completion of this course qualifies the student for enrollment in Eng 56. This course satisfies part of the requirement in communications.

ENG 42A (2) ADVANCED ENGLISH AS A SECOND LANGUAGE

2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisites: Designated score on placement test or satisfactory completion of Eng 41 or Eng 41B. The course covers the first half semester's work of Eng 42 (4 units) and is offered for the convenience of night students who cannot attend more than one night per week. This course, together with Eng. 42B, is equivalent to Eng 42. Not open to students who have completed Eng 42.

ENG 42B (2) ADVANCED ENGLISH AS A SECOND LANGUAGE

2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisites: Satisfactory completion of Eng 42A. This course covers the second half semester's work of Eng 42 (4 units) and is offered for the convenience of night students who cannot attend class more than one night per week. Satisfactory completion of Eng 42A and Eng 42B is the equivalent of Eng 42 and qualifies the student to enroll in Eng AB or Eng 51. Not open to students who have completed Eng 42.

ENG 43A (3) BEGINNING ORAL ENGLISH FOR BILINGUALS 3 Hrs. Lec.

Prerequisites: To be taken concurrently with Eng 40 or by permission of instructor. A conversational course designed for the beginning ESL student. The course will cover the fundamentals of the English sound system. Listening and speaking will be emphasized through basic dialogs to be learned, through simple stories to be listened to, and through questions to be answered orally.

ENG 43B (3) INTERMEDIATE ORAL ENGLISH FOR BILINGUALS

3 Hrs. Lec.

Prerequisites: To be taken concurrently with Eng 41 or by permission of instructor. A conversational course designed for the intermediate student. Students will utilize oral English by creating their own dialogs and presenting them, and by speaking on posters or other visual materials. Differences between the students' native language and English and how these differences affect the students' oral English will be discussed.

ENG 43C (3) **ADVANCED ORAL ENGLISH FOR BILINGUALS**

3 Hrs. Lec.

Prerequisites: To be taken concurrently with Eng 42 or by permission of instructor. An intensive course in oral American English for students who have learned English as a second language. It is intended for students who may read well and have a good grasp of grammar but who stil need more practice in manipulating oral structures. Satisifies part of the graduation requirement in communications.

ENG 45 (3) **BEGINNING VOCABULARY BUILDING AND SPELLING FOR ESL** 3 Hrs. Lec.

Prerequisites: This course may be taken concurrently with Eng 40 or by permission of the instructor. A beginning level of vocabulary will be offered. Some spelling techniques will be taught and vocabulary will be used both in oral and written sentences.

ENG 46 (3) INTERMEDIATE VOCABULARY **BUILDING AND SPELLING FOR ESL**

Prerequisites: Eng 41 concurrently or consent of instructor. The intermediate ESL student will work on roots and prefixes, idioms, spelling, pronunciation, parts of speech, irregular verbs, and the learning of new words. A lot of class practice will be given in oral and written use of new words and expressions.

ENG 47 (3) **VOCABULARY BUILDING FOR BILINGUALS**

3 Hrs. Lec.

Prerequisites: Eng 46, Eng 41, or by consent of instructor. The student will work on English-Spanish cognates, roots and prefixes, idioms, general reading vocabulary, subject matter (e.g., psychology, history) reading vocabulary, parts of speech, dictionary skills, word connotation and usage, and listening comprehension. The emphasis will be on writing and listening more than on oral work, and on independent vocabulary building as well as on group work.

ENG 49 (3) READING DEVELOPMENT FOR **BILINGUALS**

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Assignment by placement test and/or completion of Eng 43C and Eng 47. Course is designed to develop reading efficiency of bilingual students. It will include a thorough analysis of vocabulary. Individual interests and ability to read play a decided role in each student's progress. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 50A (3) READING DEVELOPMENT 3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Eligibility by placement test. A course for the student at the intermediate reading level needing intensive instruction in vocabulary and comprehension. Items covered will include phonics and word analysis, review of syllabication, dictionary skills, prefixes, suffixes, and individualized vocabulary and rate building. Follows in sequence from Eng 54B. Taught simultaneously with Eng 50B. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 50B (3) READING DEVELOPMENT 3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Eligibility by placement test. A course at the upper intermediate level designed to refine those skills designated in Eng 50A. Includes additional instruction in study skills, outlining, previewing, summarizing and critical reading. Taught simultaneously with Eng 50A. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 51 (3) THE COMMUNICATION PROCESS 3 Hrs. Lec.

Prerequisite: Assignment by placement tests or teacher recommendation. Designed to familiarize the student with everyday communication processes and to develop his ability to respond to them critically. Includes analysis of typical media (TV, radio, newspapers, magazines, and other popular literature) and participation in simulation games on matters of social concern. Offers practice in the use of the library and in oral and written communication, especially

in the writing of single and multiparagraph reports, essays and letters. This course (or Eng 1A) must be taken in partial fulfillment of the IVC graduation requirement in communications.

ENG 52AB (3-3) VOCABULARY BUILDING 3 Hrs. Lec.

A concentrated study of affixes, roots, word origins, language change, varieties of meaning, the dictionary, and vocabulary in the various subject areas.

ENG 53AL (1) INDIVIDUALIZED READING 2 Hrs. Lab.

This is a course in individualized instruction under the auspices and direction of a certificated instructor who diagnoses reading deficiencies and prescribes remediation. Individual learning modules are assigned for improving such things as: reading vocabulary, reading comprehension, and reading rate. The course is designed to assist students in any course(s) requiring reading skills. The 36 required hours will be set by arrangement with the student and must be undertaken in the Reading/Writing Lab.

ENG 54A (3) INTRODUCTORY DEVELOPMENTAL READING

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Assignment by placement test and recommendation of the instructor. Instruction in beginning reading for those students who have not yet mastered the basic skills of phonics and word analysis. Taught simultaneously with Eng 54B. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 54B (3) INTRODUCTORY DEVELOPMENTAL READING

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Assignment by placement test and recommendation of the instructor. A continuation of the basic reading skills presented in Eng 54A with additional work in phonics, comprehension, word analysis, and vocabulary building for intermediate level reading (Eng 50A). Taught simultaneously with Eng 54A. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 55AB (1-1) SPELLING

1 Hr Lec

Diagnosis of specific spelling problems and prescription of remedies; investigation of the basic spelling rules.

ENG 56A (3) WRITING FUNDAMENTALS 3 Hrs. Lec.

Prerequisite: Assignment by placement and instructor recommendation. Preparation for 56B. Intensive instruction in grammar and punctuation and the writing of short (75-100 word) paragraphs. Designed for the student needing to acquire basic writing skills and to overcome language transfer interference. Follows in sequence from Eng 42. Taught simultaneously with Eng. 56B. Concurrent enrollment in Eng 50A is strongly recommended.

ENG 56B (3) WRITING FUNDAMENTALS

3 Hrs. Lec.

Prerequisite: Assignment by placement tests and instructor recommendation. Preparation for Eng A or Eng 51. A review of grammar and punctuation and instruction in the writing of paragraphs and topic sentences. Designed for the student needing to review basic writing skills. The course follows in sequence from, and is taught simultaneously with, Eng 56A. Concurrent enrollment in Eng 50A is strongly recommended.

ENG 57 (1) LIBRARY RESOURCES

1 Hr. Lec.

Use of library facilities, especially the card catalog, reference books, and periodical indexes, as a basis for research in any field. Techniques of preparing and presenting a research paper are included. Work on an actual term paper is not required although students may use this course to assist them in writing a research (term) paper for other courses if they wish. Helpful to any individual from the community who wishes to use the library to keep up to date on the latest developments and to compile a bibliography in his area(s) of interest.

ENG 58AL (1) INDIVIDUALIZED WRITING 2 Hrs. Lab.

This is a course in individualized instruction under the auspices and direction of a certificated instructor who diagnoses writing deficiencies and prescribes remediation. Individual learning modules are assigned for improving such things as: grammar, usage, rhetorical skills and to eliminate language interference. The course is designed to assist students in any course(s) requiring writing skills. The 36 required hours will be set by arrangement with the student and must be undertaken in the Reading/Writing Lab.

ENG 60ABC (1-1-1) LANGUAGE LABORATORY

ENVIRONMENTAL SCIENCE

ENV SCI 5 (3) MAN AND HIS ENVIRONMENT 3 Hrs. Lec.

The study of natural resources vital iman's existence. Emphasis of composition of the physical environment and problems associated with contamination of air, water, and soil. (Samas Ag 5)

FIRE SCIENCE

FIRE SCI 50 (2) VOLUNTEER FIREFIGHTING PRACTICE

2 Hrs. Lec.

A course designed for volunteer fire fighters. This course is designed to provide all the basic operational skil needed by firemen in a volunteer service

FIRE SCI 70 (2) FIRE MANAGEMENT I 2 Hrs. Lec.

The fundamentals of officer leadershi and supervisory techniques. Introduce fire service personnel to the principles company supervision, personnel man agement, evaluation and training.

FIRE SCI 71 (2) FIRE MANAGEMENT II 2 Hrs. Lec.

Prerequisite: Fire Sci 70. This course is continuation of Fire Management I, an prepares fire service personnel in the principles of company supervision, personnel management, and evaluation are training techniques with a particular en phasis on methods of developing, utilizing instructional materials, and efficient teaching methodology.

FIRE SCI 72 (2) FIRE MANAGEMENT III 2 Hrs. Lec.

This course provides the specific managerial skills required of a fire compar officer or chief fire officer in a fire service unit. It includes methods and procedures of manpower management from routine through emergency condition and situations in the fire service unit.

FIRE SCI 73 (1) VOLUNTEER INSTRUCTOR TRAINING

1 Hr. Lec.

Designed for volunteer fire personn with a responsibility for training. En phasizes the teaching and evaluation manipulative skills employed by the first service.

FIRE SCI 81 (3) INTRODUCTION TO FIRE SCIENCE 3 Hrs. Lec.

Fire suppression organization; fire suppression equipment; characteristics and behavior of fire; fire hazard properties of ordinary materials, building design and construction; extinguishing agents; basic fire fighting tactics; public relations.

FIRE SCI 82 (3) **FIRE FIGHTING TACTICS AND STRATEGY**

3 Hrs. Lec.

Review of fire chemistry, equipment, and manpower; basic fire fighting tactics and strategy; methods of attack; preplanning fire problems.

FIRE SCI 83 (3) **FIRE HYDRAULICS**

3 Hrs. Lec.

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Prerequisite: Completion of Math 51 or satisfactory score on Mathematics Placement Test. Review of basic mathematics: hydraulic laws and formulas as applied to the fire service; application of formulas and mental calculation to hydraulic problems; water supply problem; underwriters' requirements for pumps.

FIRE SCI 84 (3) FIRE APPARATUS AND EQUIPMENT 3 Hrs. Lec.

Driving laws, driving technique, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, apparatus maintenance.

FIRE SCI 85 (3) **FIRE COMPANY ORGANIZATION** AND PROCEDURE

3 Hrs. Lec.

Review of fire department organization; fire company organization; the company officer; personnel administration; communications; fire equipment; maintenance: training: fire prevention: fire fighting company; fire fighting capability; records and reports.

FIRE SCI 86 (3) **RESCUE PRACTICES**

3 Hrs. Lec.

Rescue practices, the human body, emergency care of victims, childbirth, artificial respiration, toxic gases, chemicals and diseases, radioactive hazards, rescue problems, and techniques.

FIRE SCI 87 (3) **FUNDAMENTALS OF FIRE PREVENTION**

Prerequisites: Fire Sci 81 or employment with a fire protection agency. Fire prevention organization; inspection, surveying and mapping procedures; recognizing the hazard; engineering a solution; enforcing the solution; public re-

FIRE SCI 90 (2) PUMP OPERATION I

Prerequisite: Suggested completion of Fire Sci 83 or Fire Sci 84. A basic course for engineers in the fire fighting service which provides the background in general use and operation of pumping and related equipment.

FIRE SCI. 92 (2) **ARSON INVESTIGATION I**

2 Hrs. Lec.

Prerequisite: Present firefighter status. either paid or volunteer. This course is designed for the fire and police arson investigator to successfully carry out responsibilities in arson detection and investigation.

FIRE SCI 94 (2) FIRE COMMAND I

2 Hrs. Lec.

Prerequisite: Present firefighter status, either paid or volunteer. A course designed to provide Fire Company Officers with information and experience in command and control techniques used at the scene of an emergency. The course emphasizes decision making, the act of commanding, the authority or right to command, the personnel organization structure or area under an individual commander, and the pre-planning and training requirements for effective performance as an officer.

FIRE SCI 95ABCDE (1/2-1/2-1/2-1/2) OIL FIRE CONTROL SCHOOL I .2 Hrs. Lec. .8 Hrs. Lab.

This course provides students with general information, techniques and strategies in dealing with flammable liquids and gases. Students are provided with particular exercises in controlling and then in extinguishing flammable liquid and gas fires at selected burn sites under controlled supervision.

FRENCH

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the foreign language requirement in various majors. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the Foreign Language Department for further information.

The last year course taken by a student in the high school language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work. Students are strongly advised to see the instructor before enrolling.

Students who have recently studied French for three years in high school are recommended to take Fr 3 and Fr 10.

FR 1 (4) **ELEMENTARY FRENCH** 4 Hrs. Lec. 1 Hr. Lab.

An intensive beginning course stressing the basic skills of listening comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of French, Introduction to aspects of French culture and civilization. Students must plan for an additional hour of individual language laboratory by arrangement. Not open to students who have completed three years of high school French.

FR 1A (2) **ELEMENTARY FRENCH**

2 Hrs. Lec. 1/2 Hr. Lab.

This course is one-half the content of the regular Fr 1 course. Completion of Fr 1A and 1B will be the equivalent of Fr 1, and the total of 4 units. Students must plan for an additional one-half hour of individual language laboratory by arrange-

FR 1B (2) **ELEMENTARY FRENCH** 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Fr 1A. A continuation of Fr 1A. Students must plan for an additional one-half hour of individual language laboratory by arrangement.

FR 2 (4) **ELEMENTARY FRENCH** 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Fr 1 or placement by examination. Continues the development of all four language skills, emphasizing vocabulary building, increasing fluency and control of correct pronunciation. basic forms and structure. Students must plan for an additional hour of individual language laboratory by arrange-

FR 2A (2) **ELEMENTARY FRENCH** 2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: Fr 1B or placement by examination and consent of instructor. This course is one-half the content of the regular Fr 2 course. Completion of Fr 2A and 2B will be the equivalent of Fr 2, and the total of 4 units. Students must plan for an additional one-half hour of individual language laboratory by arrangement.

FR 2B (2) ELEMENTARY FRENCH 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Fr 2A. A continuation of Fr 2A. Students must plan for an additional one-half hour of individual language laboratory by arrangement.

FR 3 (4) INTERMEDIATE FRENCH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Fr 2 or placement by examination. An intermediate course giving intensive practice in speaking, understanding, reading and writing to further develop control of the sounds and basic structure of French. A thorough review of essential grammar. Reading in French of cultural material, short stories, plays, poetry or novels; guided compositions and oral practice. Students must plan for an additional hour of individual language laboratory by arrangement.

FR 4 (4) INTERMEDIATE FRENCH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Fr 3 or placement by examination. Continuation of intensive practice in speaking, understanding, reading and writing based on cultural and literary materials. Vocabulary and oral-written correspondence stressed; outside reading with oral and written reports. Students must plan for an additional hour of individual language laboratory by arrangement.

FR 5 (2) INTERMEDIATE FRENCH READING AND GRAMMAR REVIEW

1 Hr. Lec. 3 Hrs. Lab. to be arranged Prerequisite: Fr 2 or two years of high school French or consent of instructor. Intermediate French Reading and Grammar Review Lab: Independent and individualized study. SRA reading comprehension exercises, speed reading exercises, vocabulary development and research. Supplementary listening comprehension and pronunciation exercises on tape. Independent grammar review with self-checking quizzes.

FR 10 (3) INTERMEDIATE CONVERSATIONAL FRENCH 3 Hrs. Lec.

Prerequisites: Fr 2 or two years of French in high school or by examination and consent of instructor. (It is recommended that Fr 10 be taken concurrently with Fr 3.) Practical conversational skills are developed through listening exercises, directed conversations on assigned readings from newspaper and magazine articles, current topics, simple dialogues and plays. Emphasis on contemporary life in countries where French is spoken. Student must plan for an additional hour of individual language labor-

atory by arrangement.

FR 11 (3) INTERMEDIATE CONVERSATIONAL FRENCH

3 Hrs. Lec.

Prerequisite: Fr 3 or Fr 10 or three years of French in high school or by examination and consent of instructor. (It is recommended that Fr 11 be taken concurrently with Fr 4.) Continuation of Fr 10. Student must plan for an additional hour of individual language laboratory by arrangement.

FR 20A (2) FRENCH DRAMA—READING AND PERFORMANCE

1 Hr. Lec. 3 Hrs. Lab.

Prerequisite: Fr 2 or two years of high school French or consent of instructor. Oral reading and performance of French plays and skits. Includes vocabulary development and fluency in the spoken language. One selection of a one-act play or skit will be studied in-depth and performed for students of French.

FR 20B (2) FRENCH DRAMA—READING AND PERFORMANCE

1 Hr. Lec. 3 Hrs. Lab.

Prerequisites: Fr 20A or equivalent experience of Fr 2 and consent of instructor. Continuation of Fr 20A.

FR 40 (3) INTRODUCTION TO FRENCH CIVILIZATION AND CULTURE 3 Hrs. Lec.

An introduction to French civilization and culture. The major currents and characteristics of French culture and its development as expressed through the centuries in literature, art, philosophy, music, science, politics, history and life of the people from pre-history to the 20th century. Conducted in English. (Same as Hum 40)

FR 41 (3) INTRODUCTION TO FRENCH CIVILIZATION AND CULTURE BEYOND FRANCE

3 Hrs. Lec.

Cultural aspects and developments of French speaking people, their customs, traditions, literature, art, music, philosophy, government and economy. Brief studies of Canada, African countries, Tahiti, Haiti, Louisiana, Martinique, Guadalupe. Emphasis on the 20th century. Conducted in English. (Same as Hum 41)

FR 51 (3) FRENCH CULTURE, CUISINE AND CONVERSATION 3 Hrs. Lec.

An introduction to French culture, cuisine and conversation around the world. Discussion, demonstration and preparation of native French dishes. Includes introduction and practice in basic

phrases and vocabulary for travel as v as travel tips presented by lecture, gu speakers, and multi-media illustratio Field trip to French restaurant. Cl materials fee required for food and fi excursion.

FR 60ABC (1-1-1) LANGUAGE LABORATORY 2 Hrs. Lab.

(Same as Eng 60AC and Span 60AC

GEOGRAPHY

GEOG 1 (3) PHYSICAL GEOGRAPHY 3 Hrs. Lec.

An introduction to the physical charateristics of the earth. Topics include: mate, land forms, natural vegetationand the water and mineral resources the earth.

GEOG 2 (3) CULTURAL GEOGRAPHY 3 Hrs. Lec.

An introduction to the regions and of tures of the world. Emphasis on the cotemporary demographic, linguistic, ligious, and economic characteristics major regions in the world. May be take before Geog 1.

GEOG 3 (3) ECONOMIC GEOGRAPHY 3 Hrs. Lec.

The geography of commercial production as related climate, surface features, soils, lat supply and market areas, and the rou along which products move to consuling areas.

GEOLOGY

GEOL 1A (4) PHYSICAL GEOLOGY 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: One year of high sch science or permission of instructor. I structive and constructive work of wa ice and wind; earthquakes and earth's interior; volcanoes and geys rocks and rock formations; mineral sources, coral islands; origin and hist of the larger topographic features.

GEOL 10 (3) LIFE OF THE PAST: AN INTRODUCTION TO PALEONTOLOGY

3 Hrs. Lec.

Prerequisite: One year of high sch science. Biological principles of evtionary development and types of fos recorded in the rocks from ancient til to present. The age of invertebrates; age of dinosaurs and other reptiles; age of birds; the age of mammals. (Si as Zool 10) GEOL 11 (3)
GENERAL GEOLOGY: AN
INTRODUCTION TO GEOLOGY
3 Hrs. Lec.

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Prerequisite: One semester of high school science recommended. The basic elements of physical and historical geology. Study of rocks and fossils; their meaning and origins. Origin of the earth, volcanics, tectonics, earthquakes and geologic time. The building of mountains; erosion by wind and water. Glaciers and their activities, climatic changes through time, the changing land-scape. Emphasis on the geology of the Imperial Valley. A general education course closed to those who have credit in Geol 1A or Geol 1B.

GEOL 12 (3) INTRODUCTION TO HISTORICAL GEOLOGY 3 Hrs. Lec.

Prerequisite: One semester of high school science recommended. Origin and evolution of the earth, solar system and universe. Measurement of geologic time: the geologic periods. Typical fossils and organic evolution. Survey of paleogeography and paleoecology. Biological and geological principles in a historical perspective. Emphasis on past events in Imperial Valley. A general education course closed to those who have credit in Geol 1B, Historical Geology.

GEOL 12L (1) INTRODUCTION TO GEOLOGY LAB 3 Hrs. Lab.

Prerequisites: Geol 12 or concurrent registration in Geol 12. Origin and evolution of the earth, solar system and universe. Measurement of geologic time: the geologic periods. Typical fossils and organic evolution. Survey of paleogeography and paleoecology. Biological and geological principles in a historical perspective. Emphasis on past events in Imperial Valley. A general education course closed to those who have credit in Geol 1B.

GEOL 13 (3) GEOLOGY OF CALIFORNIA 3 Hrs. Lec.

Prerequisites: One semester of high school science or permission of instructor. A study of geologic history of California, the geology of its physiographic provinces and the origin and development of its scenic landscapes. Land forms, plate tectonics, earthquakes: their cause and prediction.

GEOL 14 (3) GENERAL PALEONTOLOGY, DINOSAURS, SABRETOOTHS AND MAN 3 Hrs. Lec.

Prerequisites: Geol 10, Geol 12, or Zool 1B. The history of life on earth from mi-

crobe to man as seen in the fossil record. The origins and evolution of invertebrates, vertebrates and plant life. Study of extinction and its causes. Emphasis on paleoecology and knowledge from the past applied to the present and future. Fossil fuels, their origin and distribution. A general education course intended for non-majors.

GERMAN

GER 1 (4) ELEMENTARY GERMAN 4 Hrs. Lec. 1 Hr. Lab.

Pronunciation, practice in speaking, introduction to reading and writing, basic grammar of the German language. The student must plan for an additional half hour of individual language laboratory.

GER 1A (2) ELEMENTARY GERMAN 2 Hrs. Lec. ½ Hr. Lab.

Beginning course of graded lessons acquainting the student with the basic structure and pronunciation through practice in speaking, reading and writing. This course is the first half of the first semester of Ger 1. Completion of Ger 1A and Ger 1B is the equivalent of Ger 1, a total of 4 units. Students must plan for an additional one-half hour of individual language laboratory by arrangement.

GER 1B (2) ELEMENTARY GERMAN 2 Hrs. Lec. ½ Hr. Lab.

Continuation of Ger 1A. Students must plan for one-half hour of individual language laboratory by arrangement.

GER 2 (4) ELEMENTARY GERMAN 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Ger 1 or by placement examination. An intensive, methodical presentation to develop facility in the skills of listening, comprehension, speaking, reading and writing with control of the basic structures in both oral and written form. German culture and civilization will be introduced. Students must plan for an additional one-half hour of individual language laboratory by arrangement.

GER 10 (3) CONVERSATIONAL GERMAN 3 Hrs. Lec.

Prerequisites: Ger 1 and 2 or by examination and consent of instructor. Conversational skills developed through oral drills, laboratory assignments and guided conversations on assigned topics. Practice in the spoken language; practical and diplomatic vocabulary, simple dialogues and plays. Meets German conversation requirements for enroll-

ment in upper division courses. Student must plan for an additional hour of individual language laboratory by arrangement.

GER 11 (3) CONVERSATIONAL GERMAN 3 Hrs. Lec.

Prerequisites: Ger 2 or Ger 10. This course is a continuation of Ger 10. Students must plan for two additional hours of individual language laboratory by arrangement.

GERONTOLOGY

GERONTOLOGY 1 (3) FUNDAMENTALS OF AGING 3 Hrs. Lec.

An introduction to aging including the physical, psychological and sociological changes in the aging process.

GERONTOLOGY 2 (3) SOCIOLOGY OF AGING

3 Hrs. Lec.

The interactions of group processes in the family and community which influence our society's attitudes toward the aging process. The institutional, environmental and cultural diversities of our society encountered in dealing with the aging.

GERONTOLOGY 3 (3) PSYCHOLOGY OF AGING

3 Hrs. Lec.

A developmental approach to the study of aging. An examination of behavior patterns in aging; changes in sensation, perception, and cognition processes; and the biological and environmental influence on behavior in older adults.

GERONTOLOGY 4 (3) BIOLOGY OF AGING

3 Hrs. Lec.

The course is designed to acquaint the student with the structural and functional changes that occur in the human body during the process of aging. Declines, losses and biomedical changes associated with the various systems of the body will be covered. Current biological theories of aging will be introduced. Diseases related to aging, with their related symptoms and treatments will be discussed. The psychological and social implications of biological changes, deficiencies and diseases will be stressed.

GERONTOLOGY 5 (3) AGING AND THE QUALITY OF LIFE 3 Hrs. Lec.

The course is designed to show that life for the aged is not just existence, but can be a vital, rewarding and fulfilling life that continues on into the later years that have been labeled as aged by our society.

GERONTOLOGY 11AB (2-2) GERONTOLOGY PRACTICUM 1 Hr. Lec. 6 Hrs. Lab.

Prerequisite: Geron 1 and one of the following which may be taken concurrently Geron 2, Geron 3 or Geron 4. Field experience enabling the student to apply theory in settings serving the older adult: senior centers, extended care facilities, governmental agencies, etc. Placement will be in the student's area of specialization.

GRAPHIC ARTS

G.A. 10 (2) GRAPHIC COMMUNICATION I 1 Hr. Lec. 3 Hrs. Lab.

Prerequisites: Art 22A or equivalent is recommended. A course designed to be a guide for the preparation of art and the mechanics for reproduction in the graphic arts field. The emphasis is on advertising and studio skills. This course will cover newspaper ads, brochure layout, pasteup, camera-ready art work, color separation and design coordination.

G.A. 11 (3) GRAPHIC COMMUNICATION II 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: G.A. 10. A continuation in the preparation of art and mechanics for reproduction in the graphic art field. Emphasis is on advertising and studio skills. An in-depth study of reproduction art in conjunction with offset printing. Student must plan for two additional hours by arrangement.

G.A. 12 (3) COMPOSITION, LAYOUT AND PASTE-UP

2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: G.A. 10. A course designed to cover basic methods of composition as it applies to the printing industry, including copysetting, proofreading and paste-up techniques. This course will cover effective uses of related material, techniques, creative thinking and innovative practices through the use of demonstrations, projects and laboratory experiences.

G.A. 20 (3) OFFSET PRINTING I 3 Hrs. Lec.

Study of the principles of offset presswork at the elementary level. Instruction in operation of offset presses under 11 x 17 inches. Students print simple offset work, color work and close-register. This course will also offer instruction in the theory of offset press trouble shooting, including standard trouble shooting procedures.

G.A. 21 (3) OFFSET PRINTING II 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: G.A. 20. An advanced course in lithographic presswork which allows the student to apply the lithographic theory and experience he has gained by operating equipment using sheets 4 x 6 in. up to 11 x 17 in. with emphasis in loading and setting feeds, conveyor mechanism, and guides, the proper preparation of stock and packing clamps, the mounting of plates and blankets, the setting of dampeners, ink rollers, fountain, and grippers. Pressure adjustments are stressed. Camera operations for the lithography process are introduced. Student must plan for two additional hours by arrangement.

G.A. 22 (3) PHOTOGRAPHY AND PLATEMAKING 2 Hrs. Lec. 2 Hrs. Lab.

Current techniques and equipment in photography and platemaking as final preparation before offset printing. Covers effective use of materials and techniques in darkroom, stripping and platemaking departments.

G.A. 23 (2) BINDERY, CUTTING AND DISTRIBUTION

1 Hr. Lec. 2 Hrs. Lab.

This course offers instruction in finishing operations on printed materials, training in the operation of folding machines, slitting, perforating, and trouble-shooting, training in the operation of hand and power cutters, special trimming, trimming of booklets and printed matter, cutting of blank stock, collating machine, stapling and stitching, holepunching, jogging and padding procedures.

G.A. 30 (3) GRAPHICS PLANT OPERATION AND MANAGEMENT FUNDAMENTALS 3 Hrs. Lec. 2 Hrs. Lab.

A course designed to acquaint the student with all phases of the small printing shop operation. The course emphasis will be production control, cost control, estimating and quoting, sales and general management techniques used in the day-to-day operation. Covers effective use of techniques, creative thinking, innovative practices through the use of projects, problem presentations and experiences directly related to the subject matter.

HEALTH AIDE

The Health Aide Program (one semester in length) prepares the student to receive a Certificate of Completion from the college in one of five different spe-

cialty areas and to be employed as a Aide in an agency according to the spe cialty area.

1. Hospital Nursing Assistant:

For employment in a general acute care hospital, a convales cent hospital or a rest home.

2. Home Health Aide:

For employment in a clinic, hospital or health department which as a home-health program.

3. Mental Health Aide:

For employment in a psychiatri hospital, day treatment center crisis team, drug or alcohol detox ification center.

Developmental Disability/Menta Retardation Aide:

For employment at a work trainin center, activity center, as a teach er's aide for Special Educatio classes, as a house parent at community living center or grou home, for respite care in client' homes within the community.

Patient Education Technician: For employment in a hospital of health agency in the audiovisus

health agency in the audiovisual department so as to assist wit patient education.

Students are admitted each semeste An admissions committee will review a applications. Early application (throug the college counseling center) is recom mended, since the number of student who can be admitted is limited. Not a specialty areas will be taught each se mester. Applicants should check wit the Counseling Division before makin application. Admission requirements in clude a health examination, writing of the college placement tests and orienta tion conference with a member of th Health Aide facility. Applicants with pr or education in nursing (ADN, LVN of Health Aide) may apply for credit by ex amination and/or advanced placemen This will be determined on an individua basis. A grade of C or better in each of the Program courses is required for suc cessful completion of the Health Aid Program. An overall 2.0 grade is re quired in order to receive a Certifical of Completion. Transportation to the area health agencies is the responsibility of the student.

CURRICULUM

HA 15A, HA 15B, HA 15C, HA 15D

or HA 15E Psych 5

Eng 51 P.E.

(or Eng 1A, if eligible) Phys. Ed., if required ...

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HA 15A (9) HOSPITAL NURSING ASSISTANT 3 Hrs. Lec. 18 Hrs. Lab.

Prerequisites: Enrollment in the Health Aide Program. A course for those intending to work as aides in a variety of health agencies - acute hospital, convalescent hospital, community health, mental health, developmentally disabled/mental retardation. Seven (7) weeks will be taught as a "core course" for all enrolled. Topics will include the role and functions of the health aide, legal and ethical responsibilities, communication skills, community resources for health care. Basic knowledge of nutrition, personal hygiene, safety, comfort and rest, growth and development will be studied. College laboratory periods will allow for practice in the procedural skills needed in these areas. Nine (9) weeks will consist of supervised laboratory experiences in various health agencies according to the student's area of chosen specialty. Weekly lecture-discussion classes will continue within the specialty areas. The final two (2) weeks will consist of "sharing" and review classes at the college for all enrolled. Students who complete the course will receive a standard Red Cross First Aid Certificate and will be certified in cardio pulmonary resuscitation (CPR).

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Hospital Nursing Assistant specialty area of the Health Aide course (9 weeks): Students will receive clinical laboratory experiences at Valley Convalescent Hospital, Calexico Hospital, Pioneers Memorial Hospital, El Centro Community Hospital (approximately 2 weeks each facility). Weekly lectures will continue within the specialty area. A student completing the Hospital Nursing Assistant portion will receive certification from the State of California as a Nurse Assistant.

HA 15B (9) COMMUNITY HEALTH AIDE 3 Hrs. Lec. 18 Hrs. Lab.

For general overview of course, see HA 15A, paragraph 1.

Community Health Aide specialty area of the Health Aide course (9 weeks): Students will receive clinical laboratory experiences in community health at local home health agencies. Weekly lectures will continue in the specialty area. Students will receive certification by the State of California as a Home Health Aide.

HA 15C (9) DEVELOPMENTAL DISABILITY/ MENTAL RETARDATION AIDE 3 Hrs. Lec. 18 Hrs. Lab.

For general overview of course, see HA 15A, paragraph 1.

