Imperial Valley College Hwy 111 & Ira Aten Rd. Imperial, CA 92251-0158 (619) 352-8320





GENERAL CATALOG 1985 - 1987



IMPERIAL VALLEY COLLEGE 1985-1987

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

P.O. BOX 158
Highway 111 and Aten Road
IMPERIAL, CALIFORNIA 92251-0158
Phone 619-352-8320
IMPERIAL COUNTY

IMPERIAL VALLEY COLLEGE

ACCREDITED

bv

Accrediting Commission for Junior Colleges
Western Association of Schools and Colleges
The State Department of Education
American Welding Society
Commission on Peace Officers Standards and Training
California Board of Registered Nursing
California Board of Vocational Nurse and Psychiatric Examiners

A MEMBER of

California Community and Junior College Association

APPROVED for
The Veterans Administration

TABLE OF CONTENTS

	2015
COLLEGE CALENDAR	
PERSONNEL	
Board of Trustees, Administration	
Division Chairpersons, Directors and Coordinators	
Faculty	
Emeritus Faculty	
GENERAL INFORMATION	
History	
Facilities	
Library	
Mission and Goals	1
Types of Courses and Programs	1
Evening College	I
External Campus	1
Work Experience Program	1
Honors Program for High School Students	1
Physically Limited Program	1
Degrees	1
Scholastic Honors Financial Assistance	10
Expenses	
Refund Policy	1
Parking Permit	
Accreditation	
Counseling Services	1
Student Activities	1
Bookstore, Snack Bar and College Center	1'
Athletics	1
Learning Supportive Services	1
REGULATIONS	1/
Admission	
Transcripts	
Family Educational Rights & Privacy Act	1
Affirmative Action Policy	18
Nondiscrimination Policy	1
Residence Requirements	13
Study List Limitations	19
Short Term Classes	19
Changes in Class Schedules	I
Scholarship Grading System	15
Student Conduct	
Probation	
Provisional Status	
Petition and Hearing Process	2
Attendance and Automatic Withdrawals	2
Withdrawal from College	
Academic Dismissal	2
Physical Education	22
Changes in the Catalog	22
GRADUATION REQUIREMENTS	- 00
CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES	64
TRANSFER REQUIREMENTS	21
OCCUPATIONAL CURRICULA	26
COURSES OF INSTRUCTION	27
MAJORS	74
TEACHER PREPARATION	88
CERTIFICATE PROGRAMS	90
INDEX	97

IMPERIAL VALLEY COLLEGE 1985 - 1986 SCHOOL CALENDAR

1985			
1700		T 1	Registration
August	27	Tuesday	Registration
	28	Wednesday	Negistration
	0	Monday	Holiday (Labor Day)
September	2	170 c	Faculty Service Day
	3	Tuesday	Fall Semester Classes Begin
	4	Wednesday	Tall Comester Comes
NT 1	11	Monday	Holiday (Veteran's Day)
November	28	Thursday	Recess (Thanksgiving)
		76	Recess (Thanksgiving)
	29	Friday	
D 1	16	Monday	Final Exams Begin (Evening Classes)
December	19	Thursday	Last Day of Final Exams (Evening Classes)
		Monday	Recess (Christmas)
ų:	23	Monday	
*			Arrest 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
1986			Mary Harrison College
•	3	Friday	Last Day of Recess (Christmas)
January	14	Tuesday	Registration
		Wednesday	Registration
	15		Final Exams Begin (Day Classes)
	17	Friday	Last Day of Final Exams (Day Classes)
	23	Thursday	Non-Service Day
	24	Friday	Spring Semester Classes Begin
	27	Monday	
Calamana	14	Friday	Holiday (Lincoln's Birthday)
February	17	Monday	Holiday (Washington's Birthday)
	17	27 <u>a.m. 1940001</u> 16-70004-9000 ♥ is 5 mm2000	
March	24	Monday	Recess (Spring)
	28	Friday	Last Day of Recess (Spring)
	19	Monday	Final Exams Begin (Evening Classes)
May	22	Thursday	Last Day of Final Exams (Evening Classes)
			Holiday (Memorial Day)
	26	Monday	Final Exams Begin (Day Classes)
	30	Friday	
June	5	Thursday	Last Day of Final Exams (Day Classes)
Julie	6	Friday	Non-Service Day
	7	Saturday	Graduation (Service Day)

IMPERIAL VALLEY COLLEGE DEADLINE DATES

FALL SEMESTER 1985

st Day o	First Day of Classes
st Day to	Last Day to Add or Register (End of 2nd Week)
	First Census Day (Monday of 4th Week) Last Day to Apply for Tuition Refund
st Day to	Last Day to Apply for Graduation and Certificates
	Last Day to Remove Incompletes for Spring 1985 (End of 6th Week)
cond Ce	Second Census Day (Monday of 11th Week)
어느 맛이 그렇게 그렇게 되었다면 하네.	Last Day to Drop with a "W" Grade - Evening Classes (End of 12th Week)
	Last Day to Drop with a "W" Grade - Day Classes (End of 14th Week)
ial Exam	Final Examinations - Evening Classes
ial Exam	Final Examinations - Day Classes
st Day o	Last Day of Fall Semester 1985
st Census to Day to st Day to of 6th cond Center of 12th st Day to not of 14th and Examinal Examination Examinatio	First Census Day (Monday of 4th Week) Last Day to Apply for Tuition Refund Last Day to Apply for Graduation and Certificat Last Day to Remove Incompletes for Spring 198 (End of 6th Week) Second Census Day (Monday of 11th Week) Last Day to Drop with a "W" Grade - Evening (End of 12th Week) Last Day to Drop with a "W" Grade - Day Clast (End of 14th Week) Final Examinations - Evening Classes Final Examinations - Day Classes

SPRING SEMESTER 1986

January	26	Sunday	Residence Determination Date Spring Semester 1986
January	27	Monday	First Day of Classes
February	7	Friday	Last Day to Add or Register (End of 2nd Week)
February	17	Monday	First Census Day (Monday of 4th Week) Last Day to Apply for Tuition Refund
February	21	Friday	Last Day to Apply for Graduation and Certificates
March	7	Friday	Last Day to Remove Incompletes for Fall 1985 (End of 6th Week)
April	7	Monday	Second Census Day (Monday of 10th Week)
April	25	Friday	Last Day to Drop with a "W" Grade - Evening Classes (End of 12th Week)
May	9	Friday	Last Day to Drop with a "W" Grade - Day Classes (End of 14th Week)
May	19-22	Monday - Thursday	Final Examinations - Evening Classes
May 29 -	June 5	Thursday - Thursday	Final Examinations - Day Classes
June	7	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

MR. CLEM MULLER, JR.

Trustee from area which includes Holtville Unified School District

MR. ROBERT NOBLE

Trustee from area which includes Calexico Unified School District

VACANT

Trustee from area which includes San Pasqual Valley Unified School District

MR. HOWARD WORTHINGTON

Trustee from area which includes Imperial Unified School District

ADMINISTRATION

DR. JOHN A. DePAOLI, JR. Superintendent/President

MR. WILLIAM THORNBURG Vice President for Business Services/ Deputy Superintendent

DR. HECTOR LOPEZ
Vice President for Counseling Services/
Affirmative Action Officer

DR. JAMES D. WALKER Vice President for Academic Services

MR. STANLEY E. ALBERDA Dean of Learning Services MR. RUBEN LOPEZ Dean of External Campus

MR. WILLIAM RUDOLPH
Dean of Vocational-Technical Education

VACANT Dean of Admissions and Student Activities

MRS. ELLEN SAXE
Director of Nursing Education & Health Technologies

MR. MEL WENDRICK Director of Physically Limited and Adaptive Learning Center

DIVISION CHAIRPERSONS

MR. RAY A. WHITE
Chairperson of Division of Agriculture and Automotive Technology

MR. GARY RODGERS Chairperson of Division of Behavioral Science

DR. ROBERT MOORE Chairperson of Division of Business

MR. FRED FISCHER 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

MRS. ELLEN SAXE
Chairperson of Division of Nursing Education and Health Technologies

MR. JIMMY PENDLEY
Chairperson of Division of Science, Mathematics and Engineering

MR. RICHARD HANN Chairperson of Division of Social Science

DIRECTORS AND COORDINATORS

MR. VICTOR JAIME EOPS Director/Financial Aid Coordinator

MR. GARY KOLLENBORN Work Experience Coordinator/Director of Athletics

DR. BARBARA MACCI Director of Early Childhood Programs

MRS. ELLEN SAXE
Director of Nursing Education and Health Technologies

THE FACULTY

AKERS, H. RUSSELL Associate Professor 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

ALVARADO, REBECCA
Assistant Professor
Physical Education
B.A., University of California, San Diego
M.Ed., University of San Diego
M.A., Azusa Pacific University

ANDREWS, MARILYN
Assistant Professor
Psychology
B.A., M.A., California State University, Sacramento

ARAGON, RAUL
Associate Professor
Counselor
B.A., M.S., San Diego State University

ARCHULETA, JOE A. Associate Professor Mathematics, Engineering

B.S., University of Colorado M.A., San Diego State University

ARTECHI, OLGA Associate Professor Counselor

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

BACZUK, JOHN Assistant Professor English

B.A., California State University, San Bernardino M.A., State University of New York

BANKS, STANLEY C. Professor Sociology

B.A., Macalester College M.A., California Western University

BEOPE, FRANCES A. Associate Professor Counselor

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

BERNARD, WILLIS C. Associate Professor Art

B.S., Massachusetts College of Art M.A., California State University, Long Beach BILLINGS, LANELLE
Associate Professor
Business
B.B.A., University of Texas
M.Ed., Southwest Texas State University

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

BORCHARD, MARY KAY Instructor Administration of Justice B.A., San Diego State University

CARBAJAL, THERESA Instructor Nursing Counselor B.A., San Francisco State University M.S., California State University, Sacramento

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

CERDA, ERNESTINE Associate Professor English B.A., San Diego State

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

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

COMSTOCK, SANDRA Instructor Nursing B.S., Chapman College M.P.A., Golden Gate University

CRANLEY, RUTH A.
Assistant Professor
Counselor
B.S., California State University, Fullerton
M.Ed., University of San Diego

DePAOLI, JOHN, JR.
Superintendent/President
B.A., M.A., University of California, Los Angeles
Ph.D., United States International University

DEYO, JEFF Assistant Professor Physical Education B.A., Mount Marty College M.S., West Virginia University

FARRAR, LLOYD
Professor
History
B.A., Oberlin College
M.A., Columbia University

FARRIER, PAUL
Professor
History
B.A., M.Ed., M.A., University of Arizona
FIELDS. MAX

Professor
Physical Education
Chairperson of Division of Health, Physical Education and
Recreation
B.A., Whittier College

M.A., California State Polytechnic University, San Luis Obispo

Ed.D., Montana State University

FISCHER, FRED

FUESLER, JACK B.

Instructor
English
Chairperson of Division of English
B.A., California State University, Chico
M.A., San Francisco State University
M.A., Northern Arizona University

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

GALAMGAM, ADELAIDA Professor Assistant Librarian

E.T.C., Ilocos Norte Normal School B.S.E., Central Philippine College M.S., Ed., University of Southern California

GREEN, PATRICIA Assistant Professor Nursing B.S.N., University of Oregon M.S.N., University of Michigan

GREVATT, JAMES Associate Professor Psychology B.A., San Diego State University M.A., La Verne College

GRIFFIN, WILLIAM A. Professor Business B.S., University of North Dakota M.A., Colorado State University

GUZMAN, CESAR Associate Professor Counselor B.A., Adams State College M.S., La Verne College

HANN, CAROL Associate Professor English B.A., California Lutheran College M.A., University of Denver HANN, RICHARD K.
Professor
Philosophy
Chairperson of Division of Social Science
A.B., California State University, Chico
M.A., San Francisco State University

Professor Physical Education B.A., American International College M.A., Boston University

HILLHOUSE, ROSANNE R.
Professor
English
B.A., M.A., University of Oxford

HEBERT, ROGER

HUNT, DAVID
Instructor
Agriculture
B.S., California State University, Chico
M.S., California State Polytechnic University,
San Luis Obispo
JAIME, VICTOR

EOPS Director/Financial Aid Coordinator B.A., University of California, Irvine M.S., San Diego State University

JEFFCOAT, KENDRA
Associate Professor
Psychology, Speech
B.A., M.A., University of California, Los Angeles
M.A., Connecticut College

JERGE, MICHAEL J.
Professor
Business, Economics
B.A., M.B.A., University of Arizona

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

KALIN, JANEEN
Counselor
B.A., M.A., California State Polytechnic University,
San Luis Obispo

KELSOE, LEON
Professor
Physical Education
B.A., M.Ed., Whittier College
KNOWLTON, ROGER

Associate Professor
Mathematics
B.S., Idaho State University
M.S., Clarkson College of Technology

KOLLENBORN, RICHARD Associate Professor Work Experience Coordinator Director of Athletics B.A., M.A., California State University, Chico LEGARRA, STANLEY
Associate Professor
Physical Education
B.S., M.A., University of Wyoming

LEPTICH, DEAN A.

Professor Speech

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

LOPEZ, HECTOR

Vice President for Counseling Services B.A., M.A., Ed.D., Northern Arizona University ED.S., University of New Mexico

LOPEZ, JOSE Assistant Professor Automotive Technology Cert. Auto Tech., Los Angeles Trade Tech.