Developmental Disability/Mental Retardation Aide specialty area of the Health Aide course (9 weeks): For those students planning to work in a variety of health agencies serving persons who are developmentally disabled and/or mentally retarded. Topics will include the definitions of developmental disabilities, diagnosis, causation, genetics, and team approach. Case management, family counseling, role of allied disciplines, and resources available will be discussed as they relate to the developmentally disabled and/or mentally retarded infant, pre-school child, elementary school age group, junior high and high school ages, and the adult. Each age grouping will be additionally reviewed according to the degree of the handicapping condition(s) from profound, severe, moderate to mild. Final sessions will review the role of the developmentally disabled/mentally retarded person, and the role of the health aide. Students will receive supervised clinical laboratory experiences at the Imperial Valley Center for Exceptional Children (2 weeks), Activity Center (2 weeks), and the Community Living and Respite Care Center (2 weeks). One week will be devoted to field trips to other area agencies.

HA 15D (9) MENTAL HEALTH AIDE 3 Hrs. Lec. 18 Hrs. Leb.

For general overview of course, see HA 15A, paragraph 1.

Mental Health Aide specialty area of the Health Aide course (9 weeks): Students will receive supervised clinical laboratory experience at the Imperial County Mental Health Services - In-Patient Hospital, Day Hospital, Mobile Team and Imperial Manor. Weekly lecture will continue within the specialty area.

HA 15E (9) PATIENT EDUCATION TECHNICIAN 3 Hrs. Lec. 18 Hrs. Lab.

For general overview of course, see HA 15A, paragraph 1.

Patient Education Technician specialty of the Health Aide course (9 weeks): Students will have classes in library technology including setting up and maintaining equipment such as video tape, motion picture projector and filmstrip machines. Audiovisual materials available in Imperial County as well as how/ what to obtain from other resource people/places will be discussed as will the organization, cataloging and distribution of AV materials. Included will be classes in disease conditions with emphasis on prevention and rehabilitation. Case management, family counseling, role of allied disciplines and resources available will be discussed as they relate to the illness being studied. Home visiting will be a part of the clinical experience. The development of creative skills
in presenting educational material to patients and the reinforcement and followup teaching done by licensed nurses will
be stressed. The ordering and categorizing of patient teaching supplies, office
skills (with emphasis on organization
and filing), communication skills will be
included.

Nursing - Continuing Education

Prospective students are advised to check with the college previous to each semester concerning continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. A materials and special services fee will be charged.

HA 38 (½-3) THIS YEAR'S ISSUES IN HEALTH ½-3 Hrs. Lec. (Same as RN 38, VN 38)

HA 40 (2) INTRAVENOUS THERAPY TECHNIQUE

1.8 Hrs. Lec. .3 Hr. Lab.

Prerequisite: HA 15 or equivalent and permission of instructor. (Same as RN 40, VN 40)

HEALTH EDUCATION

HE 1 (3) HEALTH EDUCATION

3 Hrs. Lec.

Fundamentals of healthful living designed to provide scientific health information, and promote desirable attitudes and practices. Includes the study of first aid and the relationship of alcohol, narcotics, and smoking to health, and the factors involved in family and community health and safety.

HE 2 (3) FIRST AID

3 Hrs. Lec.

The immediate and temporary care given in case of accident, illness and emergency childbirth. Course shall qualify students for the Standard or Advanced Red Cross First Aid Certificate.

HE 3 (2) HEALTH EDUCATION - MILITARY SERVICE

Prerequisite: The satisfactory completion of one year or more in the military service of the United States. The student wishing credit for military service must present his DD214 or equivalent supporting document to the Admissions Office and register for the credit. If the student signs up for the class for military credit and does not submit verification

of service, he will be dropped as a No-Show and will not receive credit. HE 3 does not count for units toward V.A. or full-time student. These are not contact hours. May be taken only once.

HEAVY MACHINERY

HM 35 (5) **HEAVY EQUIPMENT OPERATION** AND MAINTENANCE

3 Hrs. Lec. 6 Hrs. Lab.

The selection, operation, maintenance, and minor repair and adjustment of heavy equipment including hydraulic and pneumatic operations and safety, including dozer, backhoe, graders, skip loaders, cranes, etc. (Same as Ag 28)

HM 36 (5) **POWER TRANSMISSION SYSTEMS** 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Either Hm 35, Ag 33A, AT 51, or permission of instructor. The study and repair of power transmitting devices, such as standard transmissions, clutches, hydraulics, differentials, brakes, drvie train and tracks.

HISTORY

HIST 4A (3) HISTORY OF WESTERN CIVILIZATION 3 Hrs. Lec.

A survey of the major developments in

the Western heritage from the world of the ancient Greeks to sixteenth century Europe. Emphasis is on the foundation of Western culture, religion, politics and society.

HIST 4B (3) HISTORY OF WESTERN CIVILIZATION

3 Hrs. Lec.

A study of Western civilization from the sixteenth century to the present in which political, economic, social and intellectual changes and developments are stressed. May be taken before Hist 4A.

HIST 8A (3) HISTORY OF THE AMERICAS 3 Hrs. Lec.

A survey course in which the history of the United States, Canada and Latin America are considered as an integrated whole. Native American Indian cultures and colonial development through the era of independence are discussed. This course together with Hist 8B will satisfy graduation requirements in American Institutions.

HIST 8B (3) HISTORY OF THE AMERICAS 3 Hrs. Lec.

A survey course in which the history of the United States, Canada and Latin America are considered as an integrated whole. The area of study covers nineteenth and twentieth century development of the Americas. Consideration is given to the Constitution of the United States. This course together with Hist 8A will satisfy graduation requirements in American Institutions.

HIST 10 (3) HISTORY OF MODERN RUSSIA 3 Hrs. Lec.

A history of modern Russia from about 1900 to the present day, showing the historical background of Russian Marxism, special attention to the Russian revolution of 1917, the consolidation of the Stalinist dictatorship, foreign and domestic policies of the Soviet Union since the Revolution, and a discussion of the expansion of Russian communism and the challenge of Russia today.

HIST 17A (3) UNITED STATES HISTORY 3 Hrs. Lec.

A survey of the political and social development of the United States from the seventeenth century to 1865. This course and either Hist 17B or Poly Sci 2 will meet graduation requirements in American Institutions.

HIST 17B (3) UNITED STATES HISTORY 3 Hrs. Lec.

A survey of the political and social maturation of the United States from the end of the Civil War to the present. This course and either Hist 17A or Poly Sci 1 will meet graduation requirements in American Institutions. May be taken before Hist 17A.

HIST 30 (3) **MEXICO AND THE AMERICAN** SOUTHWEST

3 Hrs. Lec.

A one-semester survey of Mexico from the early nineteenth century, the independence movement, the Mexican American War and the development of Mexico and the American Southwest in the last century.

HIST 40 (3) **CIVILIZATION OF SPAIN AND PORTUGAL** 3 Hrs. Lec.

(Same as Span 40)

(Same as Span 41)

HIST 41 (3) **CIVILIZATION OF SPANISH AMERICA** AND BRAZIL 3 Hrs. Lec.

HONORS

HONORS 21 (1-2) **HUMANITIES DIVISION HONORS PROGRAM** 1-2 Hrs. Lec.

HONORS 22 (1-2) BUSINESS DIVISION HONORS PROGRAM 1-2 Hrs. Lec.

HONORS 23 (1-2) SOCIAL SCIENCE DIVISION HONO **PROGRAM** 1-2 Hrs. Lec.

HONORS 24 (1-2) BEHAVIORAL SCIENCE DIVISION **HONORS PROGRAM** 1-2 Hrs. Lec.

HONORS 25 (1-2) AUTOMOTIVE-AGRICULTURE TECHNOLOGY DIVISION HONORS **PROGRAM** 1-2 Hrs. Lec.

HONORS 26 (1-2) ENGLISH DIVISION HONORS PROGRAM 1-2 Hrs. Lec.

HONORS 27 (1-2) SCIENCE DIVISION HONORS **PROGRAM** 1-2 Hrs. Lec.

HONORS 28 (1-2) **MATHEMATICS-ENGINEERING DIVISION HONORS PROGRAM** 1-2 Hrs. Lec.

HONORS 29 (1-2) HEALTH, PHYSICAL EDUCATION AND RECREATION DIVISION **HONORS PROGRAM** 1-2 Hrs. Lec.

HONORS 21-29 COURSE DESCRIPTION

Prerequisites: Sophomore standing a admission to the program. Individ study with special guidance of instr tor. Recommended for honor student a major area offered by the division or students requesting study in depth i particular area. By request of stude and/or suggestion of instructor and proval of division chairperson. Interc ciplinary conference, with readings, o cussion, reports.

HONORS 30AB (1-6) FIELD STUDY Lec./Lab. by arrangement

Regular class instruction for honors s dents in major area of study offered b division. Interdisciplinary conferes with readings, discussion, and repo Travel to on-site study areas may be quired at the student's expense. Specurriculum may be requested by the students and/or instructors, but must be approved by the appropriate division chairperson and the Vice President for Academic Services.

HONORS 31 (1-7) NURSING DIVISION HONORS PROGRAM

Lec./Lab. by arrangement

Prerequisites: Admission to ADN, VN or HA Program and permission of Program Director. Intended for transfer students or students who will take only a portion of one of the Registered Nursing, Vocational Nursing or Health Aide courses.

HUMANITIES

HUM 1A (3) MAN AND THE ARTS

3 Hrs. Lec.

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Prerequisite: Hum 25 or eligibility for Eng 1A. A course in the unified humanities in which man is the center: "his problems, his wonderings, his confusion of experience, his experience with beauty." The course covers Greek, Roman and Medieval periods reflected in the arts. Conducted by lectures, films, field trips and discussions.

HUM 1B (3) MAN AND THE ARTS

3 Hrs. Lec.

Prerequisite: Hum 25 or eligibility for Eng 1A. A course in the unified humanities in which man is the center: "his problems, his wonderings, his confusion of experience, his experience with beauty." The course covers the period of the Renaissance through the 20th Century. Conducted by lectures, films, field trips and discussions.

HUM 3 (3) INTRODUCTION TO FILM HISTORY AND CRITICISM

2 Hrs. Lec. 2 Hrs. Lab. (Same as Eng 3, MPP 3)

HUM 17 (3) MEXICAN POPULAR FOLK ARTS 3 Hrs. Lec.

Mexican society as it is reflected in their arts, beliefs, customs, dances, fiestas, legends and songs. Class reports and discussion on the composite Mexican will be included. Conducted in English by lecture, multi-media, guest lecturers and field excursions to Mexicali. (Same as Span 17)

HUM 25 (3) THE HUMANITIES

3 Hrs. Lec.

An exploratory course introducing the student to the major disciplines in the humanities: art, architecture, literature, music, and the theatre. Examination of

humanistic values as they are reflected through the arts of world cultures. Includes guest lecturers, field excursions, films, and discussions.

HUM 26 (3) THE HUMANITIES 3 Hrs. Lec.

Prerequisites: Hum 25 with a grade of B or better or eligibility for Eng 1A. An advanced course dealing extensively in music, drama, visual arts and architecture. Humanistic and interdisciplinary approach to study man's reflection of himself in creative expression. Research paper or creative project required. Conducted by lecture, discussion, field trips, films, and guest lecturers.

HUM 40 (3) INTRODUCTION TO FRENCH CIVILIZATION AND CULTURE 3 Hrs. Lec.

(Same as Fr 40)

HUM 41 (3)
INTRODUCTION TO FRENCH
CIVILIZATION AND CULTURE
BEYOND FRANCE
3 Hrs. Lec.
(Same as Fr 41)

HUMAN RELATIONS

The Human Relations curriculum with an Associate of Arts degree has been designed to prepare students for employment as counselor aides and group counselor aides, vocational rehabilitation aides, teacher aides, eligibility workers, social service technicians and other pre-professional positions in the vocational "new careers" concepts in people-to-people services. These services are used by youth and adult correctional institutions, welfare and vocational rehabilitation agencies, mental hospitals, state employment centers, educational institutions and child care centers.

HR 8 (3) PERSONAL AND CAREER DEVELOPMENT

3 Hrs. Lec.

This course examines the process a student would follow in making a realistic career decision. Students planning to enter professions involving helping relationships such as education, social work, counseling, psychology, community work, and related areas, in addition to students who are undecided about their own future would profit from the course. Self-awareness will be appraised by testing and discussing interests, aptitudes, abilities, limitations, needs and life goals. Career awareness

will be facilitated by exploring the world of work in terms of occupational outlook, wages, training required, opportunities for advancement and life styles. Material testing fee payable during first week of instruction. (Same as Psych 8)

HR 9 (3) INTERVIEWING AND COUNSELING 3 Hrs. Lec.

A study of the theory, process and practice of interviewing and counseling in the community service situations. The course is designed to assist the student in gaining knowledge for the development of skills to deal with the interviewee in all kinds of situations. Theories of counseling and basic helping skills will be presented, demonstrated and practiced. (Same as Psych 9)

HR 10 (3) SMALL GROUP LEADERSHIP 3 Hrs. Lec.

Gaining of knowledge and skills in small group leadership leading to effectiveness in interpersonal relations and increased understanding of small group behavior, with emphasis on facilitating effective communication. (Same as Psych 10)

HR 11AB (3-3) PRACTICUM

1 Hr. Lec. 6 Hrs. Lab. field experience per week

Prerequisites: HR 9, Psych 1A, Sociol 1, or concurrent enrollment. A course designed to provide opportunity for the student in Human Relations to gain experiences under supervised conditions such as those involving mental health, child development, youth correction, welfare, homes for the neglected, homes for the aged and educational settings. Students will be supervised by credentialled instructional staff and professionally trained personnel. HR/Psych 11B offers an opportunity for the student either to continue with the HR/Psych 11A experience or to elect an assignment at another agency or location. HR/ Psych 11A shall not be taken concurrently with HR/Psych 11B. (Same as Psych 11AB) This course will be offered on a credit (Cr) basis only.

HR 13AB (3-3) THE PARAPROFESSIONAL IN COUNSELING

2 Hrs. Lec. 3 Hrs. Lab. (Same as Psych 13AB)

HR 61 (1) COLLEGE STUDY TECHNIQUES 1 Hr. Lec.

A course in the methods of efficient

study which is designed to assist the student in adjusting to the demands of college study and the improvement of learning skills. Includes a survey of the learning processes and the development of the techniques of listening, the use of texts, taking useful notes, outlining, scheduling, learning to concentrate and remember, the preparation for examinations, the use of the library, the management techniques and interpersonal communication skills.

HR 62ABCD (1-1-1-1) PERSONAL AND SOCIAL DEVELOPMENT 1 Hr. Lec.

A course utilizing group dynamics, designed to encourage and develop insight into collegiate and modern problems of adjustment, the utilization of personal potential, and the understanding of individual and group processes of development.

HR 65ABCD (1-1-1-1) THE STUDENT IN CONTEMPORARY COLLEGE AFFAIRS 1 Hr. Lec.

Designed to develop leadership qualities in students desiring to better understand the principles of publicity, finance, organization procedures, group dynamics and human relations. The course shall be offered on a credit basis only.

HR 66 (3) STUDENT PERSONNEL SERVICES IN HIGHER EDUCATION 3 Hrs. Lec.

Comprehensive study of organization, administration and evaluation of Student Personnel Services in higher education. Particular emphasis in services afforded in the community college.

INDIVIDUAL STUDIES

IND STU 40 or 80 (1-3) VOCATIONAL EDUCATION Hours by Arrangement

IND STU 41 or 81 (1-3) HUMANITIES Hours by Arrangement

IND STU 42 or 82 (1-3) ENGLISH Hours by Arrangement

IND STU 43 or 83 (1-3) NATURAL SCIENCE Hours by Arrangement

IND STU 44 or 84" (1-3) SOCIAL SCIENCE Hours by Arrangement IND STU 45 or 85 (1-3) BUSINESS Hours by Arrangement

IND STU 46 or 86 (1-3)
HEALTH, PHYSICAL EDUCATION
AND RECREATION
Hours by Arrangement

IND STU 47 or 87 (1-3) BEHAVIORAL SCIENCE Hours by Arrangement

IND STU 40-47 and 80-87 COURSE DESCRIPTION

Available to students on an individual basis. Course content, prerequisites and unit credit to be determined by the Division and the Vice President for Academic Services. Courses developed in relation to student interest and staff availability. Courses numbered 80-87 are non-transferable.

IND STU 48AB or 88AB (1-6) PHYSICALLY LIMITED PROGRAM 1-6 Hrs. Lec.-Lab. by arrangement

This course is designed to help prepare the physically-limited student for full or adaptive participation in community college activities: academic, social, vocational and environmental. Course number 88 is non-transferable.

IND STU 49ABCD (½-1 ½-1 ½-1) INDIVIDUAL STUDIES/NURSING LEARNING CENTER

1-2 Hrs. Lab. by arrangement

Prerequisite: Enrollment in a Nursing Education and Health Technologies Division Program. An individualized course of independent study by students in the programs offered by the Nursing Education and Health Technologies Division. Students will use materials in the Nursing Learning Center, and will have the assistance of the NLC instructor/tutors as needed. Eighteen (18) hours of independent study in the NLC per semester will earn ½ unit credit. Thirty-six (36) hours of independent study in the NLC per semester will earn 1 unit of credit.

IND STU 89ABCD (1-1-1-1) INDIVIDUAL STUDIES FOR THE LEARNING CENTER 2 Hrs. Lab.

An individualized course of study in any discipline using materials in the Learning Center. Non-transferable.

ITALIAN

ITAL 1A (2)
ELEMENTARY ITALIAN
2 Hrs. Lec. ½ Hr. Lab.
This course is designed to develop in the

student rudimentary abilities in the fo basic language skills: hearing, speakin reading and writing with emphasis of contemporary usage and grammatic emphasis on the present tense. The s quence of Ital 1A and 1B is equivalent a regular 4-unit 1-semester college lev Italian course.

ITAL 1B (2) ELEMENTARY ITALIAN 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Ital 1A. A continuation Ital 1A. Grammatical emphasis on It future and present perfect tense and It imperative mode. The sequence of It 1A and 1B is equivalent to a regular unit 1-semester college level Italia course.

JOURNALISM

JRN 1 (3) INTRODUCTION TO JOURNALISM 3 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Satisfactory performance in Eng 1A or recommendation of Englis instructor. Typing skills recommended introduction to techniques of compilir and writing general news and feature stories. Interview methods, page make up and functions of a newspaper are also included.

JRN 2ABC (4-4-4) ADVANCED NEWS AND FEATURE WRITING

3 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Jrn 1 or equivalent. Continuation of Jrn 1, with the addition editorial writing. Includes an introduction to the principles and techniques newspaper production.

JRN 3 (3) MASS COMMUNICATIONS 3 Hrs. Lec.

Survey of mass media; their interrel tionships, their problems and respons bilities. Relationship of the mass med to the individual.

JRN 4 (3) JOURNALISTIC ISSUES 3 Hrs. Lec.

Prerequisite: A course for advance journalism students. Study of issues concern to working journalists, such newsman's privilege, libel, gag rules, 1 amendment vs 6th amendment fre doms.

JRN 5 (3) INTRODUCTION TO PHOTOGRAPH 2 Hrs. Lec. 3 Hrs. Lab. (Same as Ph 5)

JRN 8 (3) **PUBLIC RELATIONS TECHNIQUES**

A study and analysis of projecting a public image by a business, public institution, governmental bureau. Planning of public relations campaigns for individual personalities, and for institutions and organizations, i.e., philanthropic, health, political, civic, commercial. Use of communications media (radio, television, newspapers, technical publications, inplant publications) to help student planning. Writing of press releases. Planning of press conferences. Preparing a press kit. Publicizing events. (Same as Bus 79)

LAW ENFORCEMENT

LAW ENF 21 (3) INTRODUCTION TO THE **ADMINISTRATION OF JUSTICE** 3 Hrs. Lec.

The history and philosophy of administration of justice in America; recapitulation of the system; identifying the various sub-systems; role expectations, and their interrelationships; theories of crime, punishment and rehabilitation; ehtics, education and training for professionalism in the system.

LAW ENF 22 (3) POLICE PATROL PROCEDURES 3 Hrs .Lec.

Techniques of patrol and observation; handling complaints and called-for services; public relations; techniques of field interrogation; officer's notebook procedures; essentials of police report writing; utilization of specialized equipment.

LAW ENF 23 (1) DEFENSIVE TACTICS 2 Hrs. Lab.

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A study of the art of self-defense through boxing, wrestling and fencing. Includes the art of weight lifting, control of crowds, mechanics of arrest, and the transportation of prisoners and mentally ill persons. Satisfies the district physical education activity requirement for one semester. (Same as PE 44)

LAW ENF 24 (3) TRAFFIC CONTROL AND VEHICLE CODE

3 Hrs. Lec.

Prerequisite: LE 21 or concurrent enrollment. The study of traffic control and vehicle code problems.

LAW ENF 26 (3) TRAFFIC ACCIDENT INVESTIGATION 3 Hrs. Lec.

Prerequisite: LE 21 or concurrent enroll-

ment. The study and procedures of traffic accident investigation.

LAW ENF 28 (3) WILDLIFE LAW ENFORCEMENT 3 Hrs. Lec.

The objective of this course is to acquire the knowledge and skill necessary for understanding the importance of Wildlife Law Enforcement in perpetuating and managing our fish and wildlife resources.

LAW ENF 29 (3) PRELIMINARY INVESTIGATION AND REPORTING

3 Hrs. Lec.

The organization and preparation of written communications and reports. Emphasis on practical aspects of report preparation required by law enforcement officers in the course of their duties including reporting on mock crime scenes.

LAW ENF 33 (3) CONCEPTS OF CRIMINAL LAW 3 Hrs. Lec.

Historical development of law and constitutional provisions; definitions; classifications of crime, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force.

LAW ENF 34 (3) CRIMINAL INVESTIGATION 3 Hrs. Lec.

Prerequisites: LE 21 or concurrent enrollment. Fundamentals of investigation; techniques of crime scene recording and search; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; follow-up and case preparation.

LAW ENF 35 (3) LEGAL ASPECTS OF EVIDENCE 3 Hrs. Lec.

Prerequisites: LE 21. Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility: judicial decisions interpreting individual rights and case studies.

LAW ENF 36 (3) PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM 3 Hrs. Lec.

Prerequisites: LE 21. An in-depth study of the role and responsibilities of each segment within the administration of the justice system: law enforcement; judicial; corrections. A past, present and future exposure to each sub-system procedure, from initial entry to final disposition, and the relationship each segment maintains with its system member.

LAW ENF 37 (3) JUVENILE CONTROL

3 Hrs. Lec.

Techniques of handling juvenile offenders and victims, prevention and repression of delinquency, diagnosis and referral, organization of community resources, juvenile law and juvenile procedure.

LAW ENF 38 (3) COMMUNITY RELATIONS

An in-depth exploration of the roles of the administration of justice practitioners and their agencies. Through interaction and study the student will become aware of the inter-relationships and role expectations among the various agencies and the public. Principal emphasis will be placed upon the professional image of the system of justice administration and the development of positive relationships between members of the system and the public.

LAW ENF 39 (3) ARREST AND FIREARMS

3 Hrs. Lec.

Prerequisites: Active reserve or full-time peace officer. Designed to satisfy the curriculum standards of the Commission on Peace Officer Standards and Training as required by Penal Code Section 832 for peace officers; includes laws of arrest, search and seizure, methods of arrest, discretionary decision making and where applicable, use of and carrying of firearms; mandatory for all peace officers who do not possess a basic certificate awarded by the Commission on Peace Officer Standards and Training.

LAW ENF 40 (1) ADVANCED OFFICERS COURSE 1 Hr. Lec.

Prerequisites: Permission of instructor. This course is designed to keep officers informed of new laws, new court decisions, changes in law enforcement policy, new concepts of police technology, advanced techniques, police-community relations, law enforcement ethics in maintaining police integrity and such other refresher training as may be necessary.

LAW ENF 41 (3) MASS SOCIOLOGY AND **COLLECTIVE BEHAVIOR** 3 Hrs. Lec.

(Same as Sociol 41)

LAW ENF 42 (1/2) **NONLETHAL CHEMICAL AGENTS** 1/2 Hr. Lec.

Prerequisite: Permission of the instructor. Introduction to nonlethal chemical agents - their use and purpose. Required by Chemical Agents Act of 1969. Eight hours lecture required for completion of this course.

LAW ENF 43 (3) RESERVE OFFICERS CLASS LEVEL II 3 Hrs. Lec.

Prerequisite: Level III or permission of instructor. A basic overview course in condensed version designed to prepare a student to be accepted by a law enforcement agency as a Level II reserve officer. Open to all students who are qualified as potential employees or reserves.

LAW ENF 44 (6) RESERVE OFFICERS CLASS LEVEL I 6 Hrs. Lec.

Prerequisite: Level II or permission of instructor. A basic overview course in condensed version designed to meet the POST classroom training requirements for Level I reserves. Twelve (12) additional lab hours to be arranged per semester.

LAW ENF 46 (3) THE MENTALLY ILL, ALCOHOLIC, DRUG ADDICT AND THE LAW 3 Hrs. Lec.

(Same as Psych 46)

LAW ENF 47 (1) FIELD TRAINING OFFICERS 1.33 Hrs. Lec.

Prerequisite: Student to be a Peace Officer or a Level I Reserve Officer. To teach the training officer the proper methods of instructing new recruits in the correct manner of performing their assigned tasks.

LAW ENF 48 (3) ADVANCED CRIMINAL LAW

3 Hrs. Lec.

Prerequisite: Full time peace officer or a Level I Reserve Officer. An in-depth study of the substantive laws commonly encountered by the municipal, county, or state police officer. The scope of the course includes misdemeanor and felony violations of the criminal statutes.

LEGAL ASSISTANT

LA 1 (3) INTRODUCTION TO LEGAL ASSISTANTS

3 Hrs. Lec.

Introductory course in formalizing the career of the legal assistant. An introduction to law, social forces and the law, comparison of the role of the legal assistant and the lawyer, and an introduction to legal terminology and bibliography. (Includes law office management and legal ethics.)

LA 2 (3) LIBRARY SCIENCE AND LEGAL WRITING

3 Hrs. Lec.

Prerequisite: LA 1. An introductory course in working in the legal library. Research and drafting and writing legal documents.

LA 3 (3) CIVIL PROCEDURES I 3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurrent enrollment. An introductory course in basic civil procedures, court systems, procedures as they apply to the principles of federal, state and civil laws.

LA 5 (3) TORT LAW

3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurrent enrollment. A study of the fundamental principles of the law of torts, an examination of the techniques of investigation involved in the lawyer's handling of tort claims. A study of the various forms of pleadings involved in tort claims.

LA 6 (3) CRIMINAL LAW 3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurrent enrollment. Structures, definitions, and the most frequently used sections of the Penal Code and other criminal statutes. Elements of crimes and defenses.

LA 7 (3) CORPORATIONS AND TAXATION 3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurrent enrollment. Principles of agency, principal and third parties, formation and management of California corporations, the rights and liabilities of stockholders, and corporate reorganization and dissolution, regulations of state and federal government relating to income, deductions, exemptions, depreciation, and capital gains and losses.

LA 8 (3) CIVIL DISCOVERY AND EVIDENCE 3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurrent enrollment. An examination of the rules of civil evidence and the admissibility of such evidence in court. Depositions, interrogations, admissions, notices to produce, and related rules of discovery and evidence.

LA 9 (3) FAMILY LAW

3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurrent enrollment. Law and procedure relative to marriage, community property, dissolution, parent and child relationships — including adoption.

LA 10 (3) BANKRUPTCY — CREDITOR/ DEBTOR

3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurent enrollment. A study of the bar ruptcy laws and procedures. A study creditors' rights, debtors' exemption and secured transactions.

LA 11 (3) REAL ESTATE LAW FOR LEGAL ASSISTANTS

3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurent enrollment. Legal background property ownership, with special reference to the law of California as it applit to community property. Conveyance deeds, trust deeds, mortgages, hom steads and estates, etc.

LA 12 (3) WILLS — TRUSTS — PROBATE 3 Hrs. Lec.

Prerequisites: LA 1 and LA 2 or concurent enrollment. A study of the fund mental principles of the law of wills at trusts including simple will and trusts including of the organization and jurisdiction of a California Probate Court including gift, inheritant and estate taxes, and practice in documentation.

LIBRARY TECHNICIAN

LT 51 (3) INTRODUCTION TO LIBRARY SERVICES 3 Hrs. Lec.

This course is an introduction to libra ies and their organization. It is design for students interested in employment school, public, or college libraries as brary technicians. Basic philosoph procedures, tools, and techniques flibrary routines are emphasized.

LT 52 (3) SUPPORT FOR TECHNICAL SERVICES

3 Hrs. Lec.

Prerequisites: LT 51 or consent of the i structor. An introduction to the vario semi-professional tasks in the technic processes phase of library operation

LT 53 (3) SUPPORT FOR PUBLIC SERVICES 3 Hrs. Lec.

Prerequisites: LT 51 or consent of the structor. Library public relations, circ lation control systems and location information through use of card ca logs, indexes, and basic referen books.

LT 54 (3) INTRODUCTION TO AUDIOVISUAL SERVICES

3 Hrs. Lec.

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Prerequisites: LT 51 or consent of the instructor. A survey course of the processes necessary for the utilization of audiovisual materials and equipment in the library situation.

LT 55 (3) CATALOGING AND CLASSIFYING 3 Hrs. Lec.

Prerequisites: LT 51 and/or LT 52 or consent of the instructor. A course devoted to the development of the skills and practical experiences needed by library technical assistants in support of the technical services aspect of a library operation. The student learns the theory and philosophy underlying the classification systems used in American libraries, classifies and catalogs book and non-book materials, and is exposed to a variety of work-experience situations where this knowledge is put to use.

MATHEMATICS

Whenever a mathematics class of any kind is a prerequisite, that mathematics class must be passed with a C or better grade.

MATH X (3) BEGINNING ALGEBRA

3 Hrs. Lec.

Prerequisite: Completion of Math 51 or satisfactory score on mathematics placement test. A one-semester course which covers the material generally included in a full year high school algebra course.

MATH Y (3) PLANE GEOMETRY 3 Hrs. Lec.

Prerequisite: Completion of Math 51 or satisfactory score on mathematics placement test. Covers the same material included in the full year of plane

geometry in high school.

MATH A (3) INTERMEDIATE ALGEBRA

3 Hrs. Lec.

Prerequisites: Math X and Y. This onesemester course takes the place of a strong second-year algebra course studied for the full year in high school. Included will be a development of real number systems, radicals and exponents, quadratic equations, binomial expansion, arithmetics and geometric progressions, logarithms, conics and the introduction to determinants.

MATH C (3) PLANE TRIGONOMETRY

3 Hrs. Lec.

Prerequisite: Math A or its equivalent. Special emphasis is placed on trigonometric analysis, applications, solving trigonometric equations including some with inverse functions, and graphing. Open to all students who have credit for high school trigonometry as well as for those who have not.

SPECIAL NOTE: Mathematics courses 51, X, Y, A and C are treated by some universities and state colleges as high school subjects. It is the responsibility of the student to check the catalog of that institution to which he expects to transfer to identify deficiencies which must be removed or to plan the sequence of courses which must be completed.

MATH 2 (5) ADVANCED ALGEBRA AND TRIGONOMETRY

5 Hrs. Lec.

Prerequisite: Math A or equivalent. This is a course intended for students who need a thorough foundation before attempting calculus. Included will be the study of the real number system; functions with special emphasis on exponential, logarithmic and trigonometric functions; the complex numbers; theory of equations; systems of equations; permutations, combinations, the binomial theorem, probability.

MATH 3A (5) ANALYTIC GEOMETRY AND CALCULUS

5 Hrs. Lec.

Prerequisite: Math 2 or equivalent. Includes the study of inequalities, limits and continuity, differentiation of algebraic and transcendental functions, definite integrals, applications, parametric equations, arc length and some review of conics.

MATH 3B (5) ANALYTIC GEOMETRY AND CALCULUS

5 Hrs. Lec.

Prerequisite: Math 3A. Topics include Polar coordinates, vectors in a plane, formulas and methods of integration, applications, solid analytic geometry, vectors in three dimensions and elements of the infinite series.

MATH 4 (4) CALCULUS AND DIFFERENTIAL EQUATIONS

5 Hrs. Lec.

Prerequisite: Math 3B. Partial differentiation, multiple integration, ordinary differential equations, applications, and elements of linear algebra.

MATH 6 (3) LINEAR ALGEBRA

3 Hrs. Lec.

Prerequisites: Math 3A and Math 3B with a grade of C or better. The course covers systems of linear equations, matrices and determinants, matrix algebra, eigen values, vector spaces, and linear transformations. Physical applications will be considered when appropriate.

MATH 10 (3) MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS

3 Hrs. Lec.

Prerequisites: Math X and Math Y, or the equivalent, or permission of instructor. Recommended for students who are working towards a teaching credential in elementary education. Sets and relations, functions, the development of the number system from the natural numbers, including the whole numbers, the integers, the rational numbers, and the real numbers.

MATH 12 (3) ELEMENTARY STATISTICS 3 Hrs. Lec.