LOPEZ, ROSALIE
Assistant Professor
Counselor
B.A., San Diego State University
M.Ed., University of San Diego

LOPEZ, RUBEN O.
Dean of External Campus
B.A., M.A., Adams State College
FD.S., University of New Mexico

LOPEZ, SERGIO
Assistant Professor
Counseldr
B.A., San Diego State University
M.Ed., University of San Diego

LOWE, JUANITA Professor Art

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

MACCI, BARBARA
Associate Professor
Director of Early Childhood Programs
B.A., San Diego State University
M.Ed., University of San Diego
Ed.D., Northern Arizona University

MARKS, BETTY
Instructor
Nursing
R.N., L.D.S. School of Nursing, Idaho Falls, Idaho

McCORMICK, JOHN M.
Professor
English
B.A., California State University, Long Beach
M.A., Northern Arizona University
McMULLIN, LINDA A.
Instructor
English

English
B.A., Lewis and Clark College
M.A., University of Arizona
MELLINGER, ELWOOD J.
Professor
Agriculture
B.S., M.A., Michigan State University

MILLER, FONDA
Instructor
Master Preschool Teacher
B.A., Otterbein College
M.S., Iowa State University of Science Technology

MINARD, C. MARYLYNN C.

Instructor Nursing

B.S.N., University of Connecticut

MOORE, ROBERT
Professor
Business
Chairperson of Division of Business
B.S., Auburn University
M.A., California State University, Fresno
Ph.D., United States International University

MORRIS, TERRY Assistant Professor Psychology B.S., M.S., Indiana University

MUNGUIA, SUSAN I.

Counselor B.A., University of California, Irvine

NADEAU, NANCY Associate Professor English B.A., Florida State University

M.A., University of California, Los Angeles

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

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

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

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

PENDLEY, J.R.
Professor
Biology
Chairperson of Division of Science, Math, Engineering
B.S., M.S., San Diego State University

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

PETERSON, AVIS R. Instructor Nursing

B.S.N., M.S.N., Montana State University

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

RICE, PAULINE BENOIT Professor

French, Humanities, English, Spanish B.A., Rice University

M.A., Baylor University

M.A., University of California, Santa Barbara

RICHWINE, HAROLD J., JR. Professor Chemistry B.S., Shippenburg State College

M.S., Bucknell University

RODDEN, ROSE

Associate Professor

Health Education R.N., St. Anthony's Hospital B.V.E., San Diego State University

M.A.V.E., Consortium of California State Universities and Colleges

RODGERS, GARY R.
Instructor
Administration of Justice
Chairperson of Division of Behavioral Science
A.B., San Diego State University
M.S., National University

RODRIGUEZ, DIANNE Counselor B.S., San Diego State University M.Ed., University of San Diego

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

SANTOS, RAFAEL
Associate Professor
Business
B.S., Arizona State University
M.Ed., University of Arizona

SAXE, ELLEN
Director of Nursing Education and Health Technologies
A.A., Arizona Western College
B.S.N., Arizona State University
M.A., Sam Houston State University

SCHNEEWIND, V. JEAN
Assistant Professor
Nursing
R.N., A.S., Imperial Valley College
B.A., San Diego State University
B.S.N., Consortium of California State Universities and
Colleges

SIEHIEN, FRANK Instructor

Instructional Specialist for the Physically Limited B.A., M.A., Ph.D., Arizona State University

SMITH, MARY MARGARET

Associate Professor English

B.A., University of Northern Colorado M.A., San Diego State University

SPEER, WILLIAM R.

Professor English

A.B., University of Chicago

M.A., California State University, Los Angeles

STANDIFORD, SANDRA

Professor Counselor

B.A., University of Missouri

M.S., California State University, Los Angeles

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

STONE, JAMES R.
Professor
Music, Mathematics
B.E.E.E., North Carolina State University
B.M., Westminster Choir College
M.M., University of Southern California

SUCZEK, PETER
Associate Professor
Psychology, Sociology
B.A., San Jose State University
M.A., University of California, Santa Barbara

THOMPSON, BLAINE R.

Professor Business

B.S., M.S., University of Utah

THORNBURG, WILLIAM J.
Vice President for Business Services
Deputy Superintendent
B.A., University of Redlands
M.S., San Diego State University

VALENTINE, BARBARA H.
Assistant Professor
Early Childhood Education
B.A., Arizona State University
M.A., Northern Arizona University

VALENTINE, MARTIN Associate Professor B.A., Arizona State University M.Ed., University of Arizona

von WERLHOF, JAY Associate Professor Anthropology

11

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

10

WALKER, JAMES D.
Vice President for Academic Services
B.S., Minot State College
M.S., North Dakota State University
Ph.D., United States International University

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

M.A., University of Michigan

WATKINS, RAYMOND
Instructor
Agriculture
B.S., M.S., California State University, Chico

WENDRICK, MELVIN
Director of Physically Limited and Adaptive
Learning Center
B.A., Sacred Heart Seminary

M.Div., Saint John's Provincial Seminary

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

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

WILSON, PATRICIA

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

Professor
English
B.A., University of California, Santa Barbara
M.A., California State University, Dominguez Hills

EMERITUS FACULTY

HINSHAW, JOHN Mathematics 1942-73

LEONARD, THOMAS Psychology 1964-72

NOVAK, RUTH Counselor 1958-72

UPSON, JOHN English 1966-77

GARTIN, HERBERT Psychology 1966-78

MOORE, ERNEST Business 1970-78

SPENCER, TERREL Superintendent/President 1963-78

BARKER, MICHAEL Anthropology 1968-79 WHITE, HOWARD Law Enforcement 1969-79

SWANN, MARIE English 1964-80

WEISSMAN, HARRY English

1969-80 OVERMAN, RUTH

Business 1965-81 BARKALOW, N.C.

BARKALOW, N.C. Law Enforcement 1974-81

FINNEY, DEE Physical Education 1967-81

FINLEY, LUTHER Engineering 1960-81

GENTRY, GLENN A. Work Experience 1967-81 SAMUELS, CARMEN Nursing 1971-81

SAMSON, WALTER History

1963-82

LEWIS, STANLEY H. Agriculture/Heavy Equipment Mechanics 1969-83

ANDERSON, LESLIE Law Enforcement 1967-83

1966-84

LARSSON, HAROLD

BACON, JEANNE Instruc. Specialist for the Physically Limited

BRUNGARDT, MARTHA Nursing

1972-85 DUFF, JACK Counselor 1981-85

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 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 community college district be established in Imperial County was submitted to the State Department of Education and was approved on July 10, 1959. The County Superintendent of Schools then set a date for

an election at which all qualified voters residing within the boundaries of the seven high school and unified school districts were eligible to vote. The election was held on October 6, 1959; and by an overwhelming vote of twelve to one, the Imperial Valley Junior College District was established. This was followed by the election of the members of the Junior College District Board of Trustees, one of whom comes from each of the seven high school or unified school districts represented in the area served by the Imperial Junior College District.

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

Because of the increase in enrollment at both Central Union High School and the Imperial Valley College, and because of the lack of space on the campus of the Central Union High School in El Centro, the Imperial Valley College moved to temporary quarters erected on the campus of the Imperial Valley Union High School in Imperial, California.

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

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

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

FACILITIES

On October 29, 1961, an impressive ground-breaking service was held for the new campus. Board members manned giant earth-moving equipment to break ground for the project. The new buildings included a library, science laboratories, fine arts rooms, student activities building, academic classrooms, administration and faculty offices, social science rooms, physical education shower and locker rooms, and agricultural education classrooms and shop. The new campus opened in 1962.

A steady growth pattern began in April of 1967 with the addition of the multi-purpose building. The building was designed to house sporting and theater events, and was comparable to any such community college structure in the State. Three other projects followed which were completed through community donations: The Janey Jackson Memorial Fountain, 1969; the renovation of the Holtville Train Depot, located in the cactus garden, 1971; and the Meyer Center for Business and Commerce. The Meyer Center was dedicated February 20, 1972, at ceremonies commemorating the 50th anniversary of the Imperial Community College District. Also recognized the same day was the opening of the archaeological museum at 442 Main Street in El Centro in buildings donated by H. P. Meyer and the new agriculture-welding complex. The museum was later named the Barker Museum, honoring Michael Barker, deceased. Mr. Barker was an IVC archaeology instructor.

Other building projects which followed were: Associated Students Activities Building, 1971; the new Library/Media Center, 1975, which was later named the Spencer Library Media Center, honoring Terrel Spencer, President Emeritus; the swimming pool complex, 1975; remodeling of the Student Union and the cafeteria into the College Center complex, 1977; and the preschool, 1981, which was constructed off Highway 111 on a section of the campus named Rider Park, honoring Amos R. Rider, deceased. Mr. Rider served as the first custodian and maintenance supervisor at the new campus in 1961. Additionally, a modernization of facilities to remove architectural barriers to the handicapped was completed in 1982.

On September 17, 1982, ceremonies were held to commemorate the 20th anniversary of the beginning of class instruction. From less than one thousand students a year in the early sixties, the college now enrolls approximately five thousand students each year.

MISSION AND GOALS

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/her 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/her 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.
- 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.

- 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.
- 8. 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 a 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 five 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; the outstanding high school 11th and 12th grade students who can profit by special work at the college level; and physically limited students.

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

4. Attendance of Local High School Students

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

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

Students must attend high school for the minimum school day.

Admission of 11th and 12th Grade High School Students

The president of any two-year community college may admit to the community college as a special part-time student any 11th or 12th grade high school student whose admission is recommended by the high school principal. A principal of a high school may recommend a high school student as a special part-time student pursuant to rules and regulations which may be adopted by the governing board of the district maintaining the high school. A principal of a high school shall not recommend a number of high school students in excess of 15 percent of the total number of 11th and 12th grade students enrolled in the high school at the time of recommendation.

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

Each special part-time student shall attend high school classes for at least the minimum school day. (E.C. 76001)

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

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

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)

5. Physicaly Limited Program

The Physically Limited Program is designed to provide supportive services to students with physical disabilities, learning disabilities, and health problems. The program provides preferential registration, counseling, class scheduling, tutoring, mobility assistance, interpreting, braille transcribing, adaptive physical education, special parking, and nursing assistance.

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/she 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:

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

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, OR
- 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/she 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, workstudy 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

All Fees and Tuition are due and payable at the time of registration. Registration in courses WILL NOT be finalized until the college has received full payment.

FEES

Enrollment Fee

6 units or more \$50.00 less than 6 units \$5.00 per unit

Parking Fee

First vehicle \$10.00 Each additional vehicle \$5.00

NOTE: Students enrolled solely in off-campus classes are not required to pay the parking fee.

EXPLANATION OF FEES

The Enrollment Fee mandated by the California State Legislature, with the approval of the Governor, requires all California Community Colleges to charge students an Enrollment Fee each semester. The legislature has also provided for financial assistance and fee waivers for low income students who cannot afford to pay this fee and who qualify according to State guidelines. Information for financial assistance and fee waivers can be obtained through the Financial Assistance and Placement Services Office.

The Parking Fee provides administrative and operating funds for parking and transportation-related facilities.

TUITION

Non-residents and international students are required to pay tuition charges of \$79.00 per unit in addition to the fees outlined above.

The College will accept payment from non-resident and international students in cash, Western Union money orders, traveler's checks, and bank drafts. Personal checks cannot be accepted. Payment of non-resident and international student tuition cannot be deferred.

OTHER FEES/CHARGES

Required Fee for Dropping Courses

There will be a fee of \$10.00 imposed per course, not to exceed a total of \$20.00, for a student program change consisting of dropping one or more courses any time after two weeks from the commencement of instruction in any term. The fee shall not be charged for changes due to special circumstances affecting the student's ability to complete the course or for changes initiated or required by the college.

Non-Sufficient Funds Check Charge

There will be a charge of \$10.00 for checks returned to the college because of insufficient funds.

REFUND POLICY

Upon completion of refund request form, reimbursement in full will be made for the following:

- 1. Fee or tuition collected in error
- 2. Fee or tuition for a discontinued class

A student refund request form must be completed and filed prior to the close of late registration in order to receive reimbursement for the following:

- 1. Enrollment Fee
- 2. Parking Fee
- 3. Tuition

PARKING PERMIT

ALL vehicles parked on campus must have a valid parking permit. If you will be bringing a vehicle to campus, please complete the vehicle registration form available in the registration packet.

ACCREDITATION

The college is officially accredited by the Accrediting Commission for Junior Colleges, Western Association of Schools and Colleges, American Welding Society, the State Department of Education, and the Commission on Peace Officers Standards and Training. 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 MEET-ING 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

Intercollegiate competition is held in a variety of sports. IVC competes in the Pacific Coast Conference in all sports except football. Pacific Coast Conference includes Grossmont, Mira Costa, Palomar, San Diego City, San Diego Mesa, and Southwestern Colleges. In football, IVC competes in the Southern California Athletic Association which includes 18 southern California community colleges.

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 Learning Supportive Services Center, and the Imperial Valley College Tutors Club provides many academic enrichment activities for students interested as tutors. In addition, bilingual services exist for students with limited English-speaking ability and who desire academic assistance in lingual interpretation in their courses.

The Learning Supportive Services Center houses a variety of audiovisual equipment and media. It has an extensive inventory of slides, tapes, filmstrips, records, multi-media kits, and other instructional learning materials which supplement the broad subject range of courses offered on this campus. An extensive video-cassette library has been developed which provides students with an opportunity to view educationally relevant television broadcasts and motion pictures.

REGULATIONS

ADMISSION

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

All students are admitted under one of the following classifications:

- High school graduates or equivalent certificates (General Educational Development or California High School Proficiency Examination)
- Non-graduates of high school who are eighteen years of age.
- 3. High school students who are recommended by the high school principal for one to nine units of work. (Must submit a Concurrent Enrollment Form.) Extracurricular participation is to be confined to the high school. These students must attend high school for the minimum school day.
- College transfers who submit official transcripts (high school and college) may be granted advanced standing.
- Prospective foreign students and students from other states may be accepted for enrollment. A tuition fee will be charged. Contact the Registration Office for current costs.