Prerequisite: Math A or the equivalent. Graphical representation of statistical data, calculations and uses of various averages, measures of variability, elementary probability and the normal curve, sampling and estimation. (Same as Bus 26/Psych 12)

MATH 17 (3) MATHEMATICS FOR BUSINESS ANALYSIS

3 Hrs. Lec.

Prerequisites: Math A or the equivalent. To prepare for upper division courses in business. To provide some understanding of ideas from modern mathematics which are so important in this computer age. Topics included are logic, sets, counting, probability, vectors and matrices, mathematics of finance, linear programming, and calculus with applications. (Same as Bus 9)

MATH 18 (3) INTRODUCTION TO MATHEMATICS 3 Hrs. Lec.

Prerequisites: Math X and Y or equivalent. Topics from logic, modern algebra and analysis designed to give the student an introduction to the structure of mathematical theories and their applications. Includes course work in the theory of the structure of arithmetic and algebra of the real number system. Not intended for mathematics majors.

MATH 47 (3) PROGRAMMING IN FORTRAN 3 Hrs. Lec.

(Same as Bus 55)

MATH 50 (3) SHOP MATHEMATICS 3 Hrs. Lec. 2 Hrs. Lab.

A basic course in mathematics designed to meet the needs of students enrolled in the following vocational programs: automotive technology, welding, agricultural engineering, and physically limited. The course will cover applied mathematics for the shop student, factoring, fractions, measuring devices, basic geometry, measurement of areas and volumes, board measure, metric measurement. Satisfies the Imperial Valley College mathematics competency requirement as demonstrated by appropriate examination and is not open to students who have completed Math 51. (Same as Ag 50, Auto Tech 50, PL 50 and Weld 50)

MATH 51 (3) BASIC MATHEMATICS

3 Hrs. Lec.

Brief review of arithmetic including fractions, decimals, per cent, square root, and an introduction to algebra. This course is not open to students having satisfactory scores on mathematics placement tests.

MATH 52 (1) THE METRIC SYSTEM

1 Hr. Lec.

A brief introduction to the history of the metric system. Advantages and popularity of the International System of Units (SI). Metric units include those for length, area, volume, capacity, weight, temperature, and others. Conversions to and from the metric system are presented.

MOTION PICTURE PRODUCTION

MPP 3 (3) INTRODUCTION TO FILM HISTORY AND CRITICISM

2 Hrs. Lec. 2 Hrs. Lab. (Same as Eng 3, Hum 3)

MPP 10 (3) INTRODUCTION TO MOTION PICTURE PRODUCTION

3 Hrs. Lec. Plus production practice hours to be arranged Study of the basic elements of the film-

making process in 8mm, including scripting, shooting and editing. The college will provide the necessary equipment. Students supply materials. (Same as Eng 10)

MPP 11 (3) INTERMEDIATE MOTION PICTURE **PRODUCTION**

3 Hrs. Lec.

Continued work in the 8mm medium. Practice in the skills of continuity development and of sound recording on film. Study of the aesthetics of the film medium, including the effects of sound and dynamic editing upon the viewer. Students supply materials.

MPP 12 (3) **ADVANCED MOTION PICTURE PRODUCTION**

3 Hrs. Lec.

Prerequisite: MPP 11 or equivalent. An advanced course covering the writing, organization and production of a sound super 8 motion picture. The students will receive practice in production crew organization and cooperation. Each student crew will produce a five to 10minute motion picture. Students supply materials.

MPP 13 (1) TV STATION OBSERVATION, **OPERATION AND MANAGEMENT!** 2 Hrs. Lab.

Prerequisite: Completion of MPP 10, enrollment in MPP 11, or its completion and permission of instructor. The student shall observe the various activities and departments at a television station. He shall become acquainted with the function of the various departments, their relationship to each other and the skills and training required to perform each major job and craft.

MUSIC

MUS 7 (3) INTRODUCTION TO MUSIC **FOUNDATIONS**

3 Hrs. Lec.

An introduction to basic concepts of music. The development of the skills and knowledge needed to read music, to hear music, and to use some instrument (including the voice) with skill.

MUS 8A (2) **BEGINNING MUSICIANSHIP** 2 Hrs. Lec.

Prerequisite: Mus 7 or approval of instructor. Required of all music majors. A course designed to present basic skills and theory of music for persons interested in a background for appreciation of or further studies in music. Skills to be studied and developed are sight-singing, ear-training, keyboard harmony and basic piano skills.

MUS 8B (2) **BEGINNING MUSICIANSHIP**

2 Hrs. Lec.

Prerequisite: Mus 8A. Continuation of Mus 8A.

MUS 8C (2) INTERMEDIATE MUSICIANSHIP 2 Hrs. Lec.

Prerequisite: Mus 8B. A continuation of

Mus 8A and 8B to increase skills in sigl singing, ear-training, and keyboard ha mony.

MUS 8D (2) INTERMEDIATE MUSICIANSHIP 2 Hrs. Lec.

Prerequisite: Mus 8C. A continuation Mus 8C.

MUS 9A (3) **BEGINNING HARMONY** 3 Hrs. Lec.

Prerequisite: Mus 7 or Mus 8A conce rently or consent of the instructor. Sign singing, dictation and keyboard himony. Traditional diatonic harmon four-voice writing, analysis.

MUS 9B (3) **BEGINNING HARMONY** 3 Hrs. Lec.

Prerequisite: Mus 9A. A continuation Mus 9A.

MUS 9C (3) INTERMEDIATE HARMONY 3 Hrs. Lec.

Prerequisite: Mus 9B. A comprehensi study of the theory of music to inclu skills and creative experiences in trational harmony. An introduction to 20 century harmonic and melodic system

MUS 9D (3) INTERMEDIATE HARMONY 3 Hrs. Lec.

Prerequisite: Mus 9C. A continuation Mus 9C.

MUS 10A (1) **BEGINNING GROUP PIANO I** 1 Hr. Lec. 2 Hrs. Lab.

A course structured to correlate the musical skills, techniques and und standings which are basic to comp hensive keyboard musicianship at t early level of study.

MUS 10B (1) **BEGINNING GROUP PIANO II** 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 10A. A continuation Mus 10A.

MUS 11A (1) INTERMEDIATE GROUP PIANO I 1 Hr. Lec. 2 Hrs. Lab.

Prerequisites: Mus 10A and 10B or eq valent. A course structured for those s dents who have attained the perf mance skill competencies required Beginning Group Piano.

MUS 11B (1) INTERMEDIATE GROUP PIANO II 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 11A. A continuation Mus 11A.

MUS 12 (1) BEGINNING CLASS GUITAR 1 Hr. Lec. 2 Hrs. Lab.

A basic course on how to accompany with the guitar. Stress will be placed on tuning, chording, different types of strums and elementary transposition.

MUS 13 (1) INTERMEDIATE CLASS GUITAR 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 12 or consent of instructor. A continuation of Mus 12 with the following additions: 1. Reading music (standard musical notation); 2. A thorough presentation of bar chords including sevenths, ninths, diminished, augmented and various altered chords; 3. Advanced picking techniques.

MUS 15A (1) BEGINNING CLASS VOICE 1 Hr. Lec. 2 Hrs. Lab.

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The student receives guidance in the performance and appreciation of the various types of solo songs while acquiring the facilities for good vocal technique. Principles are applied through group and individual singing.

MUS 15B (1) BEGINNING CLASS VOICE 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 15A or its equivalent. A continuation of Mus 15A.

MUS 16 (1) INTERMEDIATE CLASS VOICE 1 Hr. Lec. 2 Hrs. Lab.

Prerequisites: Mus 15A and Mus 15B or their equivalent. A continuation of Mus 15B.

MUS 17ABCDEF (2-2-2-2-2) CHAMBER SINGERS 2 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Mus 15A or permission of the instructor. A performance organization presenting music of all styles sacred and secular, a cappella and accompanied. A minimum of six outside performances required each semester.

MUS 18ABCDEF (2-2-2-2-2) CHAMBER ORCHESTRA 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Permission of instructor. A performance organization specializing in literature for a small orchestra. Performances in local communities and on campus are required. Field trips to other musical events will be included to help performers develop efficient listening and evaluating practices. Solo and ensemble rehearsals and performances are included.

MUS 19ABCDEF (2-2-2-2-2) INSTRUMENTAL ENSEMBLE 2 Hrs. Lec. 1 Hr. Lab.

A performance organization specializing in literature for string, brass, woodwind and percussion ensembles, or any combination thereof. Designed for musicians who wish to explore, rehearse, and perform literature of all styles and periods.

MUS 20A (3) HISTORY AND LITERATURE OF MUSIC

3 Hrs. Lec.

The historical development of music with a study of various types of music from stylistic periods as a medium of cultural development. Intended as a background toward further studies in music for the music major and persons interested in a thorough background for enjoying music.

MUS 20B (3) HISTORY AND LITERATURE OF MUSIC

3 Hrs. Lec.

A continuation of Mus 20A.

MUS 21ABCD (1-1-1-1) BRASS, WOODWIND AND PERCUSSION METHODS

1 Hr. Lec. 2 Hrs. Lab.

Depth study and performance of literature for brass, woodwind, string and percussion instruments.

MUS 22A (2) INTRODUCTION TO PRINCIPLES AND PRACTICES OF CONDUCTING 2 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Permission of instructor or Mus 7 or Mus 8A and 9A. Techniques of instrumental and vocal conducting. Preparation — rehearsal and performance procedures for the conductor.

MUS 22B (2) CONDUCTING PRINCIPLES AND PRACTICES

2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Mus 22A. Techniques involved in standard conducting problems. Preparation — rehearsal and procedural problems encountered in conducting music.

MUS 25ABCDEF (2-2-2-2-2) STAGE BAND

2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Mus 21A-D or audition and permission of instructor. A performance ensemble specializing in the literature of the stage and jazz band traditions. Students will be provided ensemble experiences necessary for developing and refining improvisation techniques and performance practices appropriate to jazz, rock, blues and swing music traditions.

MUS 26ABCD (1-1-1-1) REHEARSAL AND PERFORMANCE 3 Hrs. Lab.

Prerequisite: Permission of the instructor. Enrollment contingent upon participation in campus major musical production. Maximum credit, 1 unit per semester for four semesters. Hours to be arranged.

MUS 27ABCDEF (2-2-2-2-2) CONCERT BAND

2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Music 21A-D or audition and permission of instructor. A performance organization specializing in literature for the wind band. Students will be afforded the opportunity to develop the musical skills and understanding necessary for the highest levels of expressive ensemble performance. Scheduled public performances are a part of the course obligations.

MUS 28ABCDEF (2-2-2-2-2) COLLEGE-COMMUNITY CHORUS 2 Hrs. Lec. 1 Hr. Lab.

Open to all students who have an interest in learning to sing and who enjoy music. Breath control, tone placement, articulation and enunciation. Rehearsal, performance and study of choral literature. Introduction to music theory as a means of learning to read music rather than learning by rote.

MUS 29ABCDEF (2-2-2-2-2) ESTUDIANTINA

2 Hrs. Lec. 1 Hr. Lab.

Open to all students, particularly those of Mexican background and culture who wish to perform music stemming from the tradition of "tunas," developed during the Renaissance in Spain's large and influential universities. For singers and/or instrumentalists playing accordion, castanets, guitar, mandolin, string bass, tambourine.

MUS 30 (3) INTRODUCTION TO MUSIC LITERATURE AND LISTENING 3 Hrs. Lec.

An introduction to music literature with emphasis on the listening experience. Students study the expressive materials of music and the major forms of music literature. Emphasis placed on the skills and understanding necessary for lifelong music listening experiences.

MUS 31 (3) INTRODUCTION TO TWENTIETHCENTURY MUSIC 3 Hrs. Lec.

An introduction to Twentieth-Century music exploring its nineteenth-century heritages, the first attempts to utilize unusual musical materials, the shift in musical philosophy as composers turned away from the nineteenth-century concept of music as an expression of subjective will and moral force to more objective functions, the invention of new instruments, and unusual ways of playing ordinary instruments.

MUS 32ABCD (1-1-1-1) APPLIED MUSIC

1 Hr. Lec. .5 Hr. Lab. to be arranged Prerequisites: Declared music major, regularly enrolled in the College and be currently enrolled in, or have completed, three units in music courses numbered 8A through 9D. A course designed to provide students with a concentrated sequence of private instruction in music within a particular performing medium. One section meeting per week on campus, in addition to private instruction. As required conditions, the student must: 1) Secure a teacher approved by the College. 2) Take a minimum of one 30 minute lesson per week. 3) Meet one hour of class per week on campus for performance as scheduled and turn in weekly lesson attendance form.

MUS 63ABCD (½-½-½-½) PEP BAND 2 Hrs. Lab.

This course will provide music students with an understanding of the ways music fulfills symbolic and ceremonial needs of society together with procedures and processes appropriate to maintaining music organizations focused upon meeting these needs.

MUS 64 (2) COLLEGE-COMMUNITY BAND 2 Hrs. Lec. 1 Hr. Lab.

A performance organization specializing in a wide range of literature for the wind band. The primary objective will be to provide the continuing music performing experiences needed by community adults, music educators and advanced high school students.

NATURAL SCIENCE

NAT SCI 51 (3) SURVEY OF THE EARTH SCIENCES 3 Hrs. Lec.

A junior college general education course to acquaint the student with some principles of the earth sciences including sections on astronomy, meteorology, oceanography, geology and physical geography. Not open to students with credit in Geog 1, Geol 2, Geol 1A or Astron 1.

NURSING - ASSOCIATE DEGREE

The Associate Degree Nurse Program (four semesters in length) prepares the student to receive the Associate of Science degree from the College and be eligible to write the examination given by the California Board of Registered Nursing to obtain licensure as a registered nurse. The program, which is also accredited by the National League for Nurs-

ing, prepares men and women to give direct nursing care to patients in hospitals, clinics, and similar community health-care agencies. Courses in general education and nursing are taken at the college campus. Nursing laboratory experiences are offered at selected area hospitals and other health agencies under the guidance of nursing faculty members. Transportation to these agencies is the responsibility of the student.

Students are admitted once a year in September. A Nursing Admissions Committee will review all applications. Early application (previous to February 1) is recommended, since the number of students who can be admitted is limited. Applicants are accepted according to the date that application is complete. Admission requirements include high school graduation (or its equivalent), a year of high school chemistry and biology (or their college equivalent), completion of English 1A and Psychology 1A in college, completion of Math 51 (as determined by college placement tests), physical and dental examinations (including specified immunizations). Applicants with prior education in nursing (R.N., V.N. or Health Aide) may apply for credit by examination and/or advanced placement. This will be determined on an individual basis.

For continuation in and successful completion of the program, a grade of C or better is required in each of the Board of Registered Nursing required coursesnursing, anatomy, physiology, microbiology, sociology, English, communication elective and the two psychology courses. An overall 2.20 grade point average (C=2.00) must be maintained in order to enroll in each succeeding semester of the program. The college graduation requirements in health education are waived for A.D.N. students. Required courses in microbiology, anatomy, and physiology taken more than 5 years previous to enrollment and required courses in sociology and psychology taken more than 10 years previous to enrollment are to be repeated. The nursing faculty reserves the right to recommend that a student be asked to withdraw from the nursing program at any time if academic, clinical, health or personal standards are not maintained.

CURRICULUM First Year

	Units 1st S.	Units 2nd S.
ADN 1-2	Assoc. Degree Nsg 8	8
*Anat 10	Anat-Physiology5	
Soc 1	Princ. of Sociology 3	
	Phys. Ed., if required 1	1
Bio 21	Gen. Microbiology	4
"Psych 35	Developmental Psych:	
,	Conception to Death	3
	16-17	15-16

Second Year

***ADN 3-4	Assoc. Deg. Nsg 11
ADN 5A	Dev. of Contem. Nsg1
ADN 5B	Nsg. Trends & Oppor.
	Phys. Ed., if required 1
	Learning Skills Elect.
	(Communication) 3
	Humanities Elective
""Soc Sci 52	Intro. to Amer. Govt

*Must be successfully completed before regist tion of ADN 2. Anatomy 8 and Human Phy ology 1 may be substituted. If student elects do this, these two courses must be comple before entering the Associate Degree Nurs Program.

15-16

"Psych 20 may be substituted.

***First year courses must be completed bef registration of ADN 3.

****Students expecting to transfer to a State ser college are advised to take 6 units of "Americ Institutions" electives instead.

ADN 1 (8) ASSOCIATE DEGREE NURSING 4 Hrs. Lec. 12 Hrs. Lab.

Prerequisite: Admission to ADN President of ADN President gram. Introduction to nursing includi role and functions of the nurse in hea and illness. Theory and integrated cli cal experiences in basic nursing prin ples and measures which meet ba needs common to individuals of all ag from infancy to senescence. Princip of growth and development and men health concepts introduced. Personal development, understanding of self a therapeutic nursing roles are studie Community resources for health ca legal, cultural, social, ethical respon bilities of the nurse, communicati skills, pharmacology, nutrition in hea and disease are introduced and then tegrated throughout nursing program

ADN 2 (8) ASSOCIATE DEGREE NURSING 4 Hrs. Lec. 12 Hrs. Lab.

Prerequisite: ADN 1. Using the concep of growth and development, physiolocal and psychological responses to tra ma and disease are studied as are t common health problems encounter by individuals of all ages. Special nee of individuals before, during and af surgery included. Interrelatedness emotions and organic disease int duced. Experiences concurrent in 1 hospitals and other community age cies. Experience in participating w the interdisciplinary psychiatric ter with emphasis on the role of the nurse interacting with individuals or grou with mental health problems.

ADN 3 (11) ASSOCIATE DEGREE NURSING 5 Hrs. Lec. 18 Hrs. Lab.

Prerequisite: ADN 2. ADN 5A taken or currently. Using the nursing proceand knowledge and principles from the contract of the c

natural and behavioral sciences, attitudes, skills and the caring role are developed in meeting needs of the family during the maternal cycle. Emphasis is on the normal cycle, with consideration to common complications. Emphasis also placed on the ill, abused and neglected child, and on adults with problems of sexuality. Mental health concepts stressed. Clinical experiences provided in hospital and community agencies. Experience through limited home visits to an expectant family also provided.

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ADN 4 (11) ASSOCIATE DEGREE NURSING 5 Hrs. Lec. 18 Hrs. Lab.

Prerequisite: ADN 3. ADN 5B taken concurrently. Using scientific, psychosocial, and nursing principles, attitudes and skills are developed to plan, implement, and evaluate comprehensive nursing care. Common and complex health problems interfering with the needs of adults and children are studied. Special consideration is given to aging and the aged, and to cultural/ethnic and sexual aspects of care. Clinical experiences in the acute and long term hospitals are concurrent, and opportunity is given to participate in leadership roles and group nursing management.

ADN 5A (1) DEVELOPMENT OF CONTEMPORARY NURSING

1 Hr. Lec. Prerequisite: ADN 2. ADN 3 taken concurrently. Historical influence in nursing and health care. Contemporary status of registered nurses. Cultural, spiritual, ethical and social components of nursing. The law and the nursing student.

ADN 5B (1) NURSING TRENDS AND OPPORTUNITIES

1 Hr. Lec.

Prerequisite: ADN 3 and ADN 5A, ADN 4 taken concurrently. Contemporary problems and trends in nursing. Legal and ethical aspects. Legislation affecting health care. Organizations and publications. Career opportunities. Personal responsibility for professional growth.

ADN 80 (2) **REVIEW FOR RN LICENSURE** 4.44 Hrs. Lec.

Prerequisite: ADN graduate or equivalent. This course is designed to prepare students to take the State Board licensure examinations. The course will cover the five major areas of nursing: Pediatric, maternal, psychiatric, medical and surgical nursing. Also included:

Psychology of test-taking and methods of relaxation. Emphasis will be on assessment, intervention and rationale of nursing action.

NURSING - TRANSITIONAL

For Licensed Vocational Nurses

California law provides that a Licensed Vocational Nurse shall be eligible to apply for examination for licensure as a registered nurse when certain courses (totaling 30 units of credit) have been completed in an Associate Degree Nursing Program accredited by the Board of Registered Nursing. Applicants are advised to confer with the Nursing Director concerning the details of the Board of Registered Nursing requirements.

In addition to the above, periodically (when sufficient students indicate interest) a special program will be offered for a group of LVN's who wish to complete the above-mentioned requirements.

TN 10 (8) TRANSITIONAL NURSING I 4.4 Hrs. Lec. 10.6 Hrs. Lab.

Prerequisites: VN 56 or equivalent, Bio 21, Anat 10 or Physio 1. Introduction to the role of the registered nurse in contemporary society including the control forces of legal and ethical responsibilities of the registered nurse. Theory and integrated clinical experiences in meeting the needs of healthy and ill individuals based on principles from the natural and social sciences. Self-awareness, personality development, group process and therapeutic use of self are studied. Emphasis placed on the changing role of the nurse from vocational nursing practice to registered nursing practice. (Course is taught as 8 hours lecture and 19 hours laboratory per week during a 10-week summer session for a total of 80 hours lecture and 190 hours laboratory.)

TN 11 (14) TRANSITIONAL NURSING II 8 Hrs. Lec. 18 Hrs. Lab.

Prerequisite: TN 10. Through the processes of nursing, managing and selfdevelopment, the student is guided through theory and clinical experiences to plan, carry out and evaluate comprehensive nursing care for individuals of all ages. Practice is offered in nursing leadership, rehabilitation and health teaching in a variety of settings. Emphasis is placed on personal responsibility for professional growth.

NURSING-CONTINUING EDUCATION

Prospective students are advised to check with the college previous to each semester concerning continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. A "Materials and Special Services Fee" will be charged. All courses have been approved by the California Board of Registered Nursing, BRN Provider No. 00294, and meet the requirements for relicensure.

RN 38 (1/2-3) THIS YEAR'S ISSUES IN HEALTH 1/2-3 Hrs. Lec.

A variety of lectures, seminars, and workshops, covering current issues in community health care and/or nursing will be offered each semester for health personnel interested in securing Continuing Education credit and/or expanding and updating their knowledge in certain health related fields. Such topics as Cardiac Arrhythmia Recognition, Neonatal Nursing, Body Fluids and Electrolytes, Creative Supervisory Skills, Renal Dialysis, Respiratory Care, CPR Provider, CPR Instructor, Advanced Life Support, Pharmacology will be included. Programs will be 2 hours or more in length; attendance hours accumulated within one semester totaling a minimum of 9 will earn 1/2 college unit and increments of 9 hours thereafter will earn 1/2 college unit up to a total of 54 attendance hours, which will earn 3 college units. C.E. certificates will be issued for each program. (Same as VN 38, HA 38)

RN 39 (6) **NURSING THE ACUTELY ILL** 6.7 Hrs. Lec.

Prerequisites: ADN 5AB, VN 56 or equivalent (with permission of instructor and completion of a Basic Arrhythmia Recognition course - this may be challenged.) An intensive review of cardiovascular, pulmonary, autonomic nervous and renal systems and the disease processes involved. Nursing care and nursing assessment of the acutely ill patient. Comprehensive study in electrocardiography and analysis of arrhythmias, drug management, fluid and electrolyte balance. Emergency nursing measures explored in detail. (Total hours for completion of course are 120 hours lecture.) (Same as VN 39) (Formerly RN 20)

RN 40 (2) INTRAVENOUS THERAPY TECHNIQUE

1.8 Hrs. Lec. .3 Hr. Lab.

Prerequisite: ADN 5AB, VN 56 or equivalent. A course of instruction in intravenous therapy and the practice of venipuncture and blood withdrawal. Total hours for completion of course are 33 hours lecture and 6 hours laboratory. (Same as VN 40, HA 40) (Formerly RN 26)

NURSING - REGISTERED

(Graduates of Hospital Diploma Schools of Nursing)

The A.S. Degree will be awarded to graduates of hospital diploma schools of nursing who meet all of the following criteria and complete the following program:

Criteria

- Graduate of a state-accredited hospital school of nursing which had a curriculum covering the five basic areas of nursing (medicine, surgery, obstetrics, pediatrics, psychiatry).
- Present California Registered Nurse Licensure.
- Present enrollment at Imperial Valley College.

Program to be Completed

Blanket credit for previous nursing courses completed 40 Units (Corresponds to number of RN course units in IVC Associate Degree Nursing Program.)

General Education courses to meet college requirements for graduation 20 Units

(In order to allow the graduate to articulate with baccalaureate programs in nursing, it is strongly recommended that the following courses be taken within the general education requirements: Anatomy 8, Human Physiology 1, Biology 21, Psychology 1A, Sociology 1, Psychology 35.)

Applicants for this degree must verify items 1 and 2 of the Criteria with the Nursing Director. Check with Counseling Center for procedure to follow.

NURSING - VOCATIONAL

The Vocational Nurse Program (three semesters in length) prepares the student to receive a Certificate of Completion from the college and be eligible to write the examination given by the California Board of Vocational Nurse and Psychiatric Technician Examiners to obtain licensure as a Licensed Vocational Nurse. The program prepares men and women to give direct patient care in health-care agencies under the supervision of a registered nurse or physician. In addition to classes on the college campus, students receive coordinated instruction and clinical experiences at selected area hospitals under

the guidance of nursing faculty members. Transportation to area hospitals and agencies must be supplied by the student.

Students are admitted every third semester (in September or January). A Nursing Admissions Committee will review all applications. Early application (six months before anticipated admission) is recommended, since the number of students who can be admitted is limited. Admission requirements include high school graduation (or its equivalent), a year of high school biology (or its college equivalent), eligibility to take the Eng 1A course and completion of Math 51 (as determined by college placement tests), physical and dental examinations (including specified immunizations). Applicants with prior education in nursing (RN, VN, or Health Aide) may apply for credit by examination and/or advanced placement. This will be determined on an individual basis. For continuation in and successful completion of the program, a grade of C or better is required in each of the courses below and an overall 2.0 grade point average (C=2.0) must be maintained in order to enroll in each succeeding semester of the program.

CURRICULUM

	Units 1st S.	*Units 2nd S.	*Units 3rd S.
Psych 5	Psych. of Effect, Behav. (or Psych 1A, if elig.) 3		
V.N. 50	Med-Surg Nsg. I 7		
V.N. 51	Clin. Fund 7		
V.N. 52	Med-Surg Nsg. II	4	
V.N. 53	Mat-Child Nsg	6	
V.N. 54	Clin. Fund	7	
V.N. 55	Med-Surg Nsg. III		10
V.N. 56	Clin. Fund	0.0	7
	17	17	17

*Second and third semesters may be reversed.

VN 50 (7) MEDICAL-SURGICAL NURSING I 7 Hrs. Lec.

Prerequisite: Enrollment in the Vocational Nursing Program. Concurrent with VN 51. Introduction to the relationship that exists between the nurse and the patient and between the nurse and other members of the health team. Legal, ethical, spiritual, social and historical components of vocational nursing. Foundations and theory of principles of nursing care as they relate to patients with musculo-skeletal and digestive system disorders. The normal as well as the abnormal will be studied. Vocational nurse's responsibility toward prevention of disease and rehabilitation. Psychological impact of illness on a patient and his family. Medications and nutrition integrated throughout.

VN 51 (7) CLINICAL FUNDAMENTALS 21 Hrs. Lab.

Prerequisite: Concurrent with VN 5 Application of the basic skills require to meet the immediate needs of the patient in the hospital setting. Found tions and theory of principles of nursic care as they relate to patients with musculo-skeletal and digestive systems of the patients. Medications and nutritiving the patients of the patients with the patients with the patients of the patients with the patients of t

VN 52 (5) MEDICAL-SURGICAL NURSING II 5 Hrs. Lec.

Prerequisite: VN 50, VN 51. Concurred with VN 54. Nursing care for patient with circulatory diseases. The interrest tionship of the circulatory system with other systems of the body. The norm as well as the abnormal will be studied Pharmacological and nutritional importations integrated throughout. Care opportunities, nursing organization and publications, legal and ethic aspects of the LVN, licensing requirements, personal responsibility for continuing education, legislation affection health care.

VN 53 (5) MATERNAL-CHILD HEALTH NURSING

5 Hrs. Lec.

Prerequisite: VN 50, VN 51, concurred with VN 54. Maternal and child heat with emphasis on the normal growth a development pattern. Abnormal contions introduced as they relate to prevention and control. The role and nutring responsibilities of the vocation nurse to the family as a whole. Medications and nutrition integrated throughout.

VN 54 (7) CLINICAL FUNDAMENTALS 21 Hrs. Lab.

Prerequisite: VN 50, VN 51. Concurre with VN 52 and VN 53. Development previously learned skills in addition procedures of more complex nature related to total patient needs as well specific diseases and disorders of circulatory system. Nursing care of mother, the newborn infant and family group. Medications and nutrit integrated throughout.

VN 55 (10) MEDICAL-SURGICAL NURSING III 10 Hrs. Lec.

Prerequisite: VN 50, VN 51. Concurre with VN 56. A continuation in the und standing of theory related to nurs care of patients with health proble involving the excretory, integuments sensory, respiratory, endocrine a nervous systems. Care of the geria

patient. The integration and interrelationship of all body systems. Medications and nutrition integrated throughout.

VN 56 (7) CLINICAL FUNDAMENTALS 21 Hrs. Lab.

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Prerequisite: VN 50, VN 51. Concurrent with VN 55. Continuation of development of proficiency in performing procedures and planning total patient care. Independent decision making within the realm of the vocational nurse. More intensive and comprehensive nursing techniques will be experienced. Previously learned nursing care will be emphasized and correlated. Stress will be placed on planning nursing care and making independent decisions. Medications and nutrition integrated throughout.

NURSING-CONTINUING EDUCATION

Prospective students are advised to check with the college previous to each semester concerning continuing education courses to be offered. New courses are offered periodically as community health agency and health personnel needs are identified. A "Materials and Special Services Fee" will be charged. All courses have been approved by the California Board of Vocational Nurse and Psychiatric Technician Examiners, BUNPT Provider No. 00294, and meet the requirements for relicensure.

VN 38 (½-3) THIS YEAR'S ISSUES IN HEALTH ½-3 Hrs. Lec. (Same as RN 38, HA 38)

VN 39 (6)
NURSING THE ACUTELY ILL
6.7 Hrs. Lec.
(Same as RN 39) (Formerly VN 20)

VN 40 (2)
INTRAVENOUS THERAPY
TECHNIQUE
1.8 Hrs. Lec. .3 Hr. Lab.
(Same as RN 40, HA 40) (Formerly VN 26)

PHILOSOPHY

PHIL 1A (3) INTRODUCTION TO PHILOSOPHY 3 Hrs. Lec.

Man's interpretation of the nature and meaning of reality. Emphasis placed upon the existence of God, free will and mind-body problems.

PHIL 1B (3) INTRODUCTION TO PHILOSOPHY 3 Hrs. Lec.

The place of philosophy in intelligent living and the methods and significance of philosophical inquiry. Emphasis is placed upon problems of value and human nature. Phil 1B may be taken before Phil 1A.

PHIL 10 (3) LOGIC 3 Hrs. Lec.

An introduction to deductive and inductive logic. Attention focused upon the relationship between logic and language, fallacies, and the use of logic in everyday life.

PHIL 11 (3) ETHICS 3 Hrs. Lec.

An introduction to significant and typical value theories and systems, and of the concrete problems such theories seek to explain. Emphasis placed upon teaching students to critically analyze their own value systems.

PHIL 25 (3) RELIGIONS OF THE MODERN WORLD 3 Hrs. Lec.

An introduction to the various contemporary religions of the world with an emphasis on their historical development. Study of basic beliefs of such religions as Hinduism, Buddhism, Taoism, Zen.

PHOTOGRAPHY

PH 5 (3) INTRODUCTION TO PHOTOGRAPHY 2 Hrs. Lec. 3 Hrs. Lab.

The basic theory, techniques and skills of photography. Consideration will be given to factors such as correct use of cameras and lenses, determination of exposure, different types of films and filters, lighting, principles of composition, and the legal aspects of photography. Print production will be covered by sections on darkroom techniques. photographic chemicals, development of film, contact printing, and enlargement technique. The student will provide an adjustable camera for assignment work. Specific projects will be developed for students with special subject interest. (Same as Jrn 5)

PH 6 (3) INTERMEDIATE PHOTOGRPAHY 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Ph 5/Jrn 5 or permission of the instructor. Psych 1A is recommended. A continuation of Ph 5/Jrn 5 with emphasis on lighting, basic poses and studio work. Posing of the subject and visualization of the finished picture will be stressed, with further practice in camera operation and film processing.

PH 7 (3) ADVANCED PHOTOGRAPHY 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Ph 5 and Ph 6 or equivalent. A continuation of Ph 6 with emphasis on advanced studio and location work and on illustrative photography including magazine covers, fashion and lay-out.

PH 8 (3) MULTI-MEDIA 3 Hrs. Lec.

Prerequisites: Ph 5 and Ph 6. Ph 7 recommended. An introduction to color slides and motion picture production through the use of sequence stills, employing all techniques used in previous photographic courses. Emphasis will be given to the following areas: script writing, sound track, exposing of color film, camera techniques.