TRANSCRIPTS

Imperial Valley College furnishes two free transcripts. Thereafter, a fee of \$2.00 is charged for each additional transcript. Requests for transcripts will not be honored until all outstanding 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, enrollment date and completion/withdrawal date, activities participated in, and degrees awarded. Any student who does not wish his/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 Registration Office in the Administration Building.

AFFIRMATIVE ACTION POLICY

The District adopted an Affirmative Action Plan in 1973. The Plan was revised in 1979, 1981 and in 1985. 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 Spenger 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.

The coordinator for Imperial Valley College's compliance with Section 504 of the Rehabilitation Act of 1973 is Melvin Wendrick, P.O. Box 158, Imperial, CA 92251, (619) 352-8320, Ext. 312, TTY (619) 355-4174. The Title IX officer for Imperial Valley College is Becky Alvarado, P.O. Box 158, Imperial, CA 92251, (619) 352-8320, Ext. 334.

RESIDENCE REQUIREMENTS

Under the Education Code, the general rule is that a student must pay nonresident tuition unless the student can qualify as a resident student or meet the requirements of certain special provisions. Since the concept of residence involves subjective intent, this catalog cannot anticipate every question that will arise in connection with determining whether such intent exists.

Each person enrolled in or applying for admission to a California Community College is, for the purposes of admission and tuition, classified as a "resident" or a "nonresident."

Students classified as a "resident" will be admitted without payment of nonresident tuition. Students classified as "nonresidents" will be required to pay tuition in an amount set by the Governing Board.

- A "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" is a person who does not have residence in California for more than one year and a day prior to the term of enrollment.

The "Residence Determination Date" shall be that date immediately preceding the first day of class either semester or summer term.

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

To determine a person's place of residence, reference is made to the following:

- Every person who is married or 18 years of age, or older, and under no legal disability to do so, may establish residence.
- 2. There can be only one residence.
- 3. The residence can be changed only by the union of act and intent
- 4. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his/her residence is that of the parent with whom he/she maintained his/her last place of abode. The minor may establish his/her residence when both parents are deceased and a legal guardian has not been appointed.
- 5. The residence of an unmarried minor, who has a parent living, cannot be changed by his/her own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the student qualifies for the self-supporting exception.

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.

- Minors who remain in California after their parents have moved from the state, as long as the parents had been residents of California prior to the resident classification date.
- Minors who have been self-supporting and in California for one year preceding the day before the term, will be granted resident classification.
- Students 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-18-years-of-age residence to obtain the durational requirements.
- 4. 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 permanent California residence or the individual will be subject to nonresident tuition for any subsequent enrollment.
- Adult aliens, lawfully admitted for permanent residence and present for one year and one day, will be given resident classification. Minor aliens may use parents' durational presence to satisfy the one year and one day requirement.

Aliens who hold the following classification are to be able to establish residence using the same criteria as would be applied when evaluating any United States citizen:

- a. Career Diplomat Visa
- b. Fiance' Visa
- 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.

- A student who is an apprentice within the meaning of Section 3077 of the Labor Code, is entitled to resident classification.
- 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.
- 9. A student may be classified as a district resident if he/she 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; the parent claims the student as a personal dependent on his/her state or federal income tax returns, if he/she has sufficient income to have a personal income tax liability.
- 10. A student may be classified as a district resident if he/she earns a livelihood primarily by performing agricultural labor for hire in California and other states, and he/she has performed such labor in this state for at least two months per year in each of the two preceding years.

No one factor is decisive; however, the institution may look for certain objective manifestations of subjective intent on the part of one asserting that residence status has been established, or has been maintained in spite of an absence from the state.

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.

The burden is on the student to demonstrate clearly both physical presence in California and intent to establish California residence.

A student who does not answer all of the questions on the Residence Questionnaire or on the Supplemental Residence Questionnaire, if one is used, may be classified as a nonresident.

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.

SHORT-TERM CLASSES

Enrollment procedures for short-term classes are the same as for regular classes. However, listed below are items which pertain to short-term classes only and should be noted:

- 1. Students may enroll in short-term classes up to one-fifth of the way through the class.
- 2. The last day to drop a short-term class with a "W" grade is three-fifths of the way through the class.

- Fees may be refunded up to one-fifth of the way through the class.
- 4. Units and grades for the student will be recognized for the semester in which the class ends. Thus, if the class begins during the fall semester, crosses over and ends in the spring semester, the units and grades will be recorded for the spring semester.

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.

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

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

An incomplete contract may be negotiated for UNFIN-ISHED WORK, OTHERWISE PASSING indicating that (because of medical or other sufficient reason) an important assignment such as a term paper, final examination, or experiment is missing.

An incomplete (I) grade, which is not made up by the end of the sixth week of the next regular semester, shall be converted to a letter grade. The letter grade shall be used in computing grade point average.

2. CREDIT GRADE

Certain courses designated by the appropriate divisions may be taken for a Cr grade. Students must declare their intentions to the instructor by the sixth week of the semester.

- a. Cr will reflect a letter grade of C or higher.
- b. NC will reflect incompletion of a credit class.
- c. Cr grades are permissible in the student's major field at Imperial Valley College if permitted or allowed by the division or department.
- d. Students applying for Cr must adhere to the same class standards or regulations as a student receiving a regular grade.
- e. A maximum of 16 units taken on a credit basis may be applied toward a degree.
- The Cr grade will satisfy completion of prerequisite for sequence class.

3. WITHDRAWAL GRADES

W-Withdrawal

A student may withdraw from any course or from the college with a "W" grade by the end of the 14th week of the semester by filing a drop card in the Registration Office. After the 14th week, a student may withdraw from any course, or from the college, but a letter grade must be assigned.

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

Grades at the time of withdrawal under either circumstances will be assigned in accordance with the following schedule:

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

All withdrawals are official after being processed by the Registrar's Office. Instructors may file a drop card with or without the student's signature through the 14th week of the semester and it will be processed. Beginning with the second class meeting, through the 14th week of the semester, students will also have the opportunity to file a drop card and it will be processed. A drop card filed by a student will be valid with or without the instructor's signature. If the instructor's signature does not appear, the instructor will be notified by the Registrar's Office.

The "W" will normally be given to the student during the 1st through the 14th week of the semester. The student shall be given a letter grade other than a "W" after the 14th week.

Students will be allowed to withdraw from a class or classes in extenuating circumstances after the last day of the 14th week (or 75 percent of the term, whichever is less) upon petition of the student or his/her representative after consultation with the instructor(s).

Extenuating circumstances are verified cases which are clearly beyond the control of the student, i.e., documented cases of serious accident, serious illness, or transfer of a student by military order.

4. PROFICIENCY ENROLLMENT

Once a student has completed a proficiency in a subject area with a satisfactory grade, he/she may not take a lower proficiency level in that subject area. For example: A student cannot enroll in English 2B after having successfully completed English 1A. (This does not apply to vocational refresher courses.)