PHYSICAL EDUCATION

Unless exempt, each student is required by district policy to schedule one activity course each semester. A student may take A-B-C-D sections of the same course, but not in the same semester.

PE 1 (4) PHYSICAL EDUCATION ACTIVITY MILITARY SERVICE

Prerequisite: The satisfactory completion of one year or more in the military service of the United States. The student wishing credit for military service must present his DD214 or equivalent supporting document to the Admissions Office. If the student signs up for the class for military credit and does not submit verification of service, he will be dropped as a No-Show and will not receive credit. PE 1 does not count for units toward VA or full-time student status. These hours are not contact hours. This course meets the physical education requirement, but may be taken only once.

PE 2ABCD (1-1-1-1) GYMNASTICS, COED 2 Hrs. Lab.

Gymnastics involves the use of heavy apparatus plus free exercise and free calisthenics for individual development and performance. Instruction is given concerning group stunts and rules concerned with competition and exhibitions. Emphasis is put on safety techniques associated with gymnastics.

PE 3ABCD (1-1-1-1) PHYSICAL FITNESS, WOMEN

This course is designed to emphasize physical conditioning and development. Equips the student with a repertoire of exercises and conditioning activities which can be used to maintain physical fitness throughout college and adult life.

PE 4ABCD (1-1-1-1) **BADMINTON, COED** 2 Hrs. Lab.

Etiquette, rules, background and techniques of playing badminton.

PE 5ABCD (1-1-1-1) SWIMMING, COED 2 Hrs. Lab.

This course is concerned with teaching the student to successfully execute the proper strokes for swimming. Skills, fundamentals and safety knowledge are stressed from the beginner to the intermediate swimmer.

PE 6 (2) LIFESAVING

11/2 Hrs. Lec. 11/2 Hrs. Lab.

Prerequisite: PE 5B or approval of instructor. Techniques of life saving and water safety. This course meets requirements of the Red Cross Senior Life Saving Certificate.

PE 7 (2) WATER SAFETY INSTRUCTOR TRAINING

1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Advanced Life-saving card for W.S.I. A course designed to acquaint the student with the basic principles of instructing beginning, intermediate, and advanced water safety skills. It will also prepare the student to teach basic rescue and advanced life-saving, CPR, and basic first aid as it applies to water safety procedures. Successful completion of this course may include certification as an American Red Cross Water Safety Instructor and as a CPR Instruc-

PE 8ABCD (1-1-1-1) **BOWLING, COED**

Etiquette, rules, background and techniques of bowling are stressed in the course. Basic skills and score keeping are emphasized. Social etiquette of the game is stressed along with the worthy use of leisure time.

PE 9ABCDEFGH (1-1-1-1-1-1-1) ADAPTED PHYSICAL EXERCISES, COED

2 Hrs. Lab.

Open only to students who are unable to participate in regular physical education program. The course is specifically designed to meet the individual needs of these students.

PE 10ABCD (1-1-1-1) **TEAM SPORTS** 2 Hrs. Lab.

The course is designed to stimulate the development of mental and physical alertness and poise, and to encourage regular participation in a variety of sports. Includes coeducational activities.

PE 11ABCD (1-1-1-1) VOLLEYBALL, COED 2 Hrs. Lab.

A course designed to present the basic fundamentals of volleyball such as the serve, setting, spiking, and team play. Rules and class competition are included.

PE 12ABCD (1-1-1-1) **TENNIS, COED**

2 Hrs. Lab.

Tennis offers training in the basic fundamentals of the game including history, rules and etiquette. Social etiquette of the game is stressed along with the worthy use of leisure time. Tournament competition in singles and doubles is emphasized.

PE 13 (1) ADVANCED TENNIS, COED 2 Hrs. Lab.

Prerequisite: PE 12ABCD or approval of instructor. Review and practice of forehand, backhand, serve and volley, overhead smash and lob. Emphasis on court strategy and tactics for singles and doubles competition.

PE 14ABCD (1-1-1-1) RECREATIONAL GAMES, COED 2 Hrs. Lab.

Designed to offer students a chance to participate in many activities not otherwise offered in the physical education curriculum. Recreation majors, physical education majors, and those just interested in setting up community recreation centers will find this course most valuable. Meets physical education activity requirement.

PE 15ABCD (1-1-1-1) FIGURE CONTROL FOR WOMEN

This course is designed to emphasize physical conditioning and development. Equips the student with a knowledge of exercises and conditioning activities which can be used to maintain physical fitness throughout her adult life.

PE 16ABCD (2-2-2-2) JOG-ER-CISE

1 Hr. Lec. 4 Hrs. Lab.

Jog-er-cise will use various methods in order to combat obesity. Methods such as jogging, water exercises, weight lifting, exercises, guest speakers, buddy systems, counseling by instructor on an individual basis and rewards for accomplishment.

PE 17ABCD (1-1-1-1) PHYSICAL FITNESS. MEN 2 Hrs. Lab.

This course is designed to emphas physical conditioning and developme Equips the student with a repertoire exercises and conditioning activity which can be used to maintain physi fitness throughout college and adult I

PE 18ABCD (1-1-1-1) **GOLF, COED** 2 Hrs. Lab.

Offers training in the fundamentals strokes with irons, woods and putte includes rules and etiquette of the gar Actual participation upon a golf cou and the worthy use of leisure time emphasized.

PE 19A (1) KARATE, COED 2 Hrs. Lab.

Designed to give the student an int duction to the basic movements a self-defense tactics used in Okinav Kempo Karate.

PE 19B (1) KARATE, COED 2 Hrs. Lab.

Prerequisite: PE 19A or permission instructor. Course is designed to g the student greater skill and expertise using techniques and self-defense t tics learned in PE 19A. Kumite (f sparring) will be a key element in furt developing the skills learned in PE 1

PE 19C (1) **ADVANCED KARATE** 2 Hrs. Lab.

Prerequisites: PE 19A and PE 19B. T course is designed to give the int mediate student a chance to strength and perfect pin — ans and fighting te niques learned in PE 19B. Break techniques will also be included as p of the course.

PE 20ABCD (1-1-1-1) SOFTBALL, COED 2 Hrs. Lab.

This course is designed to emphase the fundamentals, knowledge of ru coaching techniques and basic kn ledge of the game of softball.

PE 22ABCD (1-1-1-1) RACQUETBALL AND HANDBALL, COED

2 Hrs. Lab.

Instruction and development of handball skills. Presentation of sin and doubles play, including basic st and strategy.

PE 23ABCD (1-1-1-1) **BASKETBALL FOR WOMEN** 2 Hrs. Lab.

Designed for women students intere

in basketball. To offer basic and advanced fundamentals, team play and strategy.

PE 24ABCD (1-1-1-1) BASKETBALL FOR MEN 2 Hrs. Lab.

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An introduction to the fundamental skills and strategy of the game. Rules and class competition are included in the course.

PE 25ABCD (1-1-1-1) FOLK DANCE, COED 2 Hrs. Lab.

Participation and instruction in basic fundamentals, forms and patterns of folk dancing.

PE 26ABCD (1-1-1-1) MODERN DANCE, COED 2 Hrs. Lab.

Participation and instruction in rhythmic fundamentals, factors related to movement, movement fundamentals and dance skills, creative activity, and evaluation. Designed to develop the student's ability to use expressive body movements in a creative art form. More complex individual dance sketches and small group dance studies.

PE 27ABCD (1-1-1-1) DISCO DANCE, COED 2 Hrs. Lab.

To enhance the dancing skills and present day "disco" patterns.

PE 28ABCD (2-2-2-2) DANCE THEATER, COED 3 Hrs. Lab. 1 Hr. by arrangement

Prerequisite: Permission of the instructor. A performance group presenting all forms of dance and related theatre arts. A minimum of five outside performances required each semester. Meets physical education activity requirement.

PE 29ABCD (1-1-1-1) JAZZ DANCE, COED 2 Hrs. Lab.

A study of syncopated movement.

PE 30ABCD (2-2-2-2) SONG AND CHEER 4 Hrs. Lab.

Practice and performance class for songleaders and cheerleaders. Satisfies physical education activity class requirement.

PE 31AB (2-2) INTERCOLLEGIATE FOOTBALL AND P.E.

Hours to be arranged

Theory and practice of competitive football. Limited to students trying out for varsity team. The students must schedule for a minimum of 10 hours per week.

PE 32ABCD (2-2-2-2) INTERCOLLEGIATE BASKETBALL AND P.E.

Hours to be arranged

Theory and practice of basketball. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week.

PE 33AB (2-2) INTERCOLLEGIATE TRACK AND P.E. Hours to be arranged

Theory and practice of track. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week.

PE 34AB (2-2) INTERCOLLEGIATE BASEBALL AND P.E.

Hours to be arranged

Theory and practice of baseball. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week.

PE 35ABCD (2-2-2-2) INTERCOLLEGIATE WRESTLING AND P.E.

Hours to be arranged

Theory and practice of wrestling. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week.

PE 36AB (2-2) INTERCOLLEGIATE GOLF AND P.E. Hours to be arranged

Theory and practice of golf. Limited to students trying out for varsity team.

PE 37AB (2-2) INTERCOLLEGIATE CROSS COUNTRY AND P.E. Hours to be arranged

Intercollegiate cross country running over a four-mile course. The student must schedule for a minimum of 10 hours per week.

PE 38AB (2-2) INTERCOLLEGIATE TENNIS AND P.E. Hours to be arranged

Eligibility will be determined by Desert Conference rules; however, "redshirts" will be permitted to take the class and work out with the team. IVC guidelines in the AS Handbook for athletics will also apply. Team membership will be the top seeded 8-10 players. Open to both men and women.

PE 39ABCD (2-2-2-2) COLLEGE RODEO 10 Hrs. Lab.

(Same as Ag 69ABCD)

PE 40ABCD (2-2-2-2) SYNCHRONIZED SWIMMING 4 Hrs. Lab.

Prerequisite: Consent of instructor. Synchronized swimming is the concept

of swimming as an art form. The swimmer executes movements in time with music as a solo performer or in time with other swimmers.

PE 41AB (2-2) INTERCOLLEGIATE VOLLEYBALL AND P.E.

Hours to be arranged

Prerequisites: Eligibility will be determined by Desert Conference rules. IVC guidelines in the Associated Students' Handbook for Athletics will also apply. This course is designed to give the individual a well-rounded knowledge in volleyball. The course should help develop a relationship of athletics to other matters such as exercise, recreation, sportsmanship and competition. The student must schedule for a minimum of 10 hours per week.

PE 42AB (2-2) INTERCOLLEGIATE SOCCER AND P.E.

Hours to be arranged

Theory and practice of soccer. Limited to students trying out for a varsity team. The student must schedule for a minimum of 10 hours per week.

PE 44 (1) DEFENSIVE TACTICS 2 Hrs. Lab. (Same as LE 23)

PE 47 (2) COACHING TECHNIQUES OF WRESTLING

2 Hrs. Lec.

Course designed to prepare physical education students with the basic know-ledge of wrestling fundamentals and coaching techniques. Organization of new programs and conducting of tournaments.

PE 50 (2) INTRODUCTION TO PHYSICAL EDUCATION 2 Hrs. Lec.

Principles and organization of physical education and areas of specialization within the field.

PE 51 (2) STRUCTURING INTRAMURALS 1 Hr. Lec. 4 Hrs. Lab.

Prerequisite: Basic knowledge and/or experience in competitive sports and recreational games. The course is designed to provide students experience in structuring various types of sports and recreation tournaments through assisting in the IVC intramural program.

PE 52AB (2-2) THEORY OF BASEBALL 2 Hrs. Lec.

A history of the game, knowledge of rules, current and possible future trends

in the game, coaching techniques and scouting. Recommended for physical education majors, potential coaches and recreation majors.

PE 53AB (2-2) THEORY OF BASKETBALL, COED 2 Hrs. Lec.

This course is designed for physical education majors, recreation majors and potential coaches. Coaching techniques and theories, history, rules and current and possible future trends in the game will be offered.

PE 54AB (2-2) THEORY OF FOOTBALL 2 Hrs. Lec.

Provides students with fundamental concepts, theories and techniques of coaching and playing intercollegiate and interscholastic football.

PE 56 (2) CARE AND PREVENTION OF ATHLETIC INJURIES 2 Hrs. Lec.

This course is designed for the coach, coach-trainer, physical education and recreation student. Emphasizes the screening and conditioning of athletes, prevention, care and treatment of athletic injuries. Includes techniques of applying supportive materials, rehabilitation of injuries and use of therapeutic modalities. Organization of a new athletic training program.

PE 57 (2) BOATING SAFETY 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: swimming ability. However, all students will be required to wear personal floating devices while on open water. The course will stress boating safety in relation to the purchase and operation of equipment required on boats used on coastal and inland waters of California. Material will be presented in classes on laws, regulations, operation, maintenance, navigation, rescue, first aid, equipment, weather, accident prevention, rules-of-the-road, anchoring and sailor terminology. There will be swimming pool and open lake boating operation opportunities during the lab.

PE 58 (2) PSYCHOLOGY OF COACHING 2 Hrs. Lec.

Prerequisites: Sophomore status or permission of instructor. A course covering all the aspects of the psychology of coaching sports. Includes certain guides to show how teaching and learning may be applied to the coaching of sports, and to bring out the relationship of meaningful learning to successful athletic coaching.

PE 59AB (3-3) SPORTS OFFICIATING, MEN 2 Hrs. Lec. 3 Hrs. Lab.

Theory and practice in the techniques of officiating in highly organized games and sports such as basketball, football, wrestling, baseball, track and tennis. Students must plan for an additional three hours per week to officiate at elementary schools.

PE 60AB (3-3) SPORTS OFFICIATING, WOMEN 2 Hrs. Lec. 3 Hrs. Lab.

To familiarize prospective physical education majors and minors with the rules of team and individual sports for girls.

PE 61 (3) PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL 3 Hrs. Lec.

This course is designed to prepare the elementary school teacher to teach the whole child through physical education.

PE 62AB (3-3) PHYSICAL EDUCATION FOR SPECIAL OLYMPICS

2 Hrs. Lec. 2 Hrs. Lab. plus 2 Hrs. Lab. to be arranged

A course designed to train college students to condition and prepare retarded persons for competition in Special Olympics.

PE 64AB (1-1) HORSEMANSHIP-EQUITATION 1 Hr. Lec. 1 Hr. Lab. (Same as Ag 64AB)

PE 66 (1) INTERMEDIATE HORSEMANSHIPEQUITATION

1 Hr. Lec. 1 Hr. Lab. (Same as Ag 66)

PHYSICALLY LIMITED

PL 1 (3) UNDERSTANDING EXCEPTIONAL STUDENTS

2 Hrs. Lec. 2 Hrs. Lab. (Same as ECE 27/Psych 27)

PL 2AB (2-2) PRACTICUM EXPERIENCE TO WORK WITH THE PHYSICALLY LIMITED PERSON

5 Hrs. Lab.

Prerequisite: PL 1 and completion or current enrollment in Psych 1A or Psych 5 and Option A, B, or C as indicated in the Rehabilitation Technician Major/ Certificate, or by demonstrated competency. A course designed to extend the experience of Rehabilitation Technician majors who wish to explore a spec area of contact with physically limi individuals. Experience may be gair on the college campus or in the field w deaf, blind or orthopedically han capped individuals. This course may repeated to provide experience in a s ond area. Course may be taken for creor letter grade.

PL 3 (1-6) SURVEY OF CAMPUS LIFE FOR TH PHYSICALLY LIMITED 1-6 Hrs. Lec.

This course is designed to help prep the physically limited student for ful adaptive participation in commun college activities, academic, soo vocational and environmental.

PL 4AB (2¹-2) LIVING WITH A HEARING LOSS 2 Hrs. Lec.

A course designed to help reduce communication barriers often pres when a person has a hearing loss. Inature of each loss, the use of hear aids, factors influencing lipreading at ty, and problems arising from living wa hearing loss will be discussed. I course is designed specially for mature person who has an acquir hearing loss.

PL 6ABCDEFGH (1-4) PERSONAL AND SOCIAL ADJUSTMENT FOR THE PHYSICAL LIMITED

1-4 Hrs. Lec.

This course is designed to help the p sically limited students who have d culty in adjusting to the educatio complexities encountered in collevel classes because of deficiencies their educational backgrounds.

PL 10 (4) BEGINNING COMMUNICATION WI THE DEAF 5 Hrs. Lec.

An introduction to American sign la uage, designed to provide basic or munication skill and increased awness of the psychology of an individual with a severe hearing impairment. Course will include definitions of hing loss, history of deaf education problems of communication, as we emphasizing vocabulary developm syntax and idiomatic expressions to by the "typical" deaf adult.

PL 11 (4) INTERMEDIATE COMMUNICATIO WITH THE DEAF

5 Hrs. Lec.

Prerequisite: Completion of PL Vocabulary enrichment and fingers ling drill designed to increase sp accuracy and rhythm in expressive language and improved receptive a

ty. Emphasis will be placed upon clarity of performance and appropriateness of vocabulary. There will be increased opportunities to interpret from spoken English to Manual English to prepare for the interpreter certification.

PL 12 (3) ADVANCED COMMUNICATION WITH THE DEAF

3 Hrs. Lec.

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Prerequisites: Completion of PL 10 and PL 11 or permission of the instructor. This course is designed for the student with extensive sign vocabulary who desires skills for interpreting for the deaf in the classroom or other social situations.

PL 13ABCD (1-1-1-1) COMMUNICATION WITH THE DEAF IN THE COLLEGE CLASSROOM 1 Hr. Lec.

Prerequisites: PL 10, PL 11, PL 12 or permission of the instructor. This course is designed for deaf students at IVC and students assisting as interpreters in class.

PL 20 (3) LITERARY BRAILLE 3 Hrs. Lec.

This course is designed to familiarize the student thoroughly with the braille system for literary braille, braille contractions and their usage and with the rules of transcribing braille as well as practice in reading braille.

PL 21 (3) PSYCHOLOGY OF PHYSICAL DISABILITIES 3 Hrs. Lec.

An introduction to psychological theory as it has been applied to the individual with a physical disability. The course will include discussion of what is lost in a physical disability, cultural attitudes toward disability, disability and personality, special problems of the atypical physique and adjustment in the physically handicapped.

PL 22ABCDEFGH (2-2-2-2-2-2) THE ART OF CONVERSATION 2 Hrs. Lec.

The development of a set of skills that will improve conversation abilities and skills.

PL 23ABCDEFGH (2-2-2-2-2-2) TACTILE ART FOR THE PHYSICALLY LIMITED

4 Hrs. Lab.

This course is designed to enrich the aesthetic experience of the physically limited. Students will explore various art medias and methods.

PL 24ABCDEFGH (1-1-1-1-1-1) GENERAL AND APPLIED MUSIC FOR THE VISUALLY HANDICAPPED 2 Hrs. Lab.

A course to provide experience with general music in terms of listening skills, elements, basic structure and style. Application of skills involving sensitivity to rhythm, pitch, sound and structure of music with individual and group participation in singing and in rhythmic accompaniment. Course designed for the visually handicapped.

PL 30 (3) INTRODUCTION&TO SPEECH AND LANGUAGE

3 Hrs. Lec.

This course is designed to acquaint the student with the normal speech and language developmental sequence, and introduce him to deviations from normal patterns. Etiology, characteristics, and prognosis for various speech and language disorders will be explored.

PL 31 (3) INTERVIEWING AND TESTING TECHNIQUES FOR SPEECH AND HEARING PROBLEMS

3 Hrs. Lec.

A course designed to acquaint students with good interview techniques, and to provide experience in administration of basic speech and language screening materials. The students will gain insight into test design and factors affecting test outcomes.

PL 32 (3) BEHAVIOR MODIFICATION TECHNIQUES FOR SPEECH AND HEARING PATHOLOGY

3 Hrs. Lec.

Prerequisite: Psych 1A or Psych 5 and PL 30 or permission of the instructor. A course designed to introduce the student to principles of behavior modification as used in speech and hearing pathology, to enable him to isolate modifiable behavior, and to successfully modify simple behavior patterns.

PL 33 (3) INTRODUCTION TO AUDIOLOGY 3 Hrs. Lec. 1 Hr. Lab.

This course includes an introduction to the science of hearing, fundamentals of acoustics as they apply to audiometric testing, basic anatomy and physiology of the hearing mechanism, pathologies causing impaired hearing, interrelationship of hearing to speech and language development, and familiarization with audiologic assessment and clinical procedures.

PL 34 (3) AUDIOMETRY AND HEARING CONSERVATION

3 Hrs. Lec. 1 Hr. Lab.

Prerequisite: PL 33 recommended. This course includes identification audiometry, pre-school hearing screening, industrial audiometry, and the role of the audiometrist, nurse-audiometrist and speech-hearing therapist in the total conservation of hearing program.

PL 40 (3) INTRODUCTION TO PHYSICAL THERAPY

3 Hrs. Lec.

A course dealing with the most common types of neurological and orthopedic problems and various methods of physical therapy used in treatment of these problems.

PL 41 (3) INTRODUCTION TO OCCUPATIONAL THERAPY 3 Hrs. Lec.

An introduction to the basic philosophy, principles and techniques used in occupational therapy. This course will survey rehabilitation of specific disabilities, facilities employing O.T. specialists, neuro-muscular integration, activities of daily living, principles of self-care, personal hygiene and transfer techniques. Activities and field trips to clinics are required.

PL 50 (3) SHOP MATHEMATICS 3 Hrs. Lec. 2 Hrs. Lab.

(Same as Ag 50, AT 50, Math 50 and Weld 50)

PHYSICAL SCIENCE

PHYS SCI 25 (4) INTRODUCTION TO PHYSICAL SCIENCE

3 Hrs. Lec. 3 Hrs. Lab.

Selected topics in physical science. The relations of physical science to modern life through emphasis on the scientific method. Designed for those intending to take only one semester of physical science. May be combined with Bio 3 for a year course in the basic principles of natural science.

PHYSICS

PHYS 2A (4) GENERAL PHYSICS 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Algebra; trigonometry strongly recommended. Principles of mechanics and heat. Statics, uniform motion, accelerated motion, work and energy, impulse and momentum, fundamentals of heat and heat flow, properties of gases.

PHYS 2B (4)
GENERAL PHYSICS
3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Phys 2A. Simple harmonic motion, sound, doppler effect, acoustical phenomena, electrostatics, current electricity, Ohm's Law, light, spectroscopy, geometric optics, modern physics.

PHYS 4A (4)
PRINCIPLES OF PHYSICS
3 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Credit for or concurrent enrollment in Math 3A. This course is designed to give an understanding in the fundamental principles of mechanics.

PHYS 4B (4)
PRINCIPLES OF PHYSICS
3 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Phys 4A and credit or concurrent enrollment in Math 3B. This course is designed to give an understanding of the fundamental principles of physics in the areas of electricity and magnetism.

PHYS 4C (4)
PRINCIPLES OF PHYSICS
3 Hrs. Lec. 4 Hrs. Lab.

Prerequisites: Phys 4B and completion of Math 3B. This course is designed to give an understanding of the fundamental principles of physics in the area of heat, wave motion, sound, light, and modern physics.

PHYSIOLOGY

PHYSIO 1 (4) HUMAN PHYSIOLOGY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Chemistry and Biology or Anatomy at either high school or collegiate level. The functions of the human body; emphasis on the circulatory, muscular, and nervous systems.

POLITICAL SCIENCE

POLY SCI 1 (3)
INTRODUCTION TO POLITICAL
SCIENCE

3 Hrs. Lec.

An introduction to the theories, principles and problems of modern political life and the methods of studying and acquiring political knowledge. Illustrative materials drawn primarily from the American experience. This course and either Poly Sci 2 or Hist 17B will meet graduation requirements in American institutions.

POLY SCI 2 (3) AMERICAN GOVERNMENT AND POLITICS

3 Hrs. Lec.

The origin, development and operation of local, state and national political institutions in the United States emphasizing the contemporary operations of the American political system. This course and either Poly Sci 1 or Hist 17A will meet graduation requirements in American institutions. May be taken before Poly Sci 1.

POLY SCI 3 (3) COMPARATIVE POLITICS 3 Hrs. Lec.

Prerequisite: Poly Sci 1 or 2. A comparative study of modern political systems. Emphasis upon patterns of political action and problems of decision-making in various cultural contexts.

POLY SCI 14 (3)
INTRODUCTION TO
INTERNATIONAL RELATIONS
3 Hrs. Lec.

An introductory course stressing the techniques of analysis of the basic factors making for conflict and adjustment in contemporary international relations. Problems of nationalism and imperialism, elements of national power, causes of war, methods of seeking peace, the role of international organizations, and the foreign policies of the major powers will be considered. Emphasis will be upon contemporary developments.

PSYCHOLOGY

PSYCH 1A (3) GENERAL PSYCHOLOGY 3 Hrs. Lec.

Prerequisite: Twelfth grade reading level ability is recommended for success in this course. An introduction to the fundamental principles and concepts of human behavior. Includes consideration of human development, learning, biological basis of behavior, maladaptive behavior, mental health, motivation and emotion.

PSYCH 1B (3) ADVANCED GENERAL PSYCHOLOGY 3 Hrs. Lec.

This course is designed to explore the methods of psychological inquiry, the

principles of learning (including classical conditioning, operant conditioning and social learning theory), and principles of perception (including physiological basis for perception a interpersonal perception).

PSYCH 2 (3)
INTRODUCTION TO
PHYSIOLOGICAL PSYCHOLOGY
3 Hrs. Lec.

Prerequisite: Psych 1A preferred. introduction to the function of experimental methodology in the investigat of physiological processes in psychogy. Emphasis is placed upon the physiological mechanisms which p vide a basis for perception, learni motivation, and other complex patter of behyavior.

PSYCH 3 (3) PSYCHOLOGY OF PERSONAL AND SOCIAL ADJUSTMENT 3 Hrs. Lec.

A study of development of the norr personality, focusing on common di culties of social and emotional adju ment. Various views of persona structure and approaches to perso growth are discussed. (Same as TA

PSYCH 5 (3) PSYCHOLOGY OF EFFECTIVE BEHAVIOR

3 Hrs. Lec.

A survey of some of the relevant psychlogical facts, principles, and conce involved in the experience and proble of everyday living. An experiential aproach, including emphasis upon effitive behavioral alternatives in parenti interpersonal relations, values clarification as well as proven methods of successful study.

PSYCH 7 (.5) PSYCHOLOGY LEARNING LAB 1 Hr. Lab.

Prerequisite: Current enrollment in P chology 1A. This class is designed a learning aid for students taking Psychogy 1A. The class will review geniconcepts from Psychology 1A, and o strategies for improving study te niques.

PSYCH 8 (3)
PERSONAL AND CAREER
DEVELOPMENT
3 Hrs. Lec.
(Same as HR 8)

PSYCH 9 (3) INTERVIEWING AND COUNSELIN 3 Hrs. Lec. (Same as HR 9)

PSYCH 10 (3) SMALL GROUP LEADERSHIP 3 Hrs. Lec. (Same as HR 10) PSYCH 11AB (3-3) PRACTICUM

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1 Hr. Lec. 6 Hrs. Lab. field experience per week

(Same as HR 11AB)

PSYCH 12 (3) ELEMENTARY STATISTICS 3 Hrs. Lec.

Prerequisite: Math A or equivalent. (Same as Bus 26/Math 12)

PSYCH 13AB (3-3) THE PARAPROFESSIONAL IN COUNSELING

2 Hrs. Lec. 3 Hrs. Lab.

A course designed for student paraprofessionals to increase their self-awareness, assertiveness, communication skills, and helping skills. Topics covered include an overview of theories and research on human development and bebavior; characteristics of the "healthy" personality; issues faced by college students; types of change agents; techniques for facilitating change; group dynamics; ethics and the role of student paraprofessionals in college settings. Two hours lecture, three hours spent weekly in supervised on-campus experiential placements such as in peer counseling, tutoring, etc. (Same as HR 13AB)

PSYCH 14 (3) ABNORMAL PSYCHOLOGY

Prerequisites: Psych 1A. Recommended: Psych 2 and Psych 3. This course reviews the causes and problems of disordered behavior. Current practices in therapy and prevention are emphasized. The topics of anxiety and fear, psycho-

neuroses, organic and functional psychoses are included.

PSYCH 15 (3) SOCIAL AND PSYCHOLOGICAL DYNAMICS OF DRUG USE 3 Hrs. Lec.

Prerequisite: Completion of, or concurrent enrollment in, Psych 1A, Psych 1B, Sociol 1 or Sociol 17 is recommended. This course views drug use behavior from a sociological and psychological perspective. It includes an analysis of factors contributing to drug use; societal influences, subcultural influence, primary group influences (peer group, and the family), and personal psychodynamics and development. It encompasses illegal as well as legal drug use, particularly alcohol. Some emphasis will be given to potential solutions and preventive methods which could be of practical value to parents and various professional and semi-professional workers. (Same as Sociol 15)

PSYCH 16 (3) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 3 Hrs. Lec.

An investigation of the dynamics of interpersonal relationships. Starting, developing, understanding, and improving one's relationships with others will be the focus of this course. Topics will include love, jealousy, meeting people, communications skills, self-disclosure, fair fighting techniques, sex roles, personal perception, and transactional analysis. Lecture-discussion-experiential.

PSYCH 17 (3) SOCIAL PSYCHOLOGY 3 Hrs. Lec.

A study of the social and psychological aspects of how people interact and influence each other. The course will cover such topics not included in Psych 1A or Sociol 1 as: methods and ethics of research, influence, attitude changes, persuasion, and propaganda, aggression, cooperation and competition, conformity, prejudice, communication, affiliation, dynamics of group structure, including leadership and role playing. These topics are covered at both the theoretical and practical levels. (Same as Sociol 17)

PSYCH 20 (3) DEVELOPMENTAL PSYCHOLOGY OF CHILDREN

3 Hrs. Lec.

A study of the psychological development of children, aimed at immediate and practical application of child rearing theory and practice, designed for prospective parents, parents, and those working with children. The course will cover the research and theories on factors affecting or altering children's behavior, intelligence, learning, mental and physical well-being, and motivation. The factors covered would include heredity, environment, maturation, and prenatal, natal, and postnatal physiology. (Same as ECE 20)

PSYCH 21 (3)
EARLY CHILDHOOD
SOCIALIZATION: CHILDREN,
FAMILY AND COMMUNITY
3 Hrs. Lec.
(Same as ECE 21)

PSYCH 22 (3)
PRINCIPLES OF CHILD
DEVELOPMENT & OBSERVATION
3 Hrs. Lec.

(Same as ECE 22)

PSYCH 23 (3)
EARLY CHILDHOOD
DEVELOPMENTAL CURRICULUM
3 Hrs. Lec.
(Same as ECE 23)

PSYCH 24 (3) CREATIVE LEARNING EXPERIENCES FOR YOUNG CHILDREN

3 Hrs. Lec. (Same as ECE 24, TA 24)

PSYCH 25 (3)
FIELD EXPERIENCE
1 Hr. Lec. 10 Hrs. Field Experience
(Same as ECE 25)

PSYCH 26 (3) THE ART OF PARENTING 3 Hrs. Lec.

This course is designed to provide parents and parents-to-be with practical down-to-earth methods of being good parents. While it is based on sound psychological principles, its content wil not be theoretical but practical, giving examples and illustrations on aspects of sound parenthood. (Same as ECE 26)

PSYCH 27 (3) UNDERSTANDING EXCEPTIONAL STUDENTS

2 Hrs. Lec. 2 Hrs. Lab.

Prerequisites: Psych 20/ECE 20 or Psych 1A. A psycho-educational approach to the study of exceptional students including physical, mental, emotional, sensory, speech, and learning disabilities. Designed for parents, as well as, for teachers and paraprofessionals working with exceptional students. Surveys the entire exceptional spectrum from gifted to retarded through observation, participation and lecture. Students will learn how to develop teaching strategies for all the exceptions. (Same as ECE 27/PL 1)

PSYCH 28 (3) ADMINISTRATION AND SUPERVISION IN EARLY CHILDHOOD EDUCATION

3 Hrs. Lec. (Same as ECE 28)

PSYCH 29 (2) CHILD DEVELOPMENT ASSOCIATES INTRODUCTION AND INITIAL ASSESSMENT

1 Hr. Lec. 2 Hrs. Lab. (Same as ECE 29)

PSYCH 30 (3) PSYCHOLOGY OF ADOLESCENCE 3 Hrs. Lec.

Deals with the practical aspects of the development and growth of adolescence. Particular attention is given to the influences, settings, and problem areas of adolescence and youth.

PSYCH 31 (2) CHILD DEVELOPMENT ASSOCIATE PORTFOLIO 2 Hrs. Lec. (Same as ECE 31)

PSYCH 35 (3) DEVELOPMENTAL PSYCHOLOGY: CONCEPTION TO DEATH

3 Hrs. Lec.

Prerequisites: None (Psych 1A recommended). A study of the psychological development of human beings from conception to death, covering prenatal development, infancy, toddlerhood, preschoolers, middle childhood, adolescence and adulthood including old age and death. The course will cover major theories of development, current research, and problem areas of both a social and psychological nature.

PSYCH 40 (3) PSYCHOLOGY OF CRISIS COUNSELING

3 Hrs. Lec.

Prerequisite: Psych 1A. A course designed to familiarize the student with a basic understanding of the causes, manifestations and treatment of emotional illness, especially relevant to crisis situations.

PSYCH 41 (3) BEING SINGLE IN A COUPLED SOCIETY

3 Hrs. Lec.

Course participants will examine various issues related to the changing status of single people in contemporary America. Participants will consider the economic, social, and personal differences between being single and being coupled, and will have an opportunity to clarify their own attitudes and choices regarding single vs. coupled.

PSYCH 42 (2) ADJUSTMENT TO THE DISSOLUTION OF MARRIAGE

2 Hrs. Lec.

This course will provide an historical overview of the social, moral, economic, religious, and family changes which have led to an increase in the number of marriages that fail. Attention will be given to the dynamics of a marital breakdown and to the legal process involved. Ambivalence, fear, guilt, depression, loneliness, and other responses will be examined. Social adjustments, including single parenthood, handling peer pressure, dating, re-marriage, and dealing with the ex-spouse will be analyzed. Small group interaction will be used to demonstrate important dynamics. While this course has been designed with the scope and depth of information required by counselors, its organization makes it suitable for those actually involved in the dissolution process. (Same as Soc 42)

PSYCH 46 (3) THE MENTALLY ILL, ALCOHOLIC, DRUG ADDICT AND THE LAW 3 Hrs. Lec.

Prerequisite: Psych 1A is recommended.

An integrated approach to the understanding of laws governing the treatment of the emotionally disturbed individual, alcoholic, and drug addict as seen from the viewpoint of the professional, paraprofessional, law enforcement and the courts. (Same as Law Enf 46)

PSYCH 47 (1) ASSERTIVE TECHNIQUES THEORY AND PRACTICE

1 Hr. Lec.

The class will study assertiveness as the learned ability to express one's feelings and preferences without infringing on the rights of others. The class will be a training/learning experience in constructive communication skills to increase assertive behavior and to work effectively with aggressive individuals. The student will have an opportunity to acquire skills in a non-threatening environment. Practice and observation will supplement specific techniques and theories.

PSYCH 48 (1) ASSERTIVE TECHNIQUES APPLIED 1 Hr. Lec..

This course will emphasize the application of specific assertive techniques and the development of generalized assertiveness as an approach to dealing with others. In-class simulations will provide students practice in applying new communication skills as well as the opportunity to "rehearse" actual situations from their everyday life.

RECREATION

REC 70 (3) INTRODUCTION TO LEISURE 3 Hrs. Lec.

Presents the basic ideas and problems in our contemporary society and projects this thinking into the future when greater amounts of leisure time will be at our disposal. The course shows the need of our citizenry to cope successfully with the pressures of our daily lives and have a balanced and meaningful use of leisure time in maintaining mental and physical health.

REC 71 (3) SOCIAL RECREATION 3 Hrs. Lec.

A theory and activity course designed to present instruction, material, and information necessary to effectively conduct social recreation in clubs, playgrounds, recreation centers, churches and camps. Emphasis is on the social development and integration of individuals into group programs, including planning, programming and conducting social recreation activities.

REC 72 (3) OUTDOOR RECREATION 2 Hrs. Lec. 3 Hrs. Lab.

History, development, principles and trends of organized camping, natural and conservation, and outdoor recreation. Laboratory and field trips, including camping and hiking activities. Practical skills in firecrafts, outdoor cooking and backpacking. Leadership training is camp counseling. Required for recreation majors. (Will not satisfy PE requirement.)

REC 73 (4) RECREATION FOR SPECIAL GROUP 2 Hrs. Lec. 4 Hrs. Lab.

Field work in therapeutic recreation is the community. The special groups emphasis area is dedicated to understanding and serving individuals and group in our society who exhibit special recreational needs. Students must plan for two additional hours by arrangement.

REC 74 (3) INTRODUCTION TO COMMUNITY RECREATION

3 Hrs. Lec.

For recreation majors and non-majors, general orientation to the field of recreation and parks, including a history of the development of the recreation profession, a survey of recreation and leisur services, description and interpretation of recreation as a form of communit service and the nature and scope an significance of leisure and recreation as a social force in contemporary society Emphasis is on the role of the professional leader in a variety of settings.

SOCIAL SCIENCE

SOC SCI 52 (3) INTRODUCTION TO AMERICAN GOVERNMENT

3 Hrs. Lec.

An introduction to the foundations an major characteristics of the governments of the United States and Califonia, stressing the political habits of the American people within a historical setting. This course will meet the graduition requirement in American Institutions at Imperial Valley College, but offered to students who do not intend transfer to senior institutions. Not ope to students with credit in Hist 17AB Poly Sci 1, 2.

SOC SCI 69 (3) PERSONAL FINANCE 3 Hrs. Lec. (Same as Bus 11)

SOCIOLOGY

SOCIOL 1 (3) PRINCIPLES OF SOCIOLOGY 3 Hrs. Lec.

An introductory course to the field of sociology. A study of the characteristics of social life which emphasizes the processes of social interactions that are encountered in everyday living. A study of social structure, social patterns, and social institutions as they relate to life in the United States.

SOCIOL 2 (3) CONTEMPORARY SOCIAL PROBLEMS

3 Hrs. Lec.

This course deals with contemporary social problems and will cover those areas that are currently being defined by our society as problem issues. Emphasis will be given to understanding these problems on the societal level, the group level, and from the standpoint of the individual.

SOCIOL 10 (3) SOCIOLOGY OF MINORITY GROUPS 3 Hrs. Lec.

This course includes the study of the theories of prejudice and discrimination of different groups within American society. It will cover a historical analysis of the problems of these groups and typical areas will include racism, sexism, agism, and ethnic and religious discrimination.

SOCIOL 15 (3) SOCIAL AND PSYCHOLOGICAL DYNAMICS OF DRUG USE

3 Hrs. Lec.

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(Same as Psych 15)

SOCIOL 17 (3) SOCIAL PSYCHOLOGY 3 Hrs. Lec.

(Same as Psych 17)

SOCIOL 33 (3) MARRIAGE AND THE FAMILY 3 Hrs. Lec.

An analysis of factors predictive of successful marital adjustment. Attention focused upon such family processes as courtship, marriage, reproduction, child rearing, and marital dissolution.

SOCIOL 41 (3) MASS SOCIOLOGY AND COLLECTIVE BEHAVIOR 3 Hrs. Lec.

This course will study the formation and evolution of groups and group behavior in varying social settings. The impact of participants, audience and outsiders will be used to examine the reltionships of the individual to the group, groups to each other, and social movements and collective behavior. Problems of social

control and change will be explored as they relate to group behavior, mass crowd behavior, social movements, and riots. (Same as Law Enf 41)

SOCIOL 42 (2) ADJUSTMENT TO THE DISSOLUTION OF MARRIAGE

2 Hrs. Lec.

(Same as Psych 42)

SPANISH

High school Spanish courses may be used to meet the prerequisites of advanced Spanish courses at IVC only if they include training in all four basic language skills: listening, speaking, reading and writing. The courses must have included phonetics, practice in both guided and free conversation as well as in reading aloud; testing in reading and listening comprehension; writing from dictation; and word-picture association. These high school courses will not count as college credit toward graduation. Placement will be made by examination and/or consent of the instructor. Contact the IVC Counseling Center for further information.

The last year course taken by a student in the high school language sequence may be repeated in college for graduation credit, not to exceed four units of repeated foreign language work. For advance placement, at least one course in Spanish must have been taken the year prior to entering college; otherwise, it is suggested that the student enroll in Span 1.

The above requirements may be waived by examination or by consent of the instructor.

SPAN 1 (4) ELEMENTARY SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: The student must be able to speak and read English. Not open to students with native ability in Spanish. (See Span 20A) For additional oral practice, concurrent enrollment in Span 5A is recommended. The beginning Spanish course is based on a contrastive analysis between Spanish and English and is designed to develop in the English-speaking student rudimentary abilities in the four basic language skills: hearing, speaking, reading and writing. The main emphasis is on the present tense of both regular and irregular verbs. The student will be familiarized with those features of Hispanic culture which reflect the different frame of reference from which the native speaker of Spanish views the world around him.

SPAN 1A (2) ELEMENTARY SPANISH 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: The student must be able to speak and read English. This course is one-half the content of the regular Span 1 course. Completion of Span 1A and 1B sequence will be the equivalent of Span 1, and the total of 4 units.

SPAN 1B (2) ELEMENTARY SPANISH 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Span 1A. The student must be able to speak and read English. For additional oral practice, concurrent enrollment in Span 5A is recommended. This course is one-half the content of the regular Span 1 course. Completion of Span 1A and 1B sequence will be the equivalent of Span 1, and the total of 4 units.

SPAN 2 (4) ELEMENTARY SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: The student must be able to speak and read English. The student can be successful in Span 2 only after having achieved all of the minimal performance objectives specified for Span 1. Either a recent course in Span 1 or a recent 2 year high school Spanish course with good retention should enable the student to succeed in Span 2. For additional oral practice, concurrent enrollment in Span 5B is recommended. A continuation of Span 1 with the main emphasis on the imperfect, preterit, present perfect and present subjunctive forms for both regular and irregular verbs.

SPAN 2A (2) ELEMENTARY SPANISH 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: The student must be able to speak and read English. The student can be successful in Span 2A only after having achieved all the minimal performance objectives specified for Span 1A. A recent course in Span 1, 1B or a recent 2 year high school Spanish course with good retention should enable the student to succeed in Span 2A. This course is one-half the content of the regular Span 2 course. Completion of the Span 2A and 2B sequence is the equivalent of Span 2 for a total of 4 units. A continuation of Span 1 or Span 1B.

SPAN 2B (2) ELEMENTARY SPANISH 2 Hrs. Lec. ½ Hr. Lab.

Prerequisites: The student must be able to speak and read English. For additional oral practice, concurrent enrollment in Span 5B is recommended. The student can be successful in Span 2B only after having achieved the minimal performance objectives specified for Span 2A. This course is one-half the content

of Span 2. Completion of the Span 2A and 2B sequence is the equivalent of Span 2. This course is a continuation of Span 2A.

SPAN 3 (4) INTERMEDIATE SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: The student must be able to speak and read English. The student can be successful in Span 3 only after having achieved all of the minimal performance objectives specified for both Span 1 and Span 2. Either a recent course in Span 2 or a recent 3 year high school Spanish course with good retention should enable the student to succeed in Span 3. A continuation of Span 2 covering the uses of all Spanish tenses with special emphasis on the subjunctive and imperative modes.

SPAN 4 (4) INTERMEDIATE SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: The student must be able to speak and read English. The student can be successful in Span 4 only after having achieved all the minimal performance objectives specified for Span 1, 2 and 3. A recent course in Span 3 or the recent completion of 4 years of high school Spanish with good retention should enable the student to succeed in Span 4. A continuation of Span 3 but with greater emphasis on the reading and writing skills. The student will work with all tenses and modes of the Spanish language.

SPAN 5A (2) BEGINNING CONVERSATIONAL SPANISH & CULTURE 2 Hrs. Lec. 1 Hr. Lab.

A course designed to give the transfer student a basic ability in everyday Spanish. The course will emphasize vocabulary-building, conversational skills, listening and comprehension and culture.

SPAN 5B (2) BEGINNING CONVERSATIONAL SPANISH & CULTURE 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Span 5A or by examination. Concurrent enrollment in Span 2 is recommended. A continuation of Span 5A.

SPAN 7 (3) THE SPANISH SOUND SYSTEM 3 Hrs. Lec.

Span 7 emphasizes the sounds of Spanish and of the Spanish phonemic system with special attention to the problems involved in the hearing of Spanish sounds, as well as their articulation.

SPAN 10 (3) INTERMEDIATE CONVERSATIONAL SPANISH

3 Hrs. Lec.

Prerequisites: Span 1 and 2 or by examination. Conversational skills are developed through oral-aural drills, lab work and guided conversation based on selected readings. Not open to students with bilingual or native ability. Student must plan for an additional hour of individual language laboratory by arrangement.

SPAN 11 (3) ADVANCED CONVERSATIONAL SPANISH

3 Hrs. Lec.

Prerequisite: Span 3 or 10. Continuation of Span 10.

SPAN 12 (2) ADVANCED CONVERSATIONAL SPANISH

2 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 11 or consent of instructor. Continuation of Span 11. Conversational skills developed through selected topics from text, newspapers, magazines, interviews and skits. Not open to students with native ability in the language.

SPAN 17 (3) MEXICAN POPULAR FOLK ARTS 3 Hrs. Lec.

(Same as Hum 17)

SPAN 18 (3) INTERMEDIATE SHORTHAND FOR BILINGUALS

2 Hrs. Lec. 3 Hrs. Lab. (Same as Bus 36)

SPAN 19 (3) BUSINESS CORRESPONDENCE IN SPANISH

3 Hrs. Lec.

Recommended for bilingual students with Business 42 or equivalent. Practice in letter form and style, business vocabulary, spelling, and punctuation. Emphasis on differences and similarities in English and Spanish business correspondence. (Same as Bus 43)

SPAN 20A (4) BILINGUAL SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Spanish speaking fluency, native or near native or 3 years of high school Spanish. The course is designed to develop in the student the four basic language skills of listening, speaking, reading and writing with a constant comparison between Spanish and English usage. Emphasis will be on the indicative tenses: present, preterit, imperfect and future. These skills will be explored through readings in the contemporary culture of Spain, Latin Amer-

ica and the Spanish speaking commur ties in the United States - Mexica Cuban, Puerto Rican and Sephardic.

SPAN 20B (4) BILINGUAL SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 20A or four years high school Spanish. Continuation Span 20A. Emphasis on the condition and the subjunctive forms.

SPAN 21 (4) INTERMEDIATE BILINGUAL SPANIS 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 20B or four years high school Spanish. Designed to divelop in the bilingual student, languag proficiency, with special attention to the usage of the various styles - formal, rigional and colloquial. Emphasis on wring skills, punctuation and gramm review.

SPAN 22 (4) ADVANCED BILINGUAL SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 21 or four years high school Spanish. Continuation Span 21. Emphasis will be placed upoadvanced grammar review of the conditional and the subjunctive forms, vocal ulary building, translating, oral arwritten composition.

SPAN 23 (3) BILINGUAL ORAL SPANISH 3 Hrs. Lec.

Prerequisites: Span 20A and 20B of three years of high school Spanish. A intensive course in oral Spanish for steedents who have learned Spanish as native language. It is intended for steedents who may read well and have good grammar but need more practice in or structures. This course will include brief grammar review and discussion relevant everyday topics of social concern. Concurrent enrollment in Spa 20B is recommended.

SPAN 24 (3) INTRODUCTION TO SPANISH LITERATURE

3 Hrs. Lec.

Prerequisites: Span 22 or 4 years of hig school Spanish or equivalent. Introdutory survey of representative mov ments, authors and works of Spanis literature from the Middle Ages to tl present. Concurrent enrollment in Spa 40/Hist 40 is recommended. Cours conducted in Spanish.

SPAN 25 (3) INTRODUCTION TO SPANISH AMERICAN LITERATURE

3 Hrs. Lec.
Prerequisites: Span 22 or 4 years of hig school Spanish or equivalent. Introdu tory survey of representative mov ments, authors and works of Spani American literature from the Spanish Discovery to the present. Concurrent enrollment in Span 41 is recommended. Course conducted in Spanish.

SPAN 28A (3) THE MEXICAN AMERICAN IN LITERATURE 3 Hrs. Lec. (Same as Eng 30A)

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SPAN 28B (3) THE MEXICAN AMERICAN IN LITERATURE 3 Hrs. Lec.

(Same as Eng 30B) SPAN 40 (3)

CIVILIZATION OF SPAIN AND PORTUGAL
3 Hrs. Lec.

A survey course on the civilization of Spain and Portugal. Topics include: geography, history, art history and appreciation, sociology, psychology, music, foods, folklore, religion, current events. These will provide a panoramic view of the way of life of the Spanish and Portuguese people and will help the student understand two cultures that have influenced millions of people throughout the world. Illustrated lectures. From prehistory to the 20th Century. Course conducted in English. (Same as Hist 40)

SPAN 41 (3) CIVILIZATION OF SPANISH AMERICA AND BRAZIL

3 Hrs. Lec.
An interdisciplinary survey of the history, culture, traditions and artistic contributions of the indigenous European and African heritage of Spanish America and Brazil. From prehispanic times to the present. Course conducted in English. (Same as Hist 41)

SPAN 42 (3) INTRODUCTION TO MEXICAN AMERICAN STUDIES 3 Hrs. Lec.

An interdisciplinary survey of the historical role, culture, values and artistic contributions of the Mexican Americans to the United States. From 1836 to the present. Course conducted in English.

SPAN 43 (3) HISTORY AND CULTURE OF THE PHILIPPINES

3 Hrs. Lec.

A survey of the history, culture, traditions and artistic contributions of the Filipinos. Special emphasis on the economic, social and historical background from the prehispanic period to the present.

SPAN 52 (2) BEGINNING CONVERSATIONAL SPANISH AND GUITAR 2 Hrs. Lec. 1 Hr. Lab.

Basic conversational Spanish for stu-

dents with little or no previous instruction in the language. Presentation of elementary structures and vocabulary. Designed for communication on everyday matters. A portion of the instructional period will be devoted to acquaint the student with a basic accompaniment on the guitar of popular Mexican folk songs.

SPAN 53 (2) BEGINNING GUITAR AND MEXICAN FOLK SONGS FOR SPANISH SPEAKERS

2 Hrs. Lec. 1 Hr. Lab.

Study of basic guitar chords used in traditional Mexican folk songs with a brief introduction to the history and background of the origins of each selection. Study of contemporary songs by modern composers and their growing popularity among all classes in Mexico. Practice and drill in playing the guitar and singing.

SPAN 54A (2)
BEGINNING CONVERSATIONAL
SPANISH FOR CAREERS
2 Hrs. Lec. 1 Hr. Lab.

A course designed to give the beginning student of Spanish a basic vocabulary, conversational skills, listening comprehension and basic grammatical generalizations to be used in the student's career field. Possible career subtitles include, but are not limited to, Medical, Business, Law Enforcement, School Personnel. These subtitles will be listed in the schedule of classes. Students must plan for an additional hour of individual language laboratory by arrangement.

SPAN 54B (2)
BEGINNING CONVERSATIONAL
SPANISH FOR CAREERS
2 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 54A or equivalent. Second of two courses offering basic Spanish oriented toward a specific career. The course features extensive oral drills and role playing in career situations. Students must plan for an additional hour of individual language laboratory by arrangement.

SPAN 60AC (1-1-1) LANGUAGE LABORATORY

2 Hrs. Lab.

Prerequisite: Current enrollment in ESL, French or Spanish language course. Individualized language laboratory. Practice in listening comprehension and pronunciation. Supplementary course for beginning and intermediate levels in ESL, French and Spanish. Thirty-six hours of assigned lab work. (Same as Eng 60AC and Fr 60AC)

SPAN 80 (1)
ORIENTATION FOR TRAVEL IN
MEXICO
2 Hrs. Lec.

Course designed specifically for per-

sons planning a trip to Mexico. The course will touch on all of the aspects of Mexican life — history, geography, language, culture — in order to enhance and make a trip to Mexico more enriching. Included will be intensive drill on phrases essential to the traveler in Mexico as well as information on prices, visa requirements, recommended hotels, methods of travel, places of interest, and shopping trips. The course will consist of lectures, discussions, filmstrip presentations, and field trips.

SPAN 81 (1) TRAVEL IN MEXICO 1 Hr. Lec.

Prerequisite: Span 80. Field excursion to areas in Mexico to practice the Spanish language and to acquaint the student with Mexican culture and everyday life in an authentic setting. An introduction to travel, accommodations and tourist sites available to tourists in Mexico.

SPECIAL STUDIES

SPECIAL STUDIES 51 or 81 (1-3) VOCATIONAL EDUCATION Hours by arrangement

SPECIAL STUDIES 52 or 82 (1-3) HUMANITIES Hours by arrangement

SPECIAL STUDIES 53 or 83 (1-3) ENGLISH Hours by arrangement

SPECIAL STUDIES 54 or 84 (1-3) NATURAL SCIENCE Hours by arrangement

SPECIAL STUDIES 55 or 85 (1-3) SOCIAL SCIENCE Hours by arrangement

SPECIAL STUDIES 56 or 86 (1-3) BUSINESS Hours by arrangement

SPECIAL STUDIES 57 or 87 (1-3)
HEALTH, PHYSICAL EDUCATION,
AND RECREATION
Hours by arrangement

SPECIAL STUDIES 58 or 88 (1-3) BEHAVIORAL SCIENCE Hours by arrangement

SPECIAL STUDIES 51-88 COURSE DESCRIPTION

Course content, prerequisites, and unit credit to be determined by the Division and the Office of Instruction in relation to community-student interest and available staff. Not offered every semester. Courses numbered 81-88 are non-transferable.

SPEECH

SP 1 (3) **ORAL COMMUNICATION** 3 Hrs. Lec.

Training in the fundamental processes involved in oral communication with emphasis on organizing material, outlining, constructing, and delivering various forms of speeches.

SP 2 (3) INTERMEDIATE PUBLIC SPEAKING 3 Hrs. Lec.

Prerequisite: Sp 1. A continuation of Sp 1 with particular emphasis on organization and delivery, and study in the areas of parliamentary procedure, debate, discussion, and oral reading.

SP 10 (3) **ARGUMENTATION AND DEBATE** 3 Hrs. Lec.

Prerequisite: Sp 1, taken previously or concurrently. An introduction to the problems of evidence and inference, with emphasis on the application of logic to rational discussion of social problems.

SP 11 (3) ORAL INTERPRETATION -READERS THEATRE

3 Hrs. Lec.

Discovering and imparting, vocally, intelligent and emotional meanings of the printed page.

SP 12ABCD (1-1-1-1) **FORENSICS**

1 Hr. Lec.

Prerequisites: Eligibility for Eng 1A and permission of the instructor. Sp 1 and 2 recommended. Enrollment contingent upon participation in forensic or competitive speech activities as a member of the IVC Speech Team. Student must be prepared to meet the following: 1) be present for at least 15 regular sessions with instructor during the semester (by arrangement with instructor); 2) be prepared to attend at least two forensic meets during the semester.

SP 30 (3) **VOICE AND ARTICULATION** DEVELOPMENT 3 Hrs. Lec.

Satisfies the requirement of voice and diction for pathology majors. It is recommended for those planning careers in elementary education, special education, early childhood education and bilingual education majors. Enables the student to develop a pleasant voice and manner of expression. The various problems of voice and diction are presented, including the physiology of voice production and phonetics. Drills for the improvement of the student's voice are presented. Recommended for bilingual students to improve their articulation and English language usage.

TEACHER AIDE

TA 1 (3) INTRODUCTION TO INSTRUCTIONAL ASSOCIATE 3 Hrs. Lec.

Introductory course for students interested in a career as an Instructional Associate. Brief overview of philosophies, ideals, goals, directions, problems, and issues in public education today. Organization of school systems; legal aspects of teaching, career opportunities; credentialing and degree-certificate requirements. Defines terminology, clerical and mechanical skills, role in the classroom; review duties and responsibilities, and relationships with students and school personnel. For students planning to become Instructional Associates in elementary school.

TA 3 (3) **PSYCHOLOGY OF PERSONAL AND** SOCIAL ADJUSTMENT

3 Hrs. Lec.

(Same as Psych 3)

TA 4 (3) **BILINGUAL-MULTICULTURAL CURRICULUM AND INSTRUCTION** 3 Hrs. Lec.

Prerequisite: TA 1 preferred. A history of the development of goals and philosophy of Bilingual-Multicultural Education. A study of various implemented programs and the role of the instructional aide in a bilingual-multicultural classroom. Also includes the techniques of teaching both Spanish and English as a second language. Includes the development and use of bilingual-multicultural materials in various subject areas and the methods of teaching all subject areas in the bilingual-multicultural classroom. (Same as ECE 4)

TA 6 (3) LANGUAGE DEVELOPMENT FOR YOUNG CHILDREN

3 Hrs. Lec.

Introduction to basic language art skills of listening, speaking, reading, and writing. Experiences in use of children's literature, reading methods, and reading games. An emphasis on learning environments which are conducive to oral language development, puppetry, drama, and poetry. Students will learn to develop learning centers related to language development. (Same as ECE 6)

TA 8 (3) MATHEMATICS FOR YOUNG CHILDREN

3 Hrs. Lec.

Prerequisite: TA 1. An understanding how mathematics and number concep develop in children. An experiment approach to mathematics through maapplied in the real world. Aspects Montessori materials and math games teaching math. Understanding of ele mentary concepts of the real number system, numeration systems, mathe matical sets, philosophy of moder mathematics. Emphasis on providir most effective techniques for instruction of young children. (Same as ECE 8)

TA 9 (3) FIELD EXPERIENCE 1 Hr. Lec. 10 Hrs. Lab.

Supervised field work with young chi dren. Provides practical opportunities apply knowledge, methods, and skills a school setting. Seminars cover exper ences, discussion of common problem exchange of ideas, techniques ar materials. Students may do their stude teaching at the school where they a employed.

TA 24 (3) CREATIVE LEARNING EXPERIENCE FOR YOUNG CHILDREN

3 Hrs. Lec.

(Same as ECE 24, Psych 24)

WATER TREATMENT TECHNOLOG

WT 1 (4) WATER TREATMENT PLANT **OPERATOR I**

3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Math 51 or satisfacto score on math placement test. Th course will provide information needs to operate a basic fresh-water treatme plant as efficiently as possible. Cour will consist of start-up operation, da operation, interpretation of laborato results, and possible approaches solving operational problems.

WT 2 (4) WATER TREATMENT PLANT **OPERATOR II**

3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: WT 1. Study of fresh-wa maintenance, safety, sampling, labor tory procedures, hydraulics, reconanalysis and presentation.

WT 3 (4) WASTE WATER TREATMENT I 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Math 51 or satisfacte score on math placement test. T course will provide information need to operate a waste-water treatment pla as efficiently as possible. Course

consist of start-up operation, daily operation, interpretation of laboratory results, and possible approaches to solving operational problems.

WT 4 (4) WASTE WATER TREATMENT II 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: WT 3. Study of waste-water maintenance, safety, sampling, laboratory procedures, hydraulics, records, analysis and presentation.

WT 5 (3) WATER-BORNE DISEASES 3 Hrs. Lec.

This course is designed to give water and waste water treatment plant operators a general knowledge of the procedures and factors involved in the prevention and control of water-borne diseases. The subjects covered are: Water-borne Diseases; Water Sources and Impurities; Standards; Elementary Biology and Microbiology; Basic Hydraulics and Hydrostatics; Treatment; Cross Connections; Sampling; Bacteriological Tests Commonly Used in Water Sanitation.

WT 6 (3) COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT OPERATOR I

3 Hrs. Lec.

This course is designed to give water and waste water treatment operators a general knowledge of basic mathematics as applied to treatment plant operations. The subjects covered are: calculation of treatment plant problems; fractions; decimals; percentages; ratio; proportions; averages; areas; volumes; metric system conversions; and estimation.

WT 7 (3) COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT OPERATOR II

3 Hrs. Lec.

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Prerequisite: WT 6. This course is designed to give water and waste water treatment operators a general knowledge of basic mathematics as applied to treatment plant operations. The subjects covered are: mathematics pertaining to wastewater collection; preliminary treatment; primary treatment; secondary treatment; trickling filters; secondary clarifiers, and activated sludge.

WT 8 (3) COMPUTATIONAL PROCEDURES FOR TREATMENT PLANT OPERATOR !!!

3 Hrs. Lec.

Prerequisite: WT 7. This course is designed to give water and waste water treatment operators a general know-

ledge of basic mathematics as applied to treatment plant operations. The subjects covered are: sludge treatment and disposal; sludge pumping; digester seeding; digester loading; volatile acids/alkalinity ratio; effluent treatment and disposal; chlorination; sand filtration; disposal by dilution and laboratory calculations.

WELDING TECHNOLOGY

WELD 30 (3) ARC WELDING

2 Hrs. Lec. 3 Hrs. Lab.

Theory, practice and application of arc welding processes. Flat, horizontal, vertical and overhead positions. Mild steel, stainless steel and cast iron. Electrode classification and application. Joint design and mechanical testing.

WELD 32 (3) OXY-ACETYLENE WELDING 2 Hrs. Lec. 3 Hrs. Lab.

Theory, practice and application of joining metals by the oxy-acetylene process. Includes metal cladding, cutting and bronze welding.

WELD 34 (3) INERT GAS SHIELDED ARC WELDING 2 Hrs. Lec. 3 Hrs. Lab.

Theory, practice and application of Tungsten-Inert-Gas processes on aluminum, stainless steel, mild steel, and other exotic metals.

WELD 36A (3) ADVANCED WELDING

2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Weld 30 and Weld 32 or approval of the instructor. A concentrated course in Shielded Metal Arc Welding (SMAW) where the student develops his welding skill to a professional entry level on flat plate in all positions. Includes a review of Oxy-Acetylene cutting.

WELD 36B (3) ADVANCED WELDING 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Weld 36A or by permission of instructor. Emphasis is in the field of metal fabrication with concentration on design, layout, fitting, and welding of metal projects. Advanced forms of Arc, Tig, Mig, and Gas welding are included with a study of the mechanisms of welding equipment.

WELD 36C (3) ADVANCED WELDING

2 Hrs. Lec. 3 Hrs. Lab. Prerequisites: Weld 36

Prerequisites: Weld 36B or by permission of instructor. Emphasis is in the field of the study of metals and metal-lurgy of welds. Studies are concentrated

on the testing of metals, the atomic structure of metals, the effects of heat on metals, and the effects of welding on metals.

WELD 38 (3) SHEET METAL FUNDAMENTALS 2 Hrs. Lec. 3 Hrs. Lab.

Theory and practice in the fundamentals of planning, layout, pattern development and fabrication of flat sheet metal into useful products.

WELD 50 (3) SHOP MATHEMATICS 3 Hrs. Lec. 2 Hrs. Lab.

(Same as Ag 50, Auto Tech 50, Math 50 and PL 50)

WELD 75 (3) INTRODUCTION TO INDUSTRIAL/ AUTOMOTIVE SKILLS 3 Hrs. Lec.

(Same as Auto Tech 75/Ag 75)

COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience Education is a cooperative educational program by Imperial Valley Community College and the community employers. It is an approved program of activities and objectives which is evaluated by the college. The college provides the organization, the class facilities and the personnel to coordinate the program. The employers provide places to work (work stations) and on-the-job training which has educational value for the students. Sixteen units of work experience education may be allowed toward graduation with the Associate Degree. All students are required to be entered in a certificate or degree program. General work experience courses are not approved for veteran's benefits.

WE GEN 70 (3) PERSONAL EFFICIENCY 1 Hr. Lec. 10 Hrs. Lab.

Emphasis is placed on the capacity and efficiency of accomplishing designated tasks, securing an appropriate position and increasing efficiency with work progress. Laboratory work will be arranged with the employer. The work may be in any occupation but must have educational value for the student.

WE GEN 71 (3) MOTIVATION

1 Hr. Lec. 10 Hrs. Lab.

Motivation is studied from the employees and employers perspective. Personal leadership development and improvement is emphasized. Laboratory work will be arranged with the employer. The work may be in any occupation but must have educational value for the student.

WE GEN 72 (3) LABOR AND THE ECONOMY 1 Hr. Lec. 10 Hrs. Lab.

Labor and management relationships are discussed. The effect of government on labor and the economy is emphasized. Employee procurement, collective bargaining and the labor movement is part of the instruction. Laboratory work will be arranged with the employer. The work may be in any occupation but must have educational value for the student.

WE GEN 73 (3) LAWS AFFECTING EMPLOYEES 1 Hr. Lec. 10 Hrs. Lab.

Labor laws that affect the welfare and security of employees are emphasized. Industrial welfare, unemployment insurance, workman's compensation, social security and taxes are among laws discussed. Laboratory work will be arranged with the employer. The work may be in any occupation but must have educational value for the student.

WE OCC 80 (4) PERSONAL EFFICIENCY 1 Hr. Lec. 15 Hrs. Lab.

Emphasis is placed on the capacity and efficiency of accomplishing designated tasks, securing an appropriate position and increasing efficiency with work progress. Laboratory work will be arranged with employer. The work must be in the field of the student's planned course of occupational training.

WE OCC 81 (4) MOTIVATION

1 Hr. Lec. 15 Hrs. Lab.

Motivation is studied from the employee's and employer's perspective. Personal leadership development and improvement is emphasized. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

WE OCC 82 (4) LABOR AND THE ECONOMY 1 Hr. Lec. 15 Hrs. Lab.