5. REPEATED CLASSES

Procedure for Repeated Classes:

a. A student wishing to repeat a class in which a grade of D or F was received must complete a NOTICE OF REPEATED CLASS CARD. This card must be returned to the Registrar's Office prior to the completion of the repeated class.

The Registrar's Office will process Repeated Class cards and approved Student Petitions so that grade, units, and grade points of the original class will not be used in computing total units and grade point averages.

b. Under special circumstances, a student may repeat a course for which a grade of C or better has been recorded. Repetition of these courses is permitted through the Student Petition process. Grades awarded for courses repeated under this provision shall be counted in calculating a student grade point average.

6. 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 less Cr units. Thus, in any given semester, if the grade points earned total 28 and the total units attempted less Cr units equals 14, the grade point ratio is 2.00.

7. 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 Office.

8. ADVANCED PLACEMENT - NURSING

Students with previous nursing education and/or work experience may be eligible for advanced placement in the nursing curriculum. Credit may be granted for previous general education courses taken within five years. General education courses taken longer than five years ago will be evaluated on an individual basis. Evaluation of all previous academic and work experience is done on an individual basis by the nursing faculty. Details are available in the nursing office.

9. 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.

- a. Presentation of the DD214 by petition may allow the veteran 7 units of credit for basic training (4 units for physical education and 3 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.

10. 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.

11. ACADEMIC RENEWAL

If a student returns to Imperial Valley College after five years of absence, he/she 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 will be issued to the student by the Registration Office.

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, 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 = 2.0D = 1.0

E = 0

2. 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.

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 and 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 his/her request to the Registrar 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 Registrar 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:

- Standards of Student Conduct
- 2. Access to Student Records and Challenge Procedure
- 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 Registrar 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 interruption in attendance at Imperial Valley College in those instances where a student is unable to maintain satisfactory progress in achieving academic programs within the limit of available resources of the college.

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

Scholastic Dismissal

Scholastic Dismissal occurs at the end of the Spring semester when a student has previously been placed on Scholastic Probation, and has completed 30 or more units with a grade point average of 1.75 or less. The student will not be allowed to enroll during the next semester or the current summer session (except by special approval upon petition to the Admission, Registration and Petitions Committee).

Lack-of-Progress Dismissal

Lack-of-Progress Dismissal occurs at the end of the Spring semester when a student has previously been placed on Lack-of-Progress Probation, and has accumulated a recorded enrollment of 30 or more units, and more than 50 percent of those units are nonacademic grades (W, NC). The student will not be allowed to enroll during the next semester or current summer session (except by special approval upon petition to the Admission, Registration and Petitions Committee).

PHYSICAL EDUCATION

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

Exemptions may be granted for:

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

Students in physical education activity classes are required to dress appropriately. Appropriate dress for activity classes includes tennis shoes, shorts, sweat pants or jogging apparel, and tee shirts or a similar top for vigorous activity.

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

CHANGES IN THE CATALOG

Any regulation adopted by the administration of Imperial Valley College shall have the same force as a printed regulation in the catalog and shall supersede, upon appropriate public announcement, any ruling on the same subject which may appear in the printed catalog or official bulletins of the college.

A student may be graduated under the catalog in effect at the time of initial enrollment provided a continuous enrollment status is maintained during each semester (excluding summer sessions).

GRADUATION REQUIREMENTS

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 4th week of each semester and the 1st week of summer session. A \$5.00 nonrefundable fee must accompany the petition for graduation.

Additional Associate Degree(s) or Major(s) may be earned if the student completes those required courses and units beyond the prior degree(s) or major(s). Courses used in one major may be utilized in other majors as they apply. If a student breaks continuous enrollment, he/she will also be responsible for additional graduation requirements or required courses in the major as designated by the current catalog in effect.

The requirements for graduation represent State and institutional minimum general requirements as well as 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 their outlook, and contribute to the realization of the well-balanced whole person.

I. 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.-Administration of Justice

A.S.—Agricultural Business

A.S.—Agricultural Chemical Technology

A.S.—Agriculture Mechanics

A.S.-Alcohol and Drug Studies

A.S.—Animal Science

A.A.—Anthropology

A.A.-Art

A.S.-Automotive Body Repair and Painting

A.S.—Automotive Technology

A.S.—Banking—Administrative Services

A.S.—Banking—Credit Administration

A.S.—Banking—Secretarial

A.S.-Banking-General Operations

A.A.—Behavioral Science

A.S.—Bilingual-Bicultural Studies

A.S.—Bookkeeping

A.A., A.S.—Business Supervision

A.A., A.S.—Business Transfer

A.S.—Carpentry

A.A.—Cinematography

A.S.—Cosmetology

A.A., A.S. - Data Processing

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

A.S.—Engineering

A.A.—English

A.S.—Fire Science

A.A.-Foreign Language

A.A.,A.S.—General Business

A.A., A.S. - General Major

A.S.—General Office Technician

A.A., A.S. - General Science

A.A.—Gerontology

A.A.—Governmental Management

A.S.—Graphic Arts

A.A.—Human Relations

A.A., A.S. - Individual Interdisciplinary

A.S.-Industrial Power Technology

A.A.—Journalism

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.-Music

A.S.—Nursing (Associate Degree-Registered)

A.S.—Nursing (Licensed Vocational)

A.S.—Physical Education

A.A., A.S.—Physical Science A.S.-Plant Science

A.A., A.S.—Psychology

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.—Teacher Aide

A.S.—Water Treatment Technology

A.S.—Welding Technology

II. UNITS, GRADE POINT AVERAGE, RESIDENCE AND FINANCIAL OBLIGATIONS REQUIREMENTS

- A. Sixty (60) units plus physical education, if required.
- B. Grade point average of 2.0 or better for all college work.
- C. Completion of a minimum of forty-five (45) units in residence, or completion of at least the last fifteen (15) units at Imperial Valley College.

In-residence units refer to those units taken at Imperial Valley College in which a student is enrolled, attends class sessions of one semester's duration, and receives a passing grade. Credit by examination, extension credits, military credits, and/or credit by petition do not qualify a student for in-residence units.

Units toward an Associate in Arts or Associate in Science degree at Imperial Valley College must be from a college or university which, at the time the units were completed, was accredited by one of the regional accreditation agencies recognized by the most current COPA edition.

D. Settlement of all financial obligations to the college.

III. INSTITUTIONAL REQUIREMENTS

- A. American Institutions (select one sequence)
 - Hist 17A & Hist 17B
 - 2. Poly Sci 1 & Poly Sci 2
 - Hist 17A & Poly Sci 1
 - Hist 17B & Poly Sci 2
 - Soc Sci 52
- B. Health Education: HE 1 or HE 3 (Veterans only)
- C. Physical Education, if required

IV. STATE COMPETENCY REQUIREMENTS

- A. Math Competency: Satisfactory score on Placement Test or choose one: AG 50, AT 50, Math 50, PL 50, Weld 50 or Math 51
- B. Reading Competency: Satisfactory score on Placement Test or Eng 12B

V. GENERAL EDUCATION

A minimum of eighteen (18) semester units, including a minimum of three (3) semester units in each of the first three areas or divisions (a, b, c) and the same minimum in each part of d. The remainder of the unit requirement (3 units) is also to be selected from among these four areas or divisions (a, b, c, and d) as determined by student's option.