Labor and management relationships are discussed. The effect of government on labor and the economy is emphasized. Employee procurement, collective bargaining and the labor movement is part of the instruction. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

WE OCC 83 (4) LAWS AFFECTING EMPLOYEES 1 Hr. Lec. 15 Hrs. Lab.

Labor laws that affect the welfare and security of employees are emphasized.

Industrial welfare, unemployment insurance, workman's compensation, social security and taxes are among laws discussed. Laboratory work will be arranged with the employer. The work must be in the field of the student's planned course of occupational training.

ZOOLOGY

ZOOL 1A (4) GENERAL ZOOLOGY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Any year course in a high school laboratory science or the equivalent. Introduction to basic principles of animal biology with reference to structure, functions, classification, heredity, and the environment of animals in general and of invertebrates in particular.

ZOOL 1B (4) GENERAL ZOOLOGY

2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Zool 1A. Continuation of Zool 1A with emphasis upon comparative anatomy and physiology, development of vertebrate forms and their interrelationships.

ZOOL 10 (3) LIFE OF THE PAST: AN INTRODUCTION TO PALEONTOLOGY 3 Hrs. Lec. (Same as Geol 10)

MAJORS

Generally, 18 units of specified course work will satisfy the requirement for the major. However, some majors will require more than 18 units. Please note the specified number of required units at the beginning of each major description.

The following definitions apply to the major descriptions shown in this catalog:

- Required courses are the specific courses which must be taken to fulfill the requirements in an area of study.
- Acceptable courses are those from which the student may select in order to meet the total units requirement. The total number of units from the required course list, plus the number of units selected by the student from the acceptable course list must equal at least the total unit count required for the major.
- Courses recommended as electives are beyond the major's requirement. These courses are suggested only, and selection from this list depends upon the student's individual desire and the total number of electives available within his own program.

Students may satisfy the major requirements in the following fields of study:

AGRICULTURAL BUSINESS

Twenty-four units required for the major

1. F	Required	courses	for	the	maior	
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Ag 14	Entomology(3)
Ag 25	Agricultural Bus. Management (3)
Ag 27	Agricultural Sales and Service
	Management(3)
Ag 40	Soils (3)
Ag 41	Fertilizers(3)
Ag 49	Weeds and Weed Control (3)

 Acceptable courses for the major (6 units from the following courses)

Ag 26	Agricultural Business Organization and Management(3)
Ag 45	Vegetable Production(3)
Bus 4	Principles of Marketing (3)
Bus 5A	Business Law(3)
Bus 10A	Practical Bookkeeping(3)
Bus 23	Office Machines(3)
WE Occ 80	Personal Efficiency(4)
WE Occ 81	Motivation
WE Occ 82	Labor and the Economy(4)
WE Occ 83	Laws Affecting Employees (4)

AGRICULTURAL CHEMICAL TECHNOLOGY

Twenty-two units required for the major

I. Required courses for the major

1.5	ž
Ag 14	Entomology(3)
Ag 28	Heavy Equipment Operation
	and Maintenance(5)
Ag 40	Soils (3)
Ag 41	Fertilizers(3)
Ag 49	Weeds and Weed Control (3)

11.	Acceptable courses t	for the	major	(5 units	from the fe	ol-
	lowing courses)					

Ag 30	Agricultural Mechanics(3)
Ag 32	Irrigation and Drainage(3)
Ag 33A	Farm Power(5)
Ag 37	Small Gasoline Engines(3)
Ag 45	Vegetable Production(3)
Ag 65	Control of Insects & Other Pests (3)
Bot 1A	General Botany (4)
Chem 2A	Introduction to Chemistry (4)
Eng 7	Technical and Report Writing (3)
WE Occ 80	Personal Efficiency(4)
WE Occ 81	Motivation
WE Occ 82	Labor and the Economy (4)
WE Occ 83	Laws Affecting Employees (4)
Weld 30	Arc Welding (3)
Weld 32	Gas Welding

AGRICULTURAL MECHANICS

Twenty-two units required for the major

I. Required courses for the major

Ag 28	Heavy Equipment Operation
-	and Maintenance(5)
Ag 30	Agricultural Mechanics (3)
Ag 33A	Farm Power(5)
Weld 30	Arc Welding(3)
Weld 32	Oxy-Acetylene Welding(3)

 Acceptable courses for the major (3 units from the following courses)

Ag 33B	Farm Power (5)
Ag 35	Fluid Power
Ag 36	Agricultural Construction(3)
Ag 37	Small Gasoline Engines (3)
Ag 38	Electricity on the Farm(3)
Ag 50	Shop Mathematics(3)
WE Occ 80	Personal Efficiency(4)
WE Occ 81	Motivation
WE Occ 82	Labor and the Economy (4)
WE Occ 83	Laws Affecting Employees (4)

ANIMAL SCIENCE

Twenty-two units required for the major

Required courses for the major

Ag 20	Animal Science(3)
Ag 21	Feeds and Feeding (3)
Ag 22	Livestock Selection(3)
Ag 23	Animal Diseases(3)
Ag 24	Horse Husbandry(3)

II. Acceptable courses for the major (7 units from the following courses)

Ag 14	Entomology(3)
Ag 28	Heavy Equipment Operation
	and Maintenance(5)
Ag 30	Agricultural Mechanics (3)
Ag 33A	Farm Power
Ag 42	Plant Science & Forage Crops (4)
Ag 64	Horsemanship-Equitation(1)
Ag 66	Intermediate Horsemanship-
-	Equitation (1)
Chem 2A	Introduction to Chemistry (4)
WE Occ 80	Personal Efficiency(4)
WE Occ 81	Motivation
WE Occ 82	Labor and the Economy (4)
WE Occ 83	Laws Affecting Employees(4)

Arc Welding(3)

Oxy-Acetylene Welding(3)

Weld 30

Weld 32

		ANTHROPOLOGY		Art 29B	Jewelry(3
Tw	enty-seven unit	s required for the major		Art 23A	Ceramics
		rses for the major		Art 26 Art 31	Design in Crafts
100	Anthro 1 Anthro 2	Physical Anthropology(3) Cultural Anthropology(3)			Introduction to Stained Glass (3 first semester if possible to allow for se
	Anthro 3A Anthro 3B	Intro. to Arch. Site Surveying (3) Intro. to Arch. Excavations (3)	que	ence of Art 20B	3, Art 21AB, and Art 25AB.
	Anthro 4 OR	California Indians		AUT	OMOTIVE TECHNOLOGY
	Anthro 11 Geog 1	Indians of Southern California (3) Physical Geography			1 units required for the major
H.		ourses for the major (minimum of 9 units	1.		rses for the major
		the following courses)			Shop Mathematics (if required) (3 Engine Technology, or equivalent . (5
	Anthro 3C	Advanced Arch. Survey(3)		Auto Tech 52	Manual Transmissions and
	Anthro 3D Anthro 5	Advanced Arch. Excavations (3) Archaeology: Theory, Prehistory			Power Trains(3)
	Anthro 6	and Laboratory(3) Indians of North America(3)		Auto Tech 53	Brakes and Suspension
	Anthro 7	Classic Civilizations of Pre-Historic		Auto Tech 55	Exhaust Systems
	Anthro 8	Meso America(3) Indians of the Southwest(3)		Auto Tech 60	Electrical, Starting, Charging, Ignition and Related Electrical Systems (3)
	Anthro 9	Mexican American Cultural Traditions	JI.	Acceptable co	ourses for the major
	Anthro 10	Ethnobotany of Imperial County (1)		Auto Tech 56	Diagnostics(3)
	Anthro 11	Indians of Southern California (3)		Auto Tech 57	Fluid Power(4)
100	Anthro 12	Ethnography of the Yuman Indians (2)		Auto Tech 59	Automotive Air-Conditioning (3) Small Gasoline Engines (3)
		(2)		Auto Tech 61	Automatic Transmissions(3)
		ART		Weld 30 Weld 32	Arc Welding(3) Oxy-Acetylene Welding(3)
Twenty-four units required for the major				AUTOMOTIV	E BODY REPAIR AND PAINTING
ı.	Required cours	es for the major	Torre	nntu fa to 07	TOTAL AND
		•	I W	SHILV-TOUR TO 97	units required for the major
	Art 22A	Design(3)			units required for the major
	Art 22B	Design (3) Design (3)		Required cour	ses for the major
	Art 22B *Art 20A	Design (3) Design (3) Drawing (3)		Required cour Auto Body 70	rses for the major Auto Body Repairing & Painting (5) Advanced Auto Body Repairing
	Art 22B *Art 20A (Minimum of 6	Design (3) Design (3) Drawing (3) S units from the following courses)		Required cour Auto Body 70 Auto Body 71	rses for the major Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B	Design		Required cour Auto Body 70 Auto Body 71 Auto Body 72	rses for the major Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting
	Art 22B *Art 20A (Minimum of 6 Art 3A	Design		Required cour Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4	Design		Required cour Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co	Design		Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude	Design		Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable con	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable coolowing list may lent of Auto Body 72	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable colowing list may lent of Auto Body (two years of Matter St.)	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the followy be accepted as major credit if the equivality of the property of the second of the property of the pro
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 61 Auto Tech 51 Auto Tech 54	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the folly be accepted as major credit if the equivality 70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body fixed by the second by the	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the folly be accepted as major credit if the equivality 70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested grow Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 61 Auto Tech 51 Auto Tech 54 Auto Tech 58	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the foly be accepted as major credit if the equivalody 70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21B Art 25A Art 25B	Design	l.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable coolowing list may lent of Auto Body 10 Auto Tech 51 Auto Tech 54 Auto Tech 58 WE Weld 34	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the follow be accepted as major credit if the equivality 70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics	Design	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable coolowing list may lent of Auto Body 72 Auto Tech 51 Auto Tech 51 Auto Tech 54 Auto Tech 58 WE Weld 34	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the followy be accepted as major credit if the equivality 70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested grow Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics Art 23A	Design	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 12 Auto Tech 51 Auto Tech 54 Auto Tech 54 Auto Tech 58 WE Weld 34 BANKING- enty-three units	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the following to the accepted as major credit if the equivality 70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3) —ADMINISTRATIVE SERVICES
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics Art 23A Art 23B Art 23C	Design	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 12 Auto Tech 51 Auto Tech 54 Auto Tech 54 Auto Tech 58 WE Weld 34 BANKING- enty-three units	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the followy be accepted as major credit if the equivaled y70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3) —ADMINISTRATIVE SERVICES serequired for the major
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics Art 23A Art 23B Art 23C Art 24AB	Design	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 71 Auto Tech 51 Auto Tech 54 Auto Tech 54 Auto Tech 58 WE Weld 34 BANKING- enty-three units Required cour Bus 1A	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics Art 23A Art 23B Art 23C Art 24AB Art 28	Design	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 71 Auto Tech 51 Auto Tech 54 Auto Tech 54 Auto Tech 58 WE Weld 34 BANKING- enty-three units Required cour	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the followy be accepted as major credit if the equivaled y70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3) —ADMINISTRATIVE SERVICES serequired for the major Principles of Accounting (4) Principles of Accounting (4) Principles of Accounting (4)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics Art 23A Art 23B Art 23C Art 24AB Art 28 Crafts	Design (3) Design (3) Drawing (3) Drawing (3) Bunits from the following courses) History & Appreciation of Art (3) History & Appreciation of Art (3) History & Appreciation of Art (3) History & Appreciation of Modern Art (3) urses for the major (9 units from the foltons may also take courses from any of the ups. Watercolor Painting (3) Watercolor Painting (3) Drawing (3) Painting (3) Painting (3) Life Drawing (3) Life Drawing (3) Ceramics (3) Ceramics (3) Ceramics (3) Ceramics (3) Ceramics (3) Ceramic Sculpture (3-3) Technical Ceramics (3)	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 72 Auto Tech 51 Auto Tech 54 Auto Tech 58 WE Weld 34 BANKING- enty-three units Required court Bus 1A Bus 1B Bus 6	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the folly be accepted as major credit if the equivality of the school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3) —ADMINISTRATIVE SERVICES see for the major Principles of Accounting (4) Principles of Accounting (4) Management Concepts of Supervision (3)
	Art 22B *Art 20A (Minimum of 6 Art 3A Art 3B Art 4 Acceptable co lowing areas) courses. Stude suggested gro Painting Art 18A Art 18B Art 20B Art 21A Art 21B Art 25A Art 25B Ceramics Art 23A Art 23B Art 23C Art 24AB Art 28	Design	I.	Auto Body 70 Auto Body 71 Auto Body 72 Auto Tech 50 Auto Tech 53 Weld 30 Weld 32 Acceptable collowing list may lent of Auto Body 71 Auto Tech 51 Auto Tech 54 Auto Tech 58 WE Weld 34 BANKING- enty-three units Required court Bus 1A Bus 1B	Auto Body Repairing & Painting (5) Advanced Auto Body Repairing and Painting (5) Auto and Light Truck Major Collision Repairing (5) Shop Mathematics (if required) (3) Brakes and Suspension (3) Arc Welding (3) Oxy-Acetylene Welding (3) urses for the major (five units from the followy be accepted as major credit if the equivaled y70 has been completed in high school high school auto body). Engine Technology, or equivalent (5) Electrical and Fuel Systems (3) Automotive Air-Conditioning (3) Cooperative Work Experience (4) Inert Gas Shielded Arc Welding (3) —ADMINISTRATIVE SERVICES serequired for the major Principles of Accounting (4) Principles of Accounting (4) Principles of Accounting (4)

_				-	West Control of the C
11.	Acceptable co	ourses for the major (select a minimum of	n.	Acceptable courses)	courses for the major (select any two
	Bus 5A Bus 42 Econ 1 Sp 1	Business Law		Sp 1 Bus 7 Bus 39 Bus 41	Oral Communication
	BANKIN	G-CREDIT ADMINISTRATION		Bus 50	Introduction to Data Processing (3)
Tw	enty-three unit	s required for the major	*1	Minimum skill le	vel 40 words per minute required to qualify
l.	The State of the S	rses for the major	f		I level attained in Bus 21A, student is ex-
	Bus 1A Bus 1B Bus 60 Bus 61	Principles of Accounting)	ear of high sch	substituted if student has completed one lool bookkeeping.
	Bus 62	Installment Credit (3)	***		ank tellers, file clerks, bookkeepers, etc. or secretarial staff members.
II.	Acceptable of 6 units) Bus 5A Bus 7 Bus 42 Bus 63 Bus 64 Econ 1A Sp 1	Business Law	sat tra	e requirement frisfied by taking ting in the follo	remarks of the following list, concentrates for the major in Behavioral Science may be 18 units from the following list, concentrates for the major for the
	B	ANKING-SECRETARIAL		Psychology	
	10 No. 10 No. 10	units required for the major		Psych 1A Psych 1B Psych 2	General Psychology
ı.	Bus 5A	rses for the major Business Law(3)		Psych 2 Psych3/TA 3	Psychology of Personal and Social Adjustment(3)
	Bus 21AB Bus 32AB Bus 40 OR Bus 41 OR Bus 42 Bus 60	Proficiency-Exit Typing* (2-2) Dictation & Transcription Lab** (3-3) Grammar and Usage Essentials of Business Correspondence Business Correspondence		Psych 9/HR 9 Psych 11AB/ HR 11AB Psych 12/ Bus 26/Math 12 Psych 14 Psych 16	
H.	Acceptable co	ourses for the major (6 units from the fol-		Psych 17/	Relationships(3)
	Sp 1 Bus 7 Bus 23 Bus 39 Bus 50	Oral Communication		Sociol 17 Psych 20/ ECE 20 Psych 22/ ECE 22 Psych 27/	Social Psychology
q	ualify for major xcused from B			Psych 30 Psych 35	Students
q		evel of 90 words per minute required to the transfer of the t		Sociology Sociol 1	Principles of Sociology(3)
	***RANKI	NG-GENERAL OPERATIONS		Sociol 2 Sociol 17/ Psych 17	Contemporary Social Problems (3) Social Psychology
Τw		units required for the major		Sociol 33	Marriage and the Family(3)
	1170 - 1270	rses for the major	II.	Recommended ments)	d as electives (do not fulfill major require-
••	Bus 5A Bus 10A	Business Law		Bio 3 Jrn 3	Principles of Biological Science (4) Mass Communication(3)
	Bus 21AB Bus 23 Bus 40 Bus 60	Proficiency-Exit Typing* (2-2) Office Machines (3) Grammar and Usage		Psych 11AB/ HR 11AB Psych 15/ Sociol 15	Practicum

	Psych 21/	Early Childhood Socialization:		Bus 3	Business Management(3)
	ECE 21	Children, Family & Community (3)		Bus 6	Management Concepts of
	Psych 26/	SEC DI 20 SCHOOLSY MAI LASS CONTROL			Supervision
	ECE 26	Psychology of Parenthood (3)		Bus 7	Human Relations in Mangement (3)
	Psych 36	Psychology of Human Sexuality (3)		Bus 10A	Practical Bookkeeping(3)
	Psych 40	Psychology of Crisis Counseling (3)		Bus 13	Applied Business Law (3)
	Psych 46/	The Mentally III, Alcoholic, Drug		Bus 50	Introduction to Data Processing (3)
	LE 46	Addict and the Law(3)			
	Zool 1B	General Zoology (4)			
Tra	nsfer students	planning to major in these areas should			BUSINESS—TRANSFER
		ral Major and complete requirements list- the school to which they anticipate trans-	Tw	enty units requ	uired for the major
	ing.	the school to which they anticipate trans-		150 (5)	
	7	UAL-BICULTURAL STUDIES	ı,	Hequirea cou	rses for the major
	BILING	OAL-DICOLIONAL STODIES		Bus 1A	Principles of Accounting(4)
Tw	enty-one to 24	units required for the major		Bus 1B	Principles of Accounting(4)
1.	Required cour	rses for the major		Bus 5A Econ 1	Business Law
	ST AND			Econ 2	Principles of Economics(3) Principles of Economics(3)
	Eng 2	Introduction to Linguistics (3)		77 87 10	TOTAL STATE OF THE
	Eng 30A	The Mexican American in	11.		ourses for the major (select a minimum of
	Hist 30	Literature(3) Mexico & the American Southwest. (3)		3 units)	
	Span 42	Introduction to Mexican American		Bus 2	Introduction to Business(3)
	Spair 12	Studies (3)		Bus 5B	Business Law
		*************************************	*	Bus 9	Math. for Business Analysis (3)
	Required for r	nonolingual students only		Bus 23	Office Machines(3)
	*Span 2	Elementary Spanish (4)		Bus 26 Bus 42	Elementary Statistics(3)
	*Span 3	Intermediate Spanish(4)		Bus 50	Business Correspondence(3) Introduction to Data Processing(3)
	*Span 4	Intermediate Spanish(4)		Dus 50	introduction to Data Processing (5)
	Required for t	ollingual students only			79 6
	Marian Marian	100 Mar. 100			CARPENTRY
	*Span 20B *Span 21	Bilingual Spanish(4) Intermediate Bilingual Spanish(4)	Tw	enty-four units	required for the major
	*Span 22	Advanced Bilingual Spanish (4)			
		4) 150 32 100 A 160 Birch	1.	TABLE OF	rses for the major
	iency examinat	ny be waived on the basis of language pro-		Carp 1	The Apprenticeship & Math (3)
110	crioy examina			Carp 2	Pre-job and Plot Planning (3)
		BOOKKEEPING		Carp 3 Carp 4	Rough Framing
т	anticunita canci	ived for the major		Carp 5	Interior and Exterior Finish (3)
1 991	enty units requi	ired for the major		Carp 6	Stair Building (3)
1.	Required cour	ses for the major		Carp 7	Concrete and Forms(3)
	Bus 10A	Practical Bookkeeping(3)		Carp 8	Heavy Timber Construction and
	Bus 10B	Practical Bookkeeping(3)			Welding(3)
	Bus 23	Office Machines(3)			
	Bus 24	Records Management (3)			
	Bus 25	Financial Record Typing(2)			COSMETOLOGY
	Bus 50	(40 wpm skill level required) Introduction to Data Processing (3)	2000	20 1 240 00 0000	
		. 172 A 170	For	rty-five units re	quired for the major
11.	Acceptable co 3 units)	urses for the major (select a minimum of	I.	Required cou	rses for the major
	57 5240098 5	Amin Mars Dur Manager		Cos 50A	Introduction to Cosmetology (10)
	Ag 25	Agriculture Bus. Management (3)		Cos 50B	Introduction to Cosmetology (10)
	Ag 26	Agriculture Business Organization and Management(3)		Cos 52A	Intermediate Cosmetology (10)
	Bus 2	Introduction to Business(3)		Cos 52B	Intermediate Cosmetology (10)
	Bus 3	Business Management(3)		Cos 54A	Advanced Cosmetology (5)
	Bus 4	Principles of Marketing(3)			
	Bus 11	Personal Finance(3)			DATA PROCESSING
	Bus 12	Personal Income Tax(2)			DATA PROCESSING
	Bus 13	Applied Business Law (3)	Tw	enty units requ	uired for the major
	Bus 39	Office Procedures(3)	1.	Required cou	rses for the major
		ICINECC CUREPUICION	**	Bus 1A	VEX. 20 1941 (601 1941 1941 1955 1950 1950)
	BC	JSINESS SUPERVISION		Bus 1B	Principles of Accounting(4) Principles of Accounting(4)
Twe	enty-one units	required for the major		Bus 50	Introduction to Data Processing (3)
ı.	Required cour	ses for the major		Bus 52	Computer Programming 1 (3)
17.1	Bus 2			Bus 53	Computer Programming II(3)
	Dus Z	Introduction to Business(3)		Bus 54	Data Processing Systems(3)
		70			

EARLY CHILDHOOD EDUCATION

Twenty-seven units required for t	tne	maior
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1.	Required	courses for the major
	ECE 20/	Developmental Psyc

ECE 20/	Developmental Psychology of
Psych 20	Children
ECE 21/	Early Childhood Socialization:
Psych 21	Children, Family & Community (3)
ECE 22/	Principles of Child Development
Psych 22	and Observation(3)
ECE 23/	Early Childhood Development

Psych 23	Curriculum
ECE 24/	Creative Learning Experience
	for Young Children (3)

Psych 24/TA 2 ECE 25/	24 for	Young Children	٠	 	•	٠.		٠		٠	(3)
Psych 25 ECE 26/	Field	Experience					٠.	٠	٠.	٠	(3)

FOE OC	ricid Experience(0)
ECE 26/	1_1 gi 54 hg dar 0001 50040
Psych 26	The Art of Parenting(3)
ECE 28/	Administration and Supervision in
	그는 그 사용으로 열면 이 경영을 하는데 모든 생각을 맞았다면 하다면 하는데 나는 사람이 그렇게 되었다면 하는데 사람들이 아니라 하다면 하는데

Early Childhood Education (3) Psych 28 TA 4/ECE 4 Bilingual-Multicultural Curriculum and Instruction(3)

II. Additional courses from the following list are recommended:

ECE 29/ Psych 29	Child Development Associate: Intro. & Initial Assessment (2)
ECE 31/	Child Development Associate
Psych 31	Portfolio(2)
Psych 1A	General Psychology(3)
Psych 1B	Advanced General Psychology (3)
Psych 3/TA 3	Psychology of Personal and Social Adjustment(3)
TA 6/ECE 6	Language Development for Young Children
TA 8/ECE 8	Mathematics for Young Children(3)
Psych 16	The Psychology of Interpersonal Relationships (3)
Psych 17	Social Psychology(3)
Psych 27/	Understanding Exceptional
ECE 27/PL 1	Students(3)
Psych 30	Psychology of Adolescence (3)

ENGINEERNG

Twenty-one units required for the major

I. Required courses for the major

Engr 2A	Engineering Drawing(3)
Engr 3	Descriptive Geometry (3)
Engr 10	Engineering Problems(3)
Engr 65	Statics(3)
Engr 72AB	Surveying for Engineering
-= -	Technology (3-3)

Recommended as electives (do not fulfill major require-

ments)	
Astron 21	Elementary Astronomy (3)
Engr 11	Basic Electricity(3)
Engr 12	Architectural Drafting I (3)
Engr 18A	Plane Surveying(3)
Engr 18B	Advanced Surveying(3)
Engr 55	Strengths of Materials (3)
Math 2	Advanced Algebra & Trigonometry (5)
Math C	Plane Trigonometry(3)
Math 47	Programming in Fortran (3)

ENGINEERING TECHNOLOGY

Eighteen units required for the major

I. Required for the major

Engr 3	Descriptive Geometry(3)
Engr 10	Engineering Problems(3)
Engr 23	Hand Calculators & Computations . (1)
Engr 65	Statics (3)
Engr 72B	Surveying for Engineering Tech(3)

II. Recommended as electives (do not fulfill major requirements)

Astron 21	Elementary Astronomy(3)
Engr 11	Fundamentals of Electricity (3)
Engr 12	Architectural Drafting I(3)
Engr 18A	Plane Surveying(3)
Engr 18B	Plane Surveying(3)
Engr 55	Strengths of Materials (3)
Math 2	Advanced Algebra and
	Trigonometry
Math C	Plane Trigonometry (3)
Math 47	Programming in Fortran (3)
Weld 30	Arc Welding(3)
Weld 32	Oxy-Acetylene Welding(3)

Student may substitute the transfer course which relates to a terminal-type course. If the student meets stated prerequisites.

ENGLISH

Eighteen units required for the major

I. Required courses for the major (12 units)

Eng 1A	Reading and Composition (3)
Eng 1B	Introduction to Literature(3)
Eng 17AB OR	Survey of English Literature 1
Eng 16AB	World Literature (3-3)

II. Acceptable courses for the major (6 units from the following courses)

Eng 2	Intro. to English Linguistics (3)
Eng 3/Hum 3/	Introduction to Film History
MPP 3	and Criticism(3)
Eng 8	Advanced Composition(3)
Eng 9	Creative Writing(3)
Eng 15	American Literature (3)
Eng 20AF	Studies in Literature (3-3-3-3-3)
Eng 25AF	Intro. to Shakespeare (3-3-3-3-3)
Eng 30A	The Mexican American in
	Literature(3)
Eng 30B	The Mexican American in
P	Literature(3)

FIRE SCIENCE

Twenty-one to 24 units required for the major

I. Required courses for the major

Fire Sci 81	Introduction to Fire Science (3)
Fire Sci 82	Fire Fighting Tactics & Strategy (3)
Fire Sci 83	Fire Hydraulics(3)
Fire Sci 84	Fire Apparatus & Equipment(3)
Fire Sci 85	Fire Company Organization and
	Procedure
Fire Sci 86	Rescue Practices(3)
Fire Sci 87	Fundamentals of Fire Prevention (3)
*Math 51	Basic Mathematics, or equivalent (3)

*Math 51, or equivalent, required before registration in Fire Science 83.

FOREIGN LANGUAGE

Twenty units required for the major

 Required courses for the major (a minimum of 20 units from any of the following sequences with a minimum concentration of 16 units in one language). Additional units to complete the major can be selected from a second language area and/or the acceptable course listed below.

French

Elementary French* (4)
Elementary French** (4)
Intermediate French(4)
Intermediate French(4)
Intermediate Conversational
French(3)
Intermediate Conversational
French(3)

Span 1	Elementary Spanish*** (4)
Span 2	Elementary Spanish**** (4)
Span 3	Intermediate Spanish(4)
Span 4	Intermediate Spanish(4)
Span 10	Intermediate Conversational
0.2 (0.000.00 to 0.000.00	Spanish(3)
Span 11	Advanced Conversational
reschi l forgetteten (d. 12)	Spanish (3)

Spanish (Bilingual)

Span 20A	Bilingual Spanish(4)
Span 20B	Bilingual Spanish (4)
Span 21	Intermediate Bilingual Spanish (4)
Span 22	Advanced Bilingual Spanish (4)
Span 23	Bilingual Oral Spanish(3)

 Acceptable courses for the major (will fulfill major requirements if 16 units minimum in one language have been completed in one of the areas listed below).

Fr 20A	French Drama: Reading and Performance(2)
Fr 20B	French Drama: Reading and
11 200	Performance(2)
Fr 40	Introduction to French Civilization and Culture(3)
Fr 41	Introduction to French Civilization
	and Culture Beyond France (3)
Ger 1	Elementary German (4)
Ger 2	Elementary German (4)
Ger 10	Conversational German(3)
Ger 11	Conversational German(3)
Ital 1A	Elementary Italian(2)
ital 1B	Elementary Italian(2)
Span 5A	Beginning Conversational Spanish and Culture(2)
Span 5B	Beginning Conversational Spanish and Culture(2)
Span 7	The Spanish Sound System (3)
Span 12	Advanced Conversational
Opan 12	Spanish(2)
Span 24	Introduction to Spanish Literature (Conducted in Spanish) (3)
Coop OF	
Span 25	Introduction to Spanish American Literature (Cond. in Spanish) (3)
Span 28A	The Mexican American in
Coop 20D	Literature(3) The Mexican American in
Span 28B	Literature(3)
Span 40	Civilization of Spain and Portugal (3)

Span 41	Civilization of Spanish America
	and Brazil(3)
Span 42	Introduction to Mexican American
9	Studies (3)
Span 43	History and Culture of the
	Philippines (3)

Some courses may be waived through testing or advanced placement.

Students with one year high school foreign language skills in listening, speaking, reading and writing, meeting course 1 objectives, may enter course 2 (Fr 2, Span 2, Ger 2); two years, course 3 (Fr 3, Span 3, Ger 3); three years, course 3 or 4; four years, course 5. Intermediate level conversational courses should be taken concurrently: Fr 10 and Fr 3; Fr 4 and Fr 11; Span 10 and Span 3; Span 11 and Span 4. Students should first contact the language instructors and counselors in order to determine whether they have met the performance guidelines as defined in the description of competence by levels. This description is available in the Counseling Center and the Language Department.

- *Completion of Fr 1A and 1B sequence is equivalent to Fr 1.
 **Completion of Fr 2A and 2B sequence is equivalent to Fr 2.
- ***Completion of Span 1A and 1B sequence is equivalent to Span 1.

****Completion of Span 2A and 2B sequence is equivalent to Span 2.

GENERAL BUSINESS

Twenty units required for the major

I. Required courses for the major

II Acceptable courses for the major

Acceptable (courses for the major
Bus 13	Applied Business Law (3)
Bus 14	Practical Salesmanship (3)
Bus 21AB	Proficiency-Exit Typewriting (2-2)
Bus 23	Office Machines(3)
Bus 24	Records Management(3)
Bus 41	Essentials of Business
	Correspondence (2)
Bus 43	Business Correspondence in
	Spanish (3)

Bus 79/Jrn 8 Public Relations Techniques (3)

GENERAL MAJOR

Completion of a minimum of eighteen units of lower division courses that are required or recommended subjects as specified for upper division standing in a designated major by a college to which the student plans to transfer.