A general education course may be used to satisfy both a general education requirement and a major requirement.

a. Natural Science (3 units required)

Ag 5 Man and His Environment

Ag 14 Entomology

Anat 6 Human Anatomy & Physiology for the LVN

Anat 8 Human Anatomy

Anat 10 Human Anatomy & Physiology

Anthro 1 Physical Anthropology

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

Env Sci 5 (also Ag 5) Man & His Environment

Geog 1 Physical Geography

Geol 1A Physical Geology

Geol 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

Phy Sci 25 Introduction to Physical Science

Phys 2A General Physics

Phys 4A Principles of Physics

Physio 1 Human Physiology Zool 1A General Zoology

Zool 10 Life of the Past: An Introduction to Paleontology

b. Behavioral & Social Science (3 units required)

Adm Jus 46 The Mentallly III, Alcoholic, Drug Addict, and the Law

ADS 9 Interviewing and Counseling

ADS 50 Human Services in a Changing Society

Anthro 2 Cultural Anthropology

Anthro 3A Intro. to Archaeological Site Surveying

Anthro 3B Introduction 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 Prehistoric

Meso-America

Anthro 8 Indians of the Southwest

ECE 20 Developmental Psychology of Children ECE 21 Early Childhood Socialization: Children,

Family and Community

ECE 22 Principles of Child Development & Observation

ECE 27 Understanding Exceptional Students ECE 34 Infants and Toddlers

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 Mexican and the American Southwest

Hist 40 Civilization of Spain and Portugal

Hist 41 Civilization of Spanish America and Brazil

HR 9 Interviewing and Counseling

PL 1 Understanding Exceptional Students

Poly Sci 3 Comparative Politics Poly Sci 14 Introduction to International Relations

Psych 1A General Psychology

Psych 1B Advanced General Psychology

Psych 2 Introduction to Physiological Psychology Psych 3 Psychology of Personal and Social Adjustment

Psych 4 Psychology of Human Sexuality

Psych 20 Developmental Psychology of Children Psych 21 Early Childhood Socialization: Children,

Family and Community
Psych 22 Principles of Child Development and

Observation
Psych 27 Understanding Exceptional Students

Psych 30 Psychology of Adolescence Psych 35 Developmental Psychology

Psych 46 The Mentally Ill, Alocholic, Drug Addict and the Law

Sociol 1 Principles of Sociology

Sociol 2 Contemporary Social Problems

Sociol 17 Social Psychology

Social 33 Marriage and the Family

Sociol 50 Human Services in a Changing Society Span 40 Civilization of Spain & Portugal

Span 41 Civilization of Spanish America & Brazil Span 43 History and Culture of the Philippines

TA 3 Psychology of Personal and Social Adjustment

c. Humanities (3 units required)

Anthro 14 Primitive Art Art 3A/3B History & Appreciation of Art Art 4 History & Appreciation of Modern Art

**Art 30A Introduction to Art Drm Art 5A/5B History of World Drama

Eng 1B Introduction to Literature Eng 41 Survey of American Literature

Eng 42A/42B Survey of World Literature Eng 43A/43B Survey of English Literature

Eng 44AD Literature for Appreciation

Eng 45AD Studies in Literature +Eng 46A/46B The Mexican American in Literature Eng 47 Introduction to the Bible as Literature Eng 54 Introduction to Film History and Criticism

Fr 1 Elementary French

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

***Fr 2A/2B Elementary French Fr 3 Intermediate French

Fr 3 Intermediate French
Fr 4 Intermediate French

Fr 10 Intermediate Conversational French

Fr 11 Intermediate Conversational French
**Fr 20A/20B French Drama - Reading and Performance
Fr 40 Introduction to French Civilization and Culture
Fr 41 Introduction to French Civilization and Culture

Beyond France

Ger 1 Elementary German Ger 2 Elementary German

Ger 10 Conversational German Ger 11 Conversational German

Hist 4A/4B History of Western Civilization

Hum 1A/1B Man and the Arts Hum 25 The Humanities

Hum 26 The Humanities Hum 40 Introduction to French Civilization and

Culture Beyond France

Hum 41 Introduction to French Civilization and Culture Beyond France

Hum 54 Introduction to Film History and Criticism
**Ital 1A/1B Elementary Italian

Jrn 5 Introduction to Photography MPP 54 Introduction to Film History and Criticism

*Mus 17AD Chamber Singers *Mus 18AD Chamber Orchestra

Mus 20A/20B History & Literature of Music Mus 30 Introduction to Music Literature and Listening Phil 1A/1B Introduction to Philosophy

Phil 11 Ethics

Phil 25 Religions of the Modern World

Ph 5 Introduction to Photography

PL 10 Beginning Communication with the Deaf PL 11 Intermediate Communication with the Deaf

PL 12 Advanced Communication with the Deaf Span 1 Elementary Spanish

**Span 1A/1B Elementary Spanish Span 2 Elementary Spanish

**Span 2A/2B Elementary Spanish Span 3 Intermediate Spanish

Span 4 Intermediate Spanish
**Span 5A/5B Beginning Conversational Spanish

and Culture Span 10 Intermediate Conversational Spanish

Span 11 Advanced Conversational Spanish

Span 20A/20B Bilingual Spanish

Span 21 Intermediate Bilingual Spanish Span 22 Advanced Bilingual Spanish

Span 22 Advanced Bilingual Span Span 23 Bilingual Oral Spanish

Span 24 Introduction to Spanish Literature

Span 25 Introduction to Spanish American Literature +Span 28A/28B The Mexican American in Literature +Span 42 Introduction to Mexican American Studies

**Span 54A/54B Beginning Conversational Spanish for Careers

d. Language and Rationality

1. English Composition (3 units required)

Eng 1A Reading & Composition

or

Eng 2B Basic English Composition

Communication & Analytical Thinking (3 units required)

Bus 9 Mathematics for Business Analysis Bus 26 Elementary Statistics

Bus 50 Introduction to Data Processing Bus 52 Computer Programming I

Bus 55 Programming in Fortran Bus 57 Programming in Basic

Eng 11 Reading IV: Analytical & Critical Reading

Eng 50 Advanced Composition Eng 51 The Communication Process

Eng 52 Introduction to Linguistics

Eng 53A/53B Creative Writing Eng 55 Technical & Report Writing

Jrn 1 Introduction to Journalism

Jrn 3 Mass Communication Math A Intermediate Algebra

Math C Plane Trigonometry

Math 2 Advanced Algebra & Trigonometry Math 3A Analytic Geometry & Calculus Math 10 Mathematics for Elementary School