This major provides for students whose lower division preparation for a specific college requires courses in more than one division. Some examples of such majors (taken at random from the University of California publication "Prerequisites and Recommended Subjects" and from the California State University, San Diego catalog) are as follows:

Agriculture Agriculture, Mathematics, Social Science,
Physical Science
Art Design Art, Anthropology, History, Philosophy
Anthropology Biological Science, Psychology, English,

Mathematics

Biological Science Biological Science, Cher	istry. Anat 10	Human Anatomy & Physiology (5)
Physics, Mather		Principles of Biological Science (4)
Business Business, Social Science, Mathem	**************************************	General Microbiology(4)
[12] [14] [14] [14] [14] [14] [14] [14] [14	glish Bot 1A	General Botany (4)
Comparative Literature English, History, Philos		General Botany(4)
Foreign Lang		g 5 Man and His Environment(3)
Criminology English, Foreign Language, Social Sc		Human Physiology
Mather	1,570,170,170,170,170,170,170,170,170,170,1	General Zoology
Economics Social Science, Mathematics, But		General Zoology
English English, Social Science, Philos		Life of the Past: An
Engineering Engineering, Mathematics, Physical Sc		Introduction to Paleontology (3)
Foreign Language Foreign Language, History, Philos		ience
History History, Mathematics, Foreign Lang	uage	
Home Economics Biological Science, Ph	ysics, Anthro 1	Physical Anthropology(3)
Mathematics, Social So	ience Astron 21	Elementary Astronomy(3)
Physical Education Physical Education, Biological Sc	ence, Astron 22	Intermediate Astronomy (3)
Mathematics, Social So	ience Chem 1A	General Inorganic Chemistry (5)
Pre-Dentistry Biological Science, Physical Sc	ence. Chem 1B	General Inorganic Chemistry (5)
English, Social So	N_ 2	Quantitative Chemistry (4)
Pre-Physiotherapy Biological Science, Physical Sc		Organic Chemistry (5)
Mathematics, Social Sc		Physical Geography(3)
Psychology Biological Science, Mathem		Physical Geology(4)
Physical Science, Philosphy, Anthropology, Soci		Advanced Algebra & Trigonometry (5)
Recreation	19 TH THE TOTAL	Analytic Geometry & Calculus (5)
the state of the s		Analytic Geometry & Calculus (5)
Sociology Psychology, Philosophy, Mather		Calculus & Differential Equations (4)
Students in the General Major will work out in confer	ence Phys Sci 25	Introduction to Physical Science(4)
with a counselor a course of study that will meet rec	uiro_ FIIyS ZA	General Physics(4)
ments for their specific majors at the selected colleges	they Filys 20	General Physics(4)
expect to attend.	OI PHYS 4A	Principles of Physics (4)
expect to attend.	Phys 4B	Principles of Physics (4)
GENERAL OFFICE TECHNICIAN	Phys 4C	Principles of Physics (4)
GENERAL OFFICE FEORIGICIAN		
Eighteen units required for the major		GERONTOLOGY
		GENORIOLOGI
Required courses for the major	Twenty-five units	s required for the major
Required courses for the major	I Demiliand on	s required for the major
Required courses for the major Bus 21AB Proficiency-Exit Typewriting	(2-2) I. Required co	s required for the major urses for the major
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required)	(2-2) I. Required co Geron 1	s required for the major urses for the major Fundamentals of Aging(3)
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription	(2-2) I. Required co Geron 1 • (1) Geron 2	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines	(2-2) I. Required co Geron 1 . (1) Geron 2 . (3) Geron 3	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management	(2-2) I. Required co Geron 1 (1) Geron 2 (3) Geron 3 (3) Geron 4	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. 1	(2-2) I. Required co Geron 1 Geron 2 Geron 3 Geron 4 Geron 5	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management	(2-2) I. Required co Geron 1 (3) Geron 3 (3) Geron 4 Geron 5 or 3) Geron 11AB	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2	(2-2) I. Required co Geron 1 Geron 2 (3) Geron 3 (3) Geron 4 Geron 5 or 3) Geron 11AB Psych 1A	s required for the major urses for the major Fundamentals of Aging
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I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence (2 II. Acceptable courses for the major (minimum of 6 units required) Bus 10A Practical Bookkeeping	(2-2) I. Required co Geron 1 Geron 2 (3) Geron 3 (3) Geron 4 Geron 5 or 3) Geron 11AB Psych 1A Sociol 1	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence (2 II. Acceptable courses for the major (minimum of 6 units required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law	(2-2) I. Required co Geron 1 Geron 2 (3) Geron 3 (3) Geron 4 Geron 5 Or 3) Geron 11AB Psych 1A Sociol 1 (3) GOVERNA	Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2 II. Acceptable courses for the major (minimum of 6 units required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law Bus 25 Financial Record Typing	(2-2) I. Required co Geron 1 Geron 2 (3) Geron 3 (3) Geron 4 Geron 5 or 3) Geron 11AB Psych 1A Sociol 1 (3) (3) (3) (3) (3) (3) (3) (3) (3) (4) (5) (6) (7) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	s required for the major urses for the major Fundamentals of Aging
I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2 II. Acceptable courses for the major (minimum of cunits required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law Bus 25 Financial Record Typing Bus 39 Office Procedures	(2-2) I. Required co Geron 1 Geron 2 (3) Geron 3 (3) Geron 4 Geron 5 Or 3) Geron 11AB Psych 1A Sociol 1 (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	s required for the major urses for the major Fundamentals of Aging
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I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2 II. Acceptable courses for the major (minimum of cunits required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law Bus 25 Financial Record Typing Bus 39 Office Procedures Bus 40 Grammar and Usage Bus 43 Bus. Correspondence in Spanish	(2-2) I. Required co Geron 1 Geron 2 Geron 3 Geron 4 Geron 5 Or 3) Geron 11AB Psych 1A Sociol 1 (3) (3) (3) (3) (3) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Fundamentals of Aging
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I. Required courses for the major Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2 II. Acceptable courses for the major (minimum of cunits required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law Bus 25 Financial Record Typing Bus 39 Office Procedures Bus 40 Grammar and Usage Bus 43 Bus. Correspondence in Spanish	(2-2) I. Required co Geron 1 Geron 2 Geron 3 Geron 4 Geron 5 Geron 11AB Psych 1A Sociol 1 (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Fundamentals of Aging
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Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2 II. Acceptable courses for the major (minimum of 6 units required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law Bus 25 Financial Record Typing Bus 39 Office Procedures Bus 40 Grammar and Usage Bus 43 Bus. Correspondence in Spanish Bus 50 Introduction to Data Processing. GENERAL SCIENCE Successful completion of all courses offered in one ject field (Anatomy, Biology, Botany, Chemistry, Geo Math, Physics, Physiology, and Zoology) may be comit with courses from at least two other subject fields (withingeneral area of Natural-Physical Science) to accumulate the still provided the subject fields (withingeneral area of Natural-Physical Science) to accumulate the subject fields (withingeneral area of Natural-Physical Science)	(2-2) I. Required co Geron 1 Geron 2 (3) Geron 3 (3) Geron 4 Geron 5 Geron 11AB Psych 1A Sociol 1 (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Fundamentals of Aging
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Bus 21AB Proficiency-Exit Typewriting (50 wpm skill level required) Bus 22 Machine Transcription Bus 23 Office Machines Bus 24 Records Management Bus 41 OR Essentials of Bus. Corresp. Bus 42 Business Correspondence] (2 II. Acceptable courses for the major (minimum of 6 units required) Bus 10A Practical Bookkeeping Bus 13 Applied Business Law Bus 25 Financial Record Typing Bus 39 Office Procedures Bus 40 Grammar and Usage Bus 43 Bus. Correspondence in Spanish Bus 50 Introduction to Data Processing. GENERAL SCIENCE Successful completion of all courses offered in one ject field (Anatomy, Biology, Botany, Chemistry, Geo Math, Physics, Physiology, and Zoology) may be comb with courses from at least two other subject fields (withing general area of Natural-Physical Science) to accumulate hours for the General Science Major. The most reliable guide for appropriate course com tions in this major will be the catalog from the specific lege to which the student will transfer.	(2-2) I. Required co	Fundamentals of Aging

GRAPHIC ARTS

Twenty-two units required for the major

I. Required courses for the major

GA 10	Graphic Communication I (2)
GA 11	Graphic Communication II (3)
GA 12	Composition, Layout & Paste-up (3)
GA 20	Offset Printing I(3)
GA 21	Offset Printing II (3)
GA 22	Photography and Platemaking (3)
GA 23	Bindery, Cutting and Distribution (2)
GA 30	Graphics Plant Operation and
	Management Fundamentals (3)

HUMAN RELATIONS

Areas of emphasis: Community Mental Health Worker, Counseling, School, Social Services, Personnel, Employment Counseling and Supervision

Twenty-four units required for the major

I. Required courses for the major

Psych 1A	General Psychology(3)
Psych 3/TA 3	Psychology of Personal and
	Social Adjustment(3)
Psych 9/HR 9	Interviewing and Counseling (3)
Psych 11A/	
HR 11A	Practicum(3)
Sociol 1	Principles of Sociology (3)

II. With the approval of his/her counselor and the Division Chairperson, the student will select a minimum of nine units (depending on areas of emphasis) from the following courses. It is considered advisable for students in certain areas of emphasis to take more than nine units from the list below.

Anthro 2	Cultural Anthropology(3)
Bus 6	Management Concepts of
	Supervision
Bus 7	Human Relations in Management (3)
Bus 50	Introduction to Data Processing (3)
Bus 79	Public Relations Techniques (3)
HR 8/Psych 8	Personal and Career Development . (3)
HR 10/Psych 10	OSmall Group Leadership(3)
Jrn 3	Mass Communications (3)
Psych 1B	Advanced General Psychology (3)
Psych 2	Introduction to Physiological
	Psychology (3)
Psych 5	Psychology of Effective Behavior (3)
Psych 11B/	
HR 11B	Practicum(3)
Psych 12/	
Math 12/Bus 26	Elementary Statistics(3)
Psych 14	Abnormal Psychology (3)
Psych 15/	Social and Psychological
Sociol 15	Dynamics of Drug Use(3)
Psych 16	The Psychology of Interpersonal
	Relationships (3)
Psych 17/	
Sociol 17	Social Psychology(3)
Psych 20/	Developmental Psychology of
ECE 20	Children

Psych 26/	
ECE 26	Psychology of Parenthood (3)
Psych 30	Psychology of Adolescence (3)
Psych 35	Developmental Psychology:
	Conception to Death (3)
Psych 40	Psychology of Crisis Counseling (3)
Psych 46/	The Mentally III, Alcoholic, Drug
LE 46	Addict and the Law (3)
Sociol 2	Contemporary Social Problems (3)
Sociol 10	Sociology of Minority Groups (3)
Sociol 33	Marriage and the Family(3)
Sociol 41/	Mass Sociology and Collective
LE 41	Behavior (3)

Strongly recommended that students who do not speak Spanish take a series of courses in Conversational Spanish.

INDIVIDUAL INTERDISCIPLINARY MAJOR

This major for an Associate Degree provides occupationaloriented students with an area of concentration within two divisions to meet a specific job need.

The requirements for the major will be met by satisfactory completion of nine (or more) units in each division.

The courses required will be approved by division chairpersons, a counselor, and the Dean of Vocational-Technical Education. The courses approved will be from courses already established. The student will initiate the request for the major through the Counseling Office.

INDUSTRIAL POWER TECHNOLOGY

Twenty-eight units required for the major

I. Required courses for the major

4 - 004

WE Gen 71

WE Gen 72

WE Gen 73

Ag 33A	Farm Power (5)
Ag 33B	Farm Power (5)
Ag 37	Small Gasoline Engines (3)
Ag 35	Fluid Power
Auto Tech 52	Transmission Systems(3)
Auto Tech 58	Automotive Air Conditioning (3)
HM 36	Power Transmission Systems (5)
Three (3) units	to be selected from the following courses
Ag 50	Shop Mathematics(3)
Eng 7	Technical & Report Writing (3)
Weld 30	Arc Welding(3)
Weld 32	Oxy-Acetylene Welding(3)
WE Gen 70	Personal Efficiency(3)

JOURNALISM

Labor and the Economy (3)

Laws Affecting Employees (3)

Twenty-one units required for the major

I. Required courses for the major

nequired cou	ises for the major
Jrn 1	Introduction to Journalism (3)
Jrn 2ABC	Advanced News & Feature
	Writing (4-4-4)
Jrn 3	Mass Communications (3)
Jrn 5/Ph 5 Ol	R Introduction to Photography
MPP 10/Eng 1	10 Introduction to Motion Picture
20	Production

II. A	Acceptable co	urses for the major (minimum of 3 units		LA 3	Civil Procedures I (3)
f	rom the follow	ving courses)		LA 5	Tort Law(3)
Е	Econ 1	Principles of Economics(3)		LA 6	Criminal Law(3)
E	Econ 2	Principles of Economics(3)		LA 7	Corporations and Taxation (3)
E	Eng 1B	Introduction to Literature(3)		LA 8	Civil Discovery and Evidence (3)
J	Jrn 8/Bus 79	Public Relations Techniques (3)		LA 9 LA 10	Family Law(3)
8	Sociol 1	Principles of Sociology (3)		LA 10 LA 11	Bankruptcy—Creditor/Debtor (3)
	Sociol 2	Contemporary Social Problems (3)		LATI	Real Estate Law for Legal Assistants(3)
	MPP 10/Eng 10	Introduction to Motion Picture		LA 12	Wills/Trusts/Probate(3)
		Production(3)		CA IE	villa, ridata/riobate(b)
20	Jrn 5/Ph 5	Introduction to Photography (3)			LIBERAL STUDIES
	Poly Sci 1	Introduction to Political Science (3)		(S	See Teacher Preparation)
	Poly Sci 2 Bus 20	American Government & Politics (3)		,-	
_	Sp 1	Elementary Typewriting (2) Oral Communication (3)			
	Eng 9AB	Creative Writing(3)			LIFE SCIENCE
	Ph 8	Multi-Media(3)			
E	Eng 3/Hum 3/	Introduction to Film History &	Eig	ghteen units rec	quired for the major
	MPP 3	Criticism(3)	1.	Required cour	ses for the major (minimum of 18 units
J	Jrn 4	Journalistic Issues(3)		from the follow	ving courses)
*If no	ot used to satis	fy the American Institutions requirement		Anat 8	Human Anatomy (4)
for g	raduation.			Anat 10	Human Anatomy and Physiology (5)
				Bio 3	Principles of Biological Science (4)
				Bio 21	General Microbiology(4)
	1	AW ENFORCEMENT		Bot 1A Bot 1B	General Botany(4)
	-			Physio 1	General Botany
		required for the major		Zool 1A	General Zoology(4)
1.	Required cour	rses for the major		Zool 1B	General Zoology (4)
	LE 21	Introduction to the Administration			Man and His Environment (3)
		of Justice(3)		Anthro 1	Physical Anthropology(3)
	LE 33 LE 35	Concepts of Criminal Law (3) Legal Aspects of Evidence (3)		(maximum of 6	6 units from the following courses)
	LE 36	Principles and Procedures of		Chem 1A	General Inorganic Chemistry (5)
		Justice System(3)		Chem 1B	General Inorganic Chemistry (5)
	LE 38	Community Relations(3)		Chem 5	Quantitative Analysis(4)
		urses for the major (6 units from the fol-		Chem 12	Organic Chemistry (5)
16	owing courses	3)		Chem 2A	Introduction to Chemistry(4)
	_E 22	Police Patrol Procedures(3)			
	_E 24	Traffic Control and Vehicle Code (3)		MACHINERY	OPERATION AND MAINTENANCE
	_E 26 _E 29	Traffic Accident Investigation (3)		MACHINENT	OPERATION AND MAINTENANCE
	-C 2 3	Preliminary Investigation and Reporting(3)	Tv	venty-four units	required for the major
	E 34	Criminal Investigation (3)	1.	Required cours	ses for the major
	_E 37 _E 39	Juvenile Control		HM 35	Heavy Equipment Operation and
		s in the Law Enforcement Area (3)			Maintenance(5)
				Ag 35	Fluid Power
		l as electives (do not fulfill major require-		Ag 37	Small Gasoline Engines(3)
n	nents)			Weld 30	Arc Welding(3)
L	E 23	Defensive Tactics(1)		Weld 32	Oxy-Acetylene Welding(3)
	-E 40	Advanced Officers Course(1)		Six (6) units to	be selected from the following courses:
L	_E 41	Mass Sociology and Collective		Ag 50	Shop Mathematics (3)
1	_E 42	Behavior(3) Nonlethal Chemical Agents (½)		Eng 7	Technical & Report Writing (3)
	E 43	Reserve Officers Class Level II (3)		WE Gen 70	Personal Efficiency(3)
	E 44	Reserve Officers Class Level I (6)		WE Gen 71	Motivation
L	E 47	Field Training Officers(1)		WE Gen 72 WE Gen 73	Labor and the Economy(3)
L	_E 48	Advanced Criminal Law(3)			Laws Affecting Employees (3)
				MARKET	TING—SALES TECHNOLOGY
		LEGAL ASSISTANT	Eig	ghteen units req	uired for the major
		uired for the major	I.	Required cour	ses for the major
i. H	equirea cours	es for the major		Bus 2	Introduction to Business(3)
(E-V)	us 5A	Business Law (3)		Bus 4	Principles of Marketing(3)
	A 1	Intro. to Legal Assistants(3)		Bus 13	Applied Business Law (3)
L	A 2	Library Science & Legal Writing (3)		Bus 14	Practical Salesmanship(3)

II.		urses for the major (6 units from the fol-		MOTION PICTURE PRODUCTION
	lowing courses)		Tw	renty-two units required for the major
	Bus 1A Bus 10A	Principles of Accounting(4) Practical Bookkeeping(3)	I.	Required courses for the major
	Bus 21AB Bus 23 Bus 65 Econ 1	Proficiency—Exit Typewriting (2-2) Office Machines		Ph 5/Jrn 5 Introduction to Photography (3) MPP 10/Eng 10 Introduction to Motion Picture Production
	Span 1	Elementary Spanish		MPP 11 Intermediate Motion Picture Production(3)
		MATHEMATICS		MPP 12 Advanced Motion Picture Production(3)
Eig	hteen units req	uired for the major		MPP 13 TV Station Observation(1) Eng 3/Hum 3/ Introduction to Film History and
1.	Required cou	rses for the major		MPP 3 Criticism(3)
	Math 3A	Analytic Geometry & Calculus (5)		Jrn 3 OR Mass Communications Ph 8 Multi-Media
	Math 3B	Analytic Geometry & Calculus (5)	11	
11.	Acceptable co	ourses for the major	11.	Acceptable courses for the major (three units required from the following courses)
	*Math C *Math 2 Math 4 Math 6 Math 12 Math 47	Plane Trigonometry		Art 22A OR Design Art 22B Design
		Math 2, but not both, are acceptable for the		Ph 8 Multi-Media
III.	-	d as electives (do not fulfill major require-		MUSIC
	ments)		Th	irty-three units required for the major
	Chem 1A Engr 15 Engr 16 Phys 4A Phys 4B Phys 4C	General Inorganic Chemistry (5) Statics (3) Dynamics (3) Principles of Physics (4) Principles of Physics (4) Principles of Physics (4)		Required for the major (minimum of 25 units from the following courses)
NO	NOTE: It is highly recommended that Math 4, Calculus and Differential Equations; and Math 6, Linear Algebra,			Academic courses (minimum of 20 units from the following courses) Available: Advantage (2) Available: Advantage (2) Available: Advantage (2)
	be completed at Imperial Valley College.			Mus 8A Beginning Musicianship (2) Mus 8B Beginning Musicianship (2)
	MED	ICAL OFFICE ASSISTANT		Mus 8C Intermediate Musicianship(2) Mus 8D Intermediate Musicianship(2)
Tw	enty-two to twe	enty-three units required for the major		Mus 9A Beginning Harmony(3)
1.	Required cour	ses for the major		Mus 9B Beginning Harmony(3) Mus 9C Intermediate Harmony(3)
	Bus 21AB	Proficiency-Exit Typewriting (2) (40 wpm skill level required)		Mus 9D Intermediate Harmony(3)
	Bus 22 Bus 23 Bus 24 Bus 41 OR	Machine Transcription		Note: Music 8A and 9A must be taken concurrently and the sequence followed through 8D and 9D.
	Bus 42 Bus 48 Bus 49A	Business Correspondence (2 or 3) Medical Insurance(3) Medical Terminology for		 Applied Music (minimum of 5 units from the following courses). (Requirement may be waived through proficiency examination.)
	Bus 49B	Secretaries		Mus 10A Beginning Group Piano I (1) Mus 32AD Applied Music (1-1-1-1)
11.	Acceptable co 3 units)	urses for the major (select a minimum of		 Performance Ensembles (minimum of 8 units from the following courses)
	Bus 10A Bus 13 Bus 25 Bus 39 Bus 40 Bus 43	Practical Bookkeeping		Mus 17AF Chamber Singers (2-2-2-2-2) Mus 18AF Chamber Orchestra (2-2-2-2-2) Mus 27AF Concert Band (2-2-2-2-2) Mus 28AF College-Community Chorus
	Bus 50	Spanish(3) Introduction to Data Processing (3)		least one of the above college music organizations every semester enrolled.

II.	Recommende ments)	d as electives (do not fulfill major require-			NURSING (Vocational)	
	Mus 10B	Beginning Group Piano II (1)	Fiff	ty-one units req	uired for the major	
	Mus 11A Mus 11B	Intermediate Group Piano I(1) Intermediate Group Piano II(1)	1.		ses for the major	
	Mus 12 Mus 13 Mus 15A	Beginning Class Guitar(1) Intermediate Class Guitar(1) Beginning Class Voice(1)		Psych 5	Psychology of Effective Behavior (or Psych 1A, if eligible) (3)	
	Mus 15B	Beginning Class Voice(1)		VN 50 VN 51	Medical-Surgical Nursing I (7) Clinical Fundamentals (7)	
	Mus 16	Intermediate Class Voice(1)		VN 52	Medical-Surgical Nursing II(5)	
	Mus 19Ah Mus 20A	Instrumental Ensemble . (2-2-2-2-2) History and Literature of Music (3)		VN 53	Maternal-Child Health Nursing (5)	
	Mus 20B	History and Literature of Music (3)		VN 54 VN 55	Clinical Fundamentals (7) Medical-Surgical Nursing III (10)	
	Mus 21A	D Brass, Woodwind and Percussion Methods(2-2-2-2)		VN 56	Clinical Fundamentals(7)	
	Mus 22A	Introduction to Principles and Practices of Conducting (2)	II.	Recommended ments)	d as electives (do not fulfill major require-	
	Mus 22B	Conducting Principles and Practices (2)		Anat 8	Human Anatomy (4)	
		Stage Band (2-2-2-2-2)		Anat 10 Bio 3	Human Anatomy & Physiology (5) Principles of Biological Science (4)	
	Mus 26Al	Rehearsal and Performance . (1-1-1-1)		Bio 21	General Microbiology (4)	
	Mus 29Ar	Estudiantina (2-2-2-2-2) Introduction to Twentieth		Chem 2A	Introduction to Chemistry(4)	
		Century Music		Physio 1 Psych 1A	Human Physiology(4) General Psychology(3)	
	Mus 63AL Mus 64	D Pep Band (½-½-½-½) College-Community Band (2)		Psych 35	Developmental Psychology: Conception to Death(3)	
		State Section States on the Section Se		Soc Sci 52	Introduction to American Government	
				Sociol 1	Principles of Sociology (3)	
		NURSING			PHOTOGRAPHY	
	(Associate Degree/Registered)			Twenty-one units required for the major		
Fo	rty units require	ed for the major	ī.	Required cour	ses for the major	
1.	Required cour	rses for the major		Jrn 3 Ph 5/Jrn 5	Mass Communications	
	ADN 1	Associate Degree Nursing (8)		Ph 6	Intermediate Photography(3)	
	ADN 2	Associate Degree Nursing (8)		Ph 7	Advanced Photography(3)	
	ADN 3 ADN 4	Associate Degree Nursing (11) Associate Degree Nursing (11)		MPP 10/ Eng 10 OR	Introduction to Motion Picture Production	
	ADN 5A	Development of Contemporary			Introduction to Film History	
	ADN 5B	Nursing(1) Nursing Trends & Opportunities (1)		MPP 3	Criticism	
		required to complete ADN Program (28	H.	be in either ps	the following courses. Three units must sychology or art.	
	units required)		Art 22A OR Art 22B	Design(3)	
	Anat 10	Human Anatomy & Physiology (5)		Art 3A OR	History & Appreciation of Art	
	Bio 21 Psych 1A	Microbiology(4) General Psychology(3)		Art 3B	History & Appreciation of Art (3)	
	Sociol 1	Principles of Sociology (3)		Psych 1A Psych 5	General Psychology(3) Psychology of Effective Behavior (3)	
	Eng 1A *Soc Sci 52	Reading and Composition (3) Introduction to American		Jrn 1	Introduction to Journalism (3)	
	300 301 32	Government(3)		Ph 8 Eng 10/	Multi-Media(3) Introduction to Motion Picture	
		Learning Skills		MPP 10 OR	Production	
		(Communications) Elective (3) Humanities Elective (1)			Introduction to Film History	
	Psych 35	Developmental Psychology: Conception to Death (3)		MPP 3	Criticism (3)	
	1:	Conception to Death (5)			HYSICAL EDUCATION	
11.	Acceptable co	ourses for the major	-		uired for the major	
	11) and Physio 1 (4 units) may be substituted	I.	D. AUD. SC	rses for the major	
	for Anat 10. Th	is elective substitution must be completed		HE 1 HE 2	Health Education	
	before enterin	■ Suppose the Supervision of No. 2011 No.		PE 6	Lifesaving (2)	
		ecting to transfer to a state senior college		PE 50 PE 61	Intro. to Physical Education (2) Physical Education in the	
	are advised to take six units of "American Institutions" electives instead.				Elementary School(3)	

n.	Select six (6)	units from the following courses			PHYSICAL SCIENCE
	PE 2ABCD PE 3ABCD	Gymnastics, Coed (1-1-1-1) Physical Fitness, Women (1-1-1-1)	Eig	ghteen units red	quired for the major
18	PE 4ABCD PE 5ABCD	Badminton, Coed (1-1-1-1) Swimming, Coed (1-1-1-1)	I.	Required cou from the follo	rses for the major (minimum of 18 units wing courses)
	PE 7 PE 8ABCD PE 9AH	Water Safety Instructor Training (2) Bowling, Coed (1-1-1-1) Adapted Physical Exercises, Coed (1-1-1-1-1-1)		Astron 21 Chem 1AB Chem 5 Chem 12	Elementary Astronomy (3) General Inorganic Chemistry (5-5) Quantitative Analysis (4) Organic Chemistry (5)
	PE 10ABCD PE 11ABCD PE 12ABCD PE 13 PE 14ABCD PE 15ABCD	Team Sports			5 Man and His Environment
	PE 16ABCD PE 17ABCD PE 18ABCD	Group Slenderizing (2-2-2-2) Physical Fitness, Men (1-1-1-1) Golf, Coed (1-1-1-1)	11.		ourses for the major (maximum of 6 units wing courses)
	PE 19A PE 19B	Karate, Coed(1) Karate, Coed(1)		Engr 23 Math 2	Slide Rule & Computations (1) Advanced Algebra and
	PE 19C PE 20ABCD PE 22ABCD	Advanced Karate(1) Softball, Coed		Math 3AB Math 4	Trigonometry
	PE 23ABCD PE 24ABCD	Basketball for Women (1-1-1-1) Basketball for Men (1-1-1-1)			PLANT SCIENCE
	PE 25ABCD PE 26ABCD	Folk Dance, Coed (1-1-1-1) Modern Dance, Coed (1-1-1-1)	Twee	antic three units	We are a second to the control of th
	PE 27ABCD	Disco Dance, Coed (1-1-1-1)		LEAST ACCURATE AND ACCURATE AC	s required for the major
	PE 28ABCD PE 29ABCD	Dance Theater, Coed (2-2-2-2) Jazz Dance, Coed (1-1-1-1)	1.	75 76 (65.00)	ses for the major
	PE 30ABCD PE 31AB PE 32ABCD	Song and Cheer (2-2-2-2) Intercollegiate Football & PE (2-2) Intercollegiate Basketball and PE (2-2-2-2)		Ag 40 Ag 41 Ag 42 Ag 43 Ag 45	Soils
	PE 33AB PE 34AB	Intercollegiate Track and PE (2-2) Intercollegiate Baseball and PE (2-2)		Ag 49	Weeds and Weed Control(3)
	PE 35ABCD PE 36AB	Intercollegiate Wrestling and PE (2-2-2-2) Intercollegiate Golf and PE (2-2)	н.	lowing course	Name of the Name o
	PE 37AB	Intercollegiate Cross Country and PE (2-2)		Ag 14 Ag 28	Entomology
	PE 38AB	Intercollegiate Tennis and PE (2-2)		Ag 30	Agricultural Mechanics (3)
	PE 39ABCD PE 40ABCD PE 41AB	College Rodeo (2-2-2-2) Synchronized Swimming (2-2-2-2) Intercollegiate Volleyball		Ag 32 Ag 33A	Irrigation and Drainage(3) Farm Power(5)
		and PE (2-2)		Ag 65 Chem 2A	Control of Insects and Other Pests (3) Introduction to Chemistry (4)
	PE 42AB PE 44/LE 23	Intercollegiate Soccer and PE (2-2) Defensive Tactics		Eng 7	Technical and Report Writing (3)
	PE 47	Coaching Techniques of		Weld 30 Weld 32	Arc Welding (3) Oxy-Acetylene Welding (3)
	PE 51	Wrestling(2) Structuring Intramurals(2)		WE Occ 80	Personal Efficiency(4)
	PE 52AB	Theory of Baseball (2-2)		WE Occ 81 WE Occ 82	Motivation (4) Labor and the Economy (4)
	PE 53AB	Theory of Basketball, Coed (2-2)		WE Occ 83	Laws Affecting Employees(4)
	PE 54AB PE 56	Theory of Football			Supplemental connections (i.e. i.e. i.e. visite ♥ emission ordered to the in-
	PE 58	Psychology of Coaching(2)			REAL ESTATE
	PE 59AB PE 60AB	Sports Officiating, Men (3-3) Sports Officiating, Women (3-3)	Tw	enty-seven uni	ts required for the major
	PE 62AB	Physical Education for Special	Ĭ.	Required cou	rses for the major
	PE 64AB PE 66	Olympics		Bus 90 Bus 91 Bus 92A Bus 92B	Real Estate Principles
	Anat 8 Anat 10	Human Anatomy(4) Human Anatomy & Physiology (5)		Bus 93 Bus 94A Bus 94B Bus 95	Real Estate Finance

II. Acceptable courses for the major (3 units from the fol-				Option C	
11.	lowing course			PL 33	
	Bus 1A Bus 2	Principles of Accounting(4) Introduction to Business(3)		PL 34	Introduction to Audiology(3) Audiometry and Hearing Conservation(3)
	Bus 5A	Business Law (3)			Option D
		RECREATION		HA 15A OR	Hospital Nursing Assistant
Eig	hteen units req	uired for the major		HA 15B OR HA 15C	Community Health Aide Developmental Disability/Mental
1.	Required cour	ses for the major		G 8 8721	Retardation Aide (9)
	Rec 70	Introduction to Leisure (3)	11.	Acceptable co	ourses for the major
	Rec 72 Rec 73	Outdoor Recreation		PE 62AB	Physical Education for Special Olympics (3-3)
	Rec 74	Introduction to Community		PL 2B	Practicum Experience to Work with
	PE 14ABCD	Recreation		PL 12	the Physically Limited Person (2) Advanced Communication with the Deaf
	Two units to b	e selected from the following courses		PL 13AD	Communication with the Deaf in the
	Art 31	Crafts(3)		DI 00	College Classroom (1-1-1-1)
	PE 59AB PE 60AB	Sports Officiating, Men (3-3) Sports Officiating, Women (3-3)		PL 30 PL 31	Intro. to Speech & Language (3) Interview and Testing Techniques for
	PE 61	Physical Education in the		N Steel St. St.	Speech & Hearing Problems (3)
	PE 62AB	Elementary Schools (3) Physical Education for Special		PL 32	Behavior Modification Techniques for Speech & Hearing Pathology (3)
	I C OZAD	Olympics (3-3)		PL 40	Introduction to Physical Therapy (3)
	Rec 71	Social Recreation(3)		PL 41 Psych 3	Intro. to Occupational Therapy (3) Psychology of Personal and Social
				rayono	Adjustment(3)
Ħ.	from the follow	urses for the major (2 units to be selected wing courses)		Psych 9	Interviewing and Counseling (3)
	PE 2ABCD	Gymnastics, Coed (1-1-1-1)		Rec 73 Sociol 1	Recreation for Special Groups (4) Principles of Sociology (3)
	PE 4ABCD	Badminton, Coed (1-1-1-1)		Sp 1	Oral Communication (3)
	PE 5ABCD PE 6	Swimming, Coed (1-1-1-1) Lifesaving		Sp 30	Voice & Articulation Development . (3)
	PE 10ABCD	Team Sports (1-1-1-1)			SECRETARIAL*
	PE 12ABCD PE 17ABCD	Tennis, Coed	т.,	venty or 21 unit	s required for the major
	PE 18ABCD	Golf, Coed (1-1-1-1)		Required for t	
	PE 25ABCD PE 26ABCD	Folk Dance, Coed (1-1-1-1) Modern Dance, Coed (1-1-1-1)	••	Bus 21AB	Proficiency-Exit Typewriting (2-2)
	PE 27ABCD	Disco Dance, Coed (1-1-1-1)		Bus 22	Machine Transcription(1)
	DEMARII I	TATION TECHNICIAN FOR THE		Bus 23 Bus 24	Office Machines(3)
		PHYSICALLY LIMITED		Bus 32AB	Records Management (3) Dictation & Transcription Lab (3-3)
Tw	enty-two to twe	enty-three units required for the major		Bus 39	Office Procedures(3)
1.		ses for the major		Bus 40 Bus 41 or	Grammar and Usage(3) Essentials of Business
	107 2000 - 1074-07 - 107 045-07	/Understanding Exceptional		Bus 40	Correspondence (2)
	ECE 27	Students(3)		Bus 42	Business Correspondence (3)
	PL 2A	Practicum Experience to Work with the Physically Limited Person (2)			secretarial major, the student must have a yel of 60 words a minute in typing and 100
	Psych 1A OR	General Psychology			n shorthand dictation.
	Psych 5	Psych. of Effective Behavior (3)			000141 00151105
		owing options must be completed. Addi- y be taken from other options and/or Area			SOCIAL SCIENCE
		courses for the major) to total 14-15 units.	1.	NAS	ses for the major
	PL 20	Option A		satisfied by tal	ents for a major in Social Science may be king 18 units from the following list to inone course from three of the seven fields:
	PL 21	Literary Braille		Anthropology	one course main three or the seven neids.
		Disabilities(3)		Anthro 1	Physical Anthropology(3)
		Option B		Anthro 2	Cultural Anthropology(3)
	ALCOVAL THEODOX				
	PL 10	Beginning Communication with		Anthro 3A	Introduction to Archaeological
	PL 10 PL 11				

			2,00	
Anthro 4 Anthro 5	California Indians		SPEECH P	ATHOLOGY AND AUDIOLOGY
Antinos	and Laboratory(3)	Tw	enty-four units	required for the major
Anthro 6	Indians of North America (3)	1.	Required cours	ses for the major
Economics			Sp 1 OR	Oral Communication 1
Econ 1	Principles of Economics(3)		Sp 2	Intermediate Public Speaking 1 (3)
Econ 2	Principles of Economics(3)		Sp 30 PL 30	Voice & Articulation Development . (3) Intro. to Speech and Language (3)
Geography			PL 31	Interview and Testing Techniques for
Geog 1	Physical Geography(3)		PL 32	Speech & Hearing Problems (3) Behavior Modification Techniques for
Geog 2	Cultural Geography (3)		PL 32	Speech & Hearing Pathology (3)
History			PL 33	Introduction to Audiology(3)
Hist 4A Hist 4B	History of Western Civilization (3) History of Western Civilization (3)		PL 34	Audiometry and Hearing Conservation(3)
Hist 8A Hist 8B Hist 10	History of the Americas	H.	Recommended ments)	d as electives (do not fulfill major require-
Hist 17A	United States History(3)		Math A	Intermediate Algebra (3)
Hist 17B Hist 30	United States History(3) Mexico & the American Southwest (3)		Phys Sci 25	Intro. to Physical Science (4)
Hist 40	Civilization of Spain & Portugal (3)		Psych 1A Psych 2	General Psychology(3) Physiological Psychology(3)
Hist 41	Civilization of Spanish America		Psych 20	Developmental Psychology of
Political Scien	and Brazil(3)			Children
Poly Sci 1	Introduction to Political Science (3)			TEACHER AIDE
Poly Sci 2	American Government & Politics (3)	Tw	enty-four units	required for the major
Poly Sci 3 Poly Sci 14	Comparative Politics(3) Introduction to International		#	The Late of the Control of the Contr
Foly Sci 14	Relations(3)	I.	The state of the s	ses for the major
Social Science	e		TA 1	Introduction to Instructional Associate
Soc Sci 52	Intro. to American Government (3)		TA 3/Psych 3	Personal & Social Adjustment (3)
Soc Sci 69 Sociology	Personal Finance(3)		TA 4/ECE 4	Bilingual-Multicultural Curriculum and Instruction(3)
Sociol 1	Principles of Sociology (3)		TA 6/ECE 6	Language Development for Young Children (3)
Sociol 2 Sociol 10	Contemporary Social Problems (3) Sociology of Minority Groups (3)		TA 8/ECE 8	Mathematics for Young Children (3)
Sociol 33	Marriage and the Family(3)		TA 90/ECE 20	Field Experience(3) / Developmental Psychology of
			Psych 20	Children(3)
				/ Creative Learning Experiences
SOIL	AND WATER TECHNOLOGY		Psych 24	for Young Children(3)
wenty-two units	required for the major			
To the control of the	rses for the major		TE	ACHER PREPARATION
Ag 30 Ag 32 Ag 35	Agricultural Mechanics (3) Irrigation and Drainage (3) Fluid Power (4)	Ac mit	t) provides for tw tting instruction	paration and Licensing Law of 1970 (Ryan yo types of teaching credentials, each per- in grades K-12. One is the MULTIPLE

Ag 30	Agricultural Mechanics (3)
Ag 32	Irrigation and Drainage(3)
Ag 35	Fluid Power(4)
Ag 37	Small Gasoline Engines(3)
Ag 40	Soils (3)
Ag 41	Fertilizers(3)

Acceptable courses for the major (3 units from the following courses)

Ag 28	Heavy Equipment Operation
	and Maintenance(5)
Ag 33A	Farm Power(5)
Weld 30	Arc Welding(3)
Weld 32	Oxy-Acetylene Welding(3)
Chem 2A	Introduction to Chemistry (4)
Engr 72	Surveying for Engineering
•	Technology(3)
WE Occ 80	Personal Efficiency(4)
WE Occ 81	Motivation
WE Occ 82	Labor and the Economy (4)
WE Occ 83	Laws Affecting Employees (4)

SUBJECT CREDENTIAL for teachers in a self-contained classroom as commonly practiced in California elementary schools. The other is the SINGLE SUBJECT CREDENTIAL for teachers responsible for only one subject as practiced in junior and senior high schools.

To satisfy the requirements for the MULTIPLE SUBJECT CREDENTIAL, the student must either pass an examination (National Teachers Examination - Commons Section) or complete an approved major. This major must cover 84 semester units with 21 units in each of the following areas: (1) English and Communications, (2) Mathematics and Science, (3) Social Science, (4) Humanities. Most universities have developed LIBERAL STUDIES majors which have been approved for this credential. The National Teachers Examination may be taken at any time that the student feels capable of passing it. Only passing scores are to be submitted. For those passing the examination, any degree major may be completed. In addition to the major, professional education courses including student teaching are required. A full credential requires 30 semester units after the B.A. degree.

To satisfy the requirements for the SINGLE SUBJECT CREDENTIAL, the individual must pass an examination or have a degree major in one of the areas listed below:

Agriculture	History	Mathematics
Art	Home Economics	Music
Business	Industrial Arts	Physical Education
English	Languages	Physical Science
Government	Life Sciences	Social Science

Other degree majors may be subsumed under these categories: e.g., Speech, Drama, Journalism under English. Check the university catalog for specific listings. A person would increase the possibilities for employment by passing several examinations in addition to his major. It is no longer possible to teach a "minor" subject. Professional education courses and student teaching are required and a full credential is earned by completion of a year past the B.A. degree.

SPECIALIST CREDENTIALS

These credentials require advanced preparation after the individual has earned a valid credential.

Early Childhood Education	Agriculture
Bilingual-Cross Cultural	Mathematics
Special Education including learning handicapped, educationally handicapped, mentally retarded, physically handicapped, speech and hearing disorders.	Reading

SERVICES CREDENTIALS

These also require advanced preparation after the individual has a valid teaching credential.

Pupil Personnel	Librarian
Health	Administrative

LIBERAL STUDIES MAJOR AT IVC

The Liberal Studies Major offers a general type of education that will enable the student to extend his/her background in the four multiple subject groups of knowledge identified below.

The Liberal Studies Major is also recommended for students who plan to enter elementary education. It may meet lower division requirements for the multiple subject diversified major as specified in the Ryan Act.

To complete the lower division preparation for transferring to the four-year college or university, a minimum of 56 units are needed to make formal application to the school of your choice. SEE A COUNSELOR.

- I. Forty-three to fifty-seven units required for the major
 - 1. English: (12-15 units required)
 - a. Eng 1A (3), Eng 1B (3), Eng 2 (3), Sp 1 (3)
 - b. English elective (if required) (3)
 - 2. Math and Science: (7-12 units required)
 - a. Bio 3 (4), Astron 21 (3), Math 10 (if required) (3)
 - Minimum of 3 units to include courses from the following: Anat 8; Anthro 1; Bio 21; Chem 1A; Chem 2A; Geog 1; Phys 2A; Phys 4A; Zool 1A

- 3. Social Science: (12-15 units required)
 - a. Hist 17A and Hist 17B (3) or Poly Sci 1 and Poly Sci 2 (3)
 - Minimum of 6 units to include courses from the following: Anthro 2; Econ 1; Econ 2; Geog 2; Hist 30; Psych 1A; Sociol 1
- 4. Fine Arts and Humanities: (12-15 units required)
 - a. Art 20A or Art 22A (3); Music 7 (3)
 - Three units to include courses from the following: Art 3A; Art 3B; Phil 1A; Phil 1B; Phil 25; Hist 4A; Hist 4B
 - Minimum of 3 units in a Foreign Language course
- II. Recommended courses for the major (not required)
 - 1. HE 1 (3), PE 61 (3)

WATER TREATMENT TECHNOLOGY

Twenty-five units required for the major

						0.
I.	Required	courses	for	the	major	

WT 1	Water Treatment Plant Operator I (4)
WT 2	Water Treatment Plant Operator II . (4)
WT 3	Waste Water Treatment I (4)
WT 4	Waste Water Treatment II(4)
WT 6	Computational Procedures for
	Treatment Plant Operator I (3)
WT 7	Computational Procedures for
0.000.00	Treatment Plant Operator II (3)
WT 8	Computational Procedures for
	Treatment Plant Operator III (3)

II. Recommended courses for the major

200	
Bus 3	Business Management(3)
Bus 6	Management Concepts of
	Supervision
Bus 7	Human Relations in Management (3)
Chem 1A	General Inorganic Chemistry (5)
Chem 2A	Introduction to Chemistry (4)
WT 5	Water Borne Diseases (3)

WELDING TECHNOLOGY

The practice of joining metals by welding is becoming more of a science every day. Imperial Valley College recognizes this and consequently has instituted a two-year Associate Degree program in Welding Technology. This program is designed to train technicians by giving the student ample laboratory welding practice along with related theory, plus a firm background in associated subjects such as mechanics and metal-fabricating techniques.

The welding facility consists of an indoor, air-conditioned laboratory equipped with oxy-acetylene, arc welders, Tig welders, Mig welders, and resistance welders.

Graduates from this program will find many opportunities for employment with aircraft industries, shipbuilding companies, construction crews, etc. The future is almost unlimited for the student with interests along these lines.

Twenty-four units required for the major

I. Required courses for the major

Weld 30	Arc Welding(3)
Weld 32	Oxy-Acetylene Welding(3)
Weld 34	Gas Shielded Arc Welding (3)
Weld 36A	Advanced Welding(3)

25.5	Veld 36B	Advanced Welding(3)	II. Acceptable co	ourses for the certificate
	Veld 36C	Advanced Welding(3) Sheet Metal Fundamentals(3)	Auto Tech 56	
5000	Veld 38	40 WH	Auto Tech 57	
		ourses for the major (minimum of three	Auto Tech 58 Auto Tech 59	
u	nits required	from the following courses)		Small Gasoline Engines
Α	g 28	Heavy Equipment Operation	Weld 30	Arc Welding 3
	- 05	and Maintenance(5)	Weld 32	Oxy-Acetylene Welding 3
	ng 35 ng 36	Fluid Power(4) Agricultural Construction(3)		
	ng 38	Electricity on the Farm(3)	AUTO E	ODY REPAIR AND PAINTING
	.g 00	Liberiotty on the Fallin Fill (e)		Certificate Program
			Twenty-four to 27	units are required to complete the Auto
	AER	TIEICATE	Body Certificate F	
	JEN	RTIFICATE	Auto Tech 50	Shop Mathematics, if required 3
			Auto Body 70	Auto Body Repairing & Painting 5
	PR	OGRAMS	Auto Body 71	Advanced Auto Body Repair and
		Oditalio	Auto Body 72	Painting 5 Auto and Light Truck Major
			Auto body 12	Collision Repairing 5
			Auto Tech 53	Brakes and Suspension 3
	F	TELD ARCHAEOLOGY	Weld 30	Arc Welding 3
		Certificate Program	Weld 32	Oxy-Acetylene Welding 3
Forty-	four units re	quired for the certificate		Total Units 24-27
Anthro		Physical Anthropology 3		urses may be substituted for any of the
Anthro		Cultural Anthropology 3	above required co	urses except Auto Body 70 and Auto Body
Anthro	T	Introduction to Archaeological Site	3 57 70 00 00 10 10 10	
		Surveying 3	Auto Tech 54	Electrical and Fuel Systems 3
Anthro	o 3B	Introduction to Archaeological	Auto Tech 58 Weld 34	Automotive Air-Conditioning 3 Inert Gas Shielded Arc Welding 3
Anthro	- 20	Excavation	446IU 34	mert das Silielded Aic Welding 3
Anthro		Advanced Archaeological Survey 3 Advanced Archaeological		
Antin	0 00	Excavation 3		BANKING
150000000000000000000000000000000000000	200 Y 💇			DAIMING
Anthro	0 4	California Indians 3		Certificate Programs
Anthro		Archaeology: Theory, Prehistory		Certificate Programs
Anthro	0 5	Archaeology: Theory, Prehistory and Laboratory 3	ADMIN	Certificate Programs ISTRATIVE CERTIFICATE IN
Anthro	0 5 OR	Archaeology: Theory, Prehistory and Laboratory	ADMIN	
Anthro Bio 3 Bot 1/	0 5 OR A	Archaeology: Theory, Prehistory and Laboratory		ISTRATIVE CERTIFICATE IN BANK OPERATIONS
Anthro	0 5 OR A A	Archaeology: Theory, Prehistory and Laboratory	Bus 1A	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 1/2 Eng 1/2	0 5 OR A A 1 OR	Archaeology: Theory, Prehistory and Laboratory		ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1	0 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	o 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1	o 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	o 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	o 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	o 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	o 5 OR A A 1 OR 11	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	O 5 OR A A 1 OR 11 Jrn 5	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Bio 3 Bot 14 Eng 1 Geog Geol 1	O 5 OR A A 1 OR 11 Jrn 5	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/2 Eng 1/2 Geog Geol 1 Ph 5/3 Zool 1	OF OR A 1 OR 11 Jrn 5 IA	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/A Eng 1/A Geog Geol 1 Ph 5/A Zool 1	OR A A 1 OR 11 Jrn 5 IA AUT	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting 4 Principles of Accounting 4 Management Concepts of Supervision 3 Human Relations in Management 3 Principles of Bank Operations 3 Select any two of the following electives Business Law 3 Business Correspondence 3 Principles of Economics 3 Oral Communication 3 Total Units 23
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re	OR A A 1 OR 11 Jrn 5 1A AUT -one to 34 unequired cour	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re	OR A A 1 OR 11 Jrn 5 1A -one to 34 unequired couruito Tech 50	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re At	OR A A 1 OR 11 Jrn 5 1A -one to 34 unequired couruito Tech 50 uto Tech 51	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re At	OR A A 1 OR 11 Jrn 5 1A -one to 34 unequired couruito Tech 50 uto Tech 51	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A Bus 1A Bus 1B	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re All All	OR A A 1 OR 11 Jrn 5 1A -one to 34 unequired couruto Tech 50 uto Tech 51 uto Tech 52	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A	Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re All All All	OR A A 1 OR 11 Jrn 5 1A AUT -one to 34 unequired cour uto Tech 50 uto Tech 51 uto Tech 52 uto Tech 53	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A Bus 1A Bus 1B Bus 60	ISTRATIVE CERTIFICATE IN BANK OPERATIONS Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re An An An	OR A A 1 OR 11 Jrn 5 1A AUT -one to 34 unequired cour uto Tech 50 uto Tech 51 uto Tech 52 uto Tech 53 uto Tech 54	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A Bus 1A Bus 1B Bus 60 Bus 61	Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re All All All All All All All All All Al	OR A A 1 OR 11 Jrn 5 1A AUT -one to 34 unequired cour uto Tech 50 uto Tech 51 uto Tech 53 uto Tech 54 uto Tech 54 uto Tech 55	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A Bus 1A Bus 1B Bus 60 Bus 61 Bus 62	Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re All All All All All All All All All Al	OR A A 1 OR 11 Jrn 5 1A AUT -one to 34 unequired cour uto Tech 50 uto Tech 51 uto Tech 52 uto Tech 53 uto Tech 54	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A Bus 1A Bus 1B Bus 60 Bus 61 Bus 62 Bus 5A	Principles of Accounting
Anthro Bio 3 Bot 1/4 Eng 1/4 Geog Geol 1 Ph 5/3 Zool 1 Thirty I. Re All All All All All All All All All Al	OR A A 1 OR 11 Jrn 5 1A AUT -one to 34 unequired cour uto Tech 50 uto Tech 51 uto Tech 53 uto Tech 54 uto Tech 54 uto Tech 55	Archaeology: Theory, Prehistory and Laboratory	Bus 1A Bus 1B Bus 6 Bus 7 Bus 60 Bus 5A Bus 42 Econ 1 Sp 1 CREDIT A Bus 1A Bus 1B Bus 60 Bus 61 Bus 62	Principles of Accounting

CERTIFICATE PROGRAMS

Bus 63 Bus 64 Econ 1 Sp 1	Financing Business Enterprises	Math 51 Eng 51 OR Eng 56B Clerk Typist:	Basic Mathematics (if required) 3 The Communication Process Writing Fundamentals 3 Total Units 23-28
GENERAL CERTIFICATE IN BANK SERVICES***		Bus 21AB	Proficiency-Exit Typewriting 2-2
Bus 5A Bus 10A Bus 21AB Bus 23 Bus 40 Bus 60	Business Law	Bus 22 Bus 23 Bus 24 Bus 39 Math 51	(50 wpm skill level required) Machine Transcription
	Select any two of the following electives	Eng 51 OR Eng 56B	The Communication Process Writing Fundamentals
Bus 7 Bus 39 Bus 41	Human Relations in Management 3 Office Procedures	Secretary Stenog	Total Units 23-28 rapher:
	Correspondence	Bus 21AB Bus 22 Bus 23 Bus 24 Bus 32AB	Proficiency-Exit Typewriting
dent is excused	f from Bus 21B. substituted if student has completed 1 year	Bus 39 Bus 40 Bus 41 OR	(90 wpm skill level required) Office Procedures
	ank tellers, file clerks, bookkeepers, etc. or secretarial staff members.	Bus 42 Eng B OR Eng 1A	Business Correspondence 2 or 3 Basic English Composition Reading and Composition 3
SECRETARY	CERTIFICATE IN BANK SERVICE	Math 51	Basic Mathematics (if required) 3 Total Units 23-32
Bus 5A Bus 21AB	Business Law	Bookkeeper-Tech	
Bus 32AB Bus 40 Bus 41 OR Bus 42 Bus 60	Dictation and Transcription Lab** .3-3 Grammar and Usage	Bus 10A Bus 10B Bus 23 Bus 24 Bus 25	Practical Bookkeeping
	Select any two of the following electives	Math 51	Basic Mathematics (if required) 3
Bus 7 Bus 23 Bus 39	Human Relations in Management 3 Office Machines	Eng 51 OR Eng 56B	The Communication Process Writing Fundamentals
Bus 50 Sp 1	Introduction to Data Processing 3 Oral Communication		CARPENTRY Certificate Program
*Minimum skill level of 60 net words per minute required to qualify for certificate. If skill level attained in Bus 21A student is excused from Bus 21B. **Minimum skill level of 90 words per minute required to qualify for certificate. If attained in Bus 32A, student is excused from Bus 32B.		Carp 1 Carp 2 Carp 3 Carp 4 Carp 5 Carp 6 Carp 7	The Apprenticeship and Math 3 Pre-job and Plot Planning 3 Rough Framing 3 Interior and Exterior Finish 3 Stair Building 3 Concrete and Forms 3
	BUSINESS Certificate Program	Carp 8	Heavy Timber Construction and Welding
District Control (1995) (1995) In the Control of t	: e Clerk - Small Business Records)		COSMETOLOGY Certificate Program
Bus 10A Bus 21AB Bus 22 Bus 23 Bus 24	Practical Bookkeeping 3 Proficiency-Exit Typewriting 2-2 (40 wpm skill level required) Machine Transcription 1 Office Machines 3 Records Management 3 Business Electives 8	Cos 50A Cos 50B Cos 52A Cos 52B Cos 54A	Introduction to Cosmetology

*	Y CHILDHOOD EDUCATION Certificate Program		IENTAL MANAGEMENT—PUBLIC RVICE ADMINISTRATION Certificate Program
ECE 20/Psych 20			Certificate Program
ECE 21/Psych 21	Children	Bus 8 Bus 70	Personnel Management 3 Fundamentals of Governmental
ECE 22/Psych 22	Principles of Child Development and Observation 3	Bus 71	Management
ECE 23/Psych 23	Early Childhood Developmental Curriculum	Bus 72	Management
ECE 25/Psych 25	Field Experience 3		Select any three of the following courses
	Total Units 15	Bus 6	Management Concepts of Supervision
	ELECTRONICS Certificate Program	Bus 7 Bus 50	Human Relations in Management 3
Basic Electronics	:	WE Occ 82 OR WE Occ 83	Introduction to Data Processing 3 Labor and the Economy Laws Affecting Employees 4
Electronics 1A Electronics 1B Electronics 2 Electronics 3	Basic Electronics	WE Occ 83	Total Units 21-23
Electronics 5	Practical Digital Electronics 3 Total Units	GRAP	HIC ARTS MULTI-MEDIA Certificate Program
Intermediate Elec	tronics Certificate:	Fourteen units red	▼# 01/090-004220
Possession of the Electronics 4	Basic Electronics Certificate	GA 10 GA 11 GA 12 GA 22 OR GA 20	Graphic Communications I
EMERG	ENCY MEDICAL TECHNICIAN Certificate Program		Total Units 14
EMT 1/A	Emergency Medical Technician 1/ Ambulance5.5 Total Units5.5	GR/	APHIC ARTS — PRINTING Certificate Program
	FIRE SCIENCE	Eleven units requ	ired
		Elovoii aimo roga	
	Certificate Program	GA 20	Offset Printing 1 3
Fire Sci 81 Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85	Introduction to Fire Science	26 - Value (1975) 12 (1976) 13 (1976) 14 (1976	AMI29-305
Fire Sci 82 *Fire Sci 83 Fire Sci 84	Introduction to Fire Science	GA 20 GA 21 GA 22	Offset Printing I
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23	Offset Printing 1
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23 Required courses Psych 5	Offset Printing 1
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51 *Math 51 or equi	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23 Required courses Psych 5 Eng 51	Offset Printing 1
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51 *Math 51 or equi Science 83.	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23 Required courses Psych 5	Offset Printing 1
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51 *Math 51 or equi Science 83.	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23 Required courses Psych 5 Eng 51	Offset Printing 1
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51 *Math 51 or equi Science 83.	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23 Required courses Psych 5 Eng 51 PE	Offset Printing 1
Fire Sci 82 *Fire Sci 83 Fire Sci 84 Fire Sci 85 Fire Sci 86 Fire Sci 87 *Math 51 *Math 51 or equi Science 83. Twenty-five units Geron 1	Introduction to Fire Science	GA 20 GA 21 GA 22 GA 23 Required courses Psych 5 Eng 51 PE	Offset Printing 1

CERTIFICATE PROGRAMS

		HEAVY MACHINERY Certificate Program	Psych 17 Psych 20	Social Psychology
Total of 35	units re	equired for the certificate	Psych 26/	Children 3
Required of	courses:		ECE 26	Psychology of Parenthood 3
HM 35		Heavy Equipment Operation and	Psych 30	Psychology of Adolescence 3
11101 00		Maintenance 5	Psych 35	Developmental Psychology: Conception to Death
HM 36		Power Transmission Systems 5	Psych 40	Psychology of Crisis Counseling 3
Ag 33A		Farm Power 5	Psych 46/	The Mentally III, Alcoholic,
Ag 33B		Farm Power	LE 46	Drug Addict, and the Law 3
Ag 35 Ag 37		Small Gasoline Engines 3	Sociol 2 Sociol 41/	Contemporary Social Problems 3 Mass Sociology and Collective
9		27	LE 41	Behavior 3
and eight (8) units t	to be selected from the following courses:	3	Total Units 24
Ag 50		Shop Mathematics 3		LAW PAIRODOPHICA
Weld 30 Weld 32		Arc Welding 3		LAW ENFORCEMENT Certificate Program
WE Gen 70	O.	Oxy-Acetylene Welding 3 Personal Efficiency		Certificate Frogram
WE Gen 71	53	Motivation 3	LE 21	Intro. to Administration of Justice 3
WE Gen 72		Labor and the Economy 3	LE 33	Concepts of Criminal Law 3
WE Gen 73	3	Laws Affecting Employees 3	LE 35 LE 36	Legal Aspects of Evidence 3 Principles and Procedures of the
		Total Units 35	LE 30	Justice System
			LE 37	Juvenile Control 3
	1	HUMAN RELATIONS	LE 38	Community Relations 3
		Certificate Program		Total Units 18
Couns	eling,	s: Community Mental Health Worker, School, Social Services, Personnel, counseling and Supervision	2 20	LEGAL ASSISTANT Certificate Program
Twenty-for	ur units	required for the certificate	Bus 5A LA 1	Business Law
=		ses for the certificate	LA 2	Library Science & Legal Writing 3
			LA 3	Civil Procedures I 3
Psych		General Psychology	LA 5	Tort Law 3
rsych	3/ IA 3	Social Adjustment 3	LA 6 LA 7	Criminal Law
Psych	9/HR 9	Interviewing and Counseling 3	LA 8	Corporations and Taxation
Psych	11AB/	TO THE PARTY OF TH	LA 9	Family Law
HR 11/		Practicum3-3	LA 10	Bankruptcy-Creditor/Debtor 3
Sociol		Principles of Sociology 3	LA 11	Real Estate for Legal Assistance 3
		val of his/her counselor and the Division	LA 12	Wills/Trusts/Probate
		student will select a minimum of nine ng on areas of emphasis) from the follow-		Total Units 36
		is considered advisable for students in	DAG	IC LIBRARY TECUNICIAN
		f emphasis to take more than nine units	BAS	IC LIBRARY TECHNICIAN Certificate Program
from th	he list be	elow.		TO AND AND AREA DESCRIPTION OF THE STATE AND
Anthro	2	Cultural Anthropology 3	LT 51	Introduction to Library Services 3
Bus 6		Management Concepts of	LT 52 LT 53	Support for Technical Services 3 Support for Public Services 3
Due 7		Supervision	LT 54	Intro. to Audio-Visual Services 3
Bus 7 Bus 50	1	Human Relations in Management 3 Introduction to Data Processing 3	LT 55	Cataloging and Classifying 3
Bus 79		Public Relations Techniques 3		Total Units 15
HR 8/F	Psych 8	Personal & Career Development 3	MARKE	TING CALES TECHNOLOGY
	Psych 10	Small Group Leadership 3	MARKE	TING—SALES TECHNOLOGY Certificate Program
Jrn 3	1D	Mass Communications		Certificate Frogram
Psych Psych		Advanced General Psychology 3 Intro. to Physiological Psychology 3	Eighteen units red	quired for the certificate
Psych		Psychology of Effective Behavior 3	Bus 2	Introduction to Business 3
Psych			Bus 4	Principles of Marketing 3
HR 11/		Practicum3-3	Bus 13	Applied Business Law
Psych		Elementary Statistics	Bus 14	Practical Salesmanship 3
Psych		Abnormal Psychology 3	Six units to be sel	lected from the following courses:
Psych		Social and Psychological Dynamics	Bus 1A	Principles of Accounting 4
	40	of Drug Use 3	Bus 10A	Practical Bookkeeping 3
Psych	16	The Psychology of Interpersonal	Bus 21AB Bus 23	Proficiency—Exit Typewriting2-2 Office Machines

Bus 65 Econ 1	Retail Sales Checking		tional units ma	owing options must be completed. Addi- y be taken from other options and/or Area courses for the certificate) to total 14-15
	REAL ESTATE Certificate Program			Option A
	tory completion of the following courses,		PL 20 PL 21	Literary Braille
	e eligible for the California Junior College icate which is issued in cooperation with			Option B
the California Divi	sion of Real Estate and the California Real		PL 10	Beginning Communication with
Program. Bus 90	Real Estate Principles 3		PL 11	the Deaf
Bus 91	Real Estate Practices 3			Option C
Bus 92A Bus 92B Bus 93 Bus 94A	Legal Aspects of Real Estate 3 Legal Aspects of Real Estate 3 Real Estate Finance 3 Real Estate Appraisal 3		PL 33 PL 34	Introduction to Audiology
Bus 94B	Real Estate Appraisal			Option D
Bus 95	Real Estate Economics		HA 15A OR HA 15B OR HA 15C	Hospital Nursing Assistant Community Health Aide
	RECREATION Certificate Program		HA 15C	Developmental Disability/Mental Retardation Aide 9
Rec 70	Introduction to Leisure 3	H.	Acceptable co	ourses for the certificate
Rec 72	Outdoor Recreation 3		PE 62AB	Physical Education for Special
Rec 73 Rec 74	Recreation for Special Groups 4 Intro. to Community Recreation 3		PL 2B	Olympics
PE 14	Recreational Games 1			- the Physically Limited Person 2
Two units s	elected from the following courses		PL 12	Advanced Communication with the Deaf
Art 31 PE 59AB	Crafts		PL 13AD	Communication with the Deaf in the College Classroom1-1-1-1
PE 60AB	Sports Officiating, Women3-3		PL 30	Intro. to Speech & Language 3
PE 61	Physical Education in the Elementary School		PL 31	Interview and Testing Techniques for Speech & Hearing Problems 3
PE 62AB	Physical Education for Special		PL 32	Behavior Modification Techniques
Rec 71	Olympics		PL 40	for Speech & Hearing Pathology 3 Introduction to Physical Therapy 3
Two units s	elected from the following courses		PL 41	Intro. to Occupational Therapy 3
PE 2ABCD	Gymnastics, Coed1-1-1-1		Psych 3	Psychology of Personal and Social Adjustment
PE 4ABCD PE 5ABCD	Badminton, Coed1-1-1-1 Swimming, Coed1-1-1-1		Psych 9	Interviewing and Counseling 3
PE 6	Lifesaving 2		Rec 73 Sociol 1	Recreation for Special Groups 4 Principles of Sociology 3
PE 12ABCD PE 17ABCD	Tennis, Coed		Sp 1	Oral Communication 3
PE 18ABCD	Gold, Coed1-1-1-1		Sp 30	Voice & Articulation Development 3
PE 25ABCD PE 26ABCD	Folk Dance, Coed1-1-1-1 Modern Dance, Coed1-1-1-1			
PE 27ABCD	Disco Dance, Coed1-1-1-1			TEACHER AIDE
	Total Units 18			Certificate Program
REHABIL	ITATION TECHNICIAN FOR THE	Tw	enty-four units	required for the certificate
	PHYSICALLY LIMITED Certificate Program	f.,	Required coul	rses for the certificate
-			TA 1	Intro. to Instructional Associate 3
	enty-six units required for the certificate rses for the certificate		TA 3/Psych 3 TA 4/ECE 4	Personal and Social Adjustment 3 Bilingual-Multicultural Curriculum and Instruction
	7/Understanding Exceptional		TA 6/ECE 6	Language Development for Young
ECE 27 PL 2A	Students 3 Practicum Experience to Work with		TA 8/ECE 8	Children
	the Physically Limited Person 2		TA 9	Field Experience 3
Psych 1A OR Psych 5	General Psychology Psychology of Effective Behavior . 3		Psych 20	// Developmental Psychology of Children
Eng 51 OR	The Communication Process Reading and Composition			Creative Learning Experiences for Young Children 3
Eng 1A	Todaling and Composition		1 3you 24	ior roung officient

VOCATIONAL NURSING

	Certificate Program
Psych 5 VN 50 VN 51 VN 52 VN 53 VN 54 VN 55 VN 55	Psychology of Effective Behavior 3 (or Psych 1A, if eligible) Medical-Surgical Nursing I
WATER	TREATMENT TECHNOLOGY Certificate Program
WT 1 WT 2 WT 3 WT 4 WT 6 WT 7	Water Treatment Plant Operator I 4 Water Treatment Plant Operator II 4 Waste Water Treatment I 4 Waste Water Treatment II 4 Computational Procedures for Treatment Plant Operator I 3 Computational Procedures for Treatment Plant Operator II 3 Computational Procedures for Treatment Plant Operator III 3 Total Units
	WELDING Certificate Program
Weld 30 Weld 32 Weld 34 Weld 36A Weld 38	Arc Welding
Six units to be sel	ected from the following courses:
Ag 35 Ag 36 Ag 37 Ag 38	Heavy Equipment Operation and Maintenance
OCCUPA	TIONAL WORK EXPERIENCE Certificate Program
Twenty-eight units	required
WE Occ 80 WE Occ 81 WE Occ 82 WE Occ 83	Personal Efficiency
	the student's planned course of occupa- approved by the Dean of Vocational- on.

Total Units 28

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	A	Credit by Examination
		Credit for Upper Division Course Work
and the property of the control of the		Credit Classes
	ssal 20	Curricula, Occupational 24
	tion 19	*
	val	D
		Deadline Dates
그 사용 하면 하는데 나는데 보겠다고 하는데 그 얼마나 되었다.	nt 16	Degrees
	6	Dismissal Policies
		Directors and Coordinators 7
	fers	Division Chairpersons 7
	nts	Dramatic Art
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	s of High School	E
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	School Students	Early Childhood Education
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5.5	erans Administration 2	Engineering
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	ence Degree 15, 21	Evening College
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Business	32	General Education
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	ams	German
	ivision	Gerontology
	Catalog	Governmental Management
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	, Change in	Grade Reports, Semester
	, Change III	Grades
		Grading System
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