Teachers

Math 12 Elementary Statistics

Math 17 Mathematics for Business Analysis

Math 47 Programming in Fortran Math 57 Programming in Basic

Math 58 Programming in Pascal

Phil 10 Logic

Psych 12 Elementary Statistics

Sp 1 Oral Communication Sp 11 Oral Interpretation - Readers Theatre

Sp 30 Voice and Articulation Development

+Ethnic Studies Course *1 Unit Course **2 Unit Course

***2.5 Unit Course

CREDIT FOR CORRESPONDENCE AND EXTENSION COURSES

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

- Courses must have been taken from a recognized accredited college or university having a correspondence or extension division.
- 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 REQUIREMENTS

Two principal requirements must be met in order to attain full junior standing at a state university, the University of California, or other institutions maintaining equivalent standards to which the student expects to transfer. These are as follows:

 The completion of the specified requirements for junior standing in the proposed senior college or university; and,

2. The completion of the lower-division prerequisites for upper-division majors and minors.

These vary according to the requirements of the institution of higher education in which the student expects to enroll. A STUDENT EXPECTING TO TRANSFER TO SUCH AN INSTITUTION SHOULD CONSULT THE CATALOG OF THE INSTITUTION REGARDING SPECIFIC REQUIREMENTS and plan their Imperial Valley College work so that these requirements will be met. Additional information is available in the Counseling Center.

Transferable courses to the California State University system and/or the University of California system are indicated by (CSU, UC) following the catalog description. Students are advised to contact their counselor to determine which specific courses are applicable to their educational objective.

A student planning to transfer to the California State University system can, at their request, have the general education requirements certified by Imperial Valley College. In order to meet this certification, a student must complete thirty-nine (39) units of selected general education in one of five areas: English communication and critical thinking; physical universe and its life forms; arts, literature, philosophy, and foreign language; social, political, and economic institutions; and understanding life and self-development. With the certification of general education completed by Imperial Valley College, a student can transfer to a

California State University assured that no further general education will be required in the lower division area.

The Specific General Education Pattern for the California State University system follows:

A. ENGLISH COMMUNICATION & CRITICAL THINKING (9 units)

Oral English (1 course required)
 Speech 1 (3)

1. Life Science (1 course required)

3. Math (1 course required)

Math A

Math C

Math 2

Math 4

Math 3A/3B

. Written English (1 course required) English 1A (3)

3. Critical Thinking (1 course required)
Eng 11 (3) Speech 10 (3)
Phil 10 (3)

B. PHYSICAL UNIVERSE AND ITS LIFE FORMS (9 units with at least one lab course marked with an (L)

	Ag 14 (L)	(3)	Bio 21 (L)	(4)
	Anat 8 (L)	(4)	Bot 1A/1B (L)	(4-4)
	Anat 10 (L)	(5)	Physio 1 (L)	(4)
	Anthro 1	(3)	Zool 1A/1B (L)	(4-4)
	Bio 3 (L)	(4)		
2.	Physical Science (1	course	required)	
	Ag/Env Sci 5	(3)	Geol 11	(3)
	Astron 21	(3)	Geol 12	(3)
	Chem 1A/1B (L)	(5-5)	Geol 12L	(1)
	Chem 2A (L)	(4)	Geol 13	(3)
	Chem 5 (L)	(5)	Geol 14	(3)
	Chem 12 (L)	(5)	Phys 2A/2B (L)	(4-4)
	Geog 1	(3)	Phys 4A/4B/4C (1	L) (4-4-4)
	Geol 1A (L)	(4)	Phys Sci 25 (L)	(4)
	Geol 10	(3)	Zool 10	(3)

(3)

(5)

(5-5)

Math 10

Bus 26

Math 17/Bus 9

Math 12/Psych 12/

(3)

C. ARTS, LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGE (9 units selected from 3 subject areas)

Anthro 14......(3) Hum 1A/1B.....(3-3)

21	114111 21 4 20 11 11 11 (0 0)
Art 3A/3B (3-3)	Hum 25 (3)
Art 4(3)	Hum 26 (3)
Art 30A/30B (2-2)	Ital 1A/1B(2-2)
Drm Art 5A/5B (3-3)	Mus 20A/20B (3-3)
Eng 1B(3)	Mus 30 (3)
Eng 41(3)	Mus 31 (3)
Eng 42A/42B (3-3)	Phil 1A/1B(3-3)
Eng 43A/43B (3-3)	Phil 11(3)
Eng 45AD(3)	Phil 25 (3)
Eng 46AB/Span 28AB (3-3)	Span 1 (4)
Eng 47(3)	Span 1A/1B(2-2)
Eng/Hum/MPP 54 (3)	Span 2 (4)
Fr 1 (5)	Span 2A/2B(2-2)
Fr 1A/1B (2.5-2.5)	Span 3 (4)
Fr 2 (5)	Span 4 (4)
Fr 3 (4)	Span 10 (3)
Fr 4 (3)	Span 11 (3)
Fr 10 (3)	Span 20A/20B (4-4)
Fr 11 (3)	Span 21 (4)
Fr 20A/20B (2-2)	Span 22 (4)
Fr 40/Hum 40 (3)	Span 23 (3)
Fr 41/Hum 41 (3)	2.7
Ger 1A/1B (2-2)	Span 24 (3)
	Span 25 (3)
Ger 1(4)	Span 40/Hist 40 (3)
Ger 2(4)	Span 41/Hist 41 (3)
Ger 10(3)	Span 42 (3)
Ger 11(3)	Span 43 (3)

Hist 4A/4B (3-3)

D. SOCIAL, POLITICAL, AND ECONOMIC INSTITUTIONS (9 units)

1. American Institutions (6 units required - choose a sequence below)

a.	Hist 17A/17B	(3-3)
13/2024		(3-3)
b.		
c.	Hist 17A/Poly Sci 1	(3-3)
	Hist 17B/Poly Sci 2	(3-3)

Select one course from a subject area not completed 4.1 Castion Dichoun above

in Part 1, Section	II D SHOWII	acce	(0)
Anthro 2	(3)	Hist 10	(3)
	(3)	Hist 30	(3)
Anthro 4	0.000		(3)
Anthro 5	(3)	Poly Sci 3	
Anthro 6	(3)	Poly Sci 14	(3)
	(3)	Psych 1A/1B	(3-3)
Anthro 7			(3)
Anthro 8	(3)	Psych 3	
Econ 1	(3)	Soc 1	(3
	(3)	Soc 2	(3
Econ 2	100		(3
Geog 2	(3)	Soc 10	(5
Geog 3	(3)		

UNDERSTANDING LIFE AND SELF-DEVELOPMENT (3 units)

Geron 1	(3)	Psych 4	(3)
	(3)	Psych 16	(3)
HE 1	\$- ·		(3)
HE 3	(3)	Psych 35	0.00
HR 8/Psych 8	(3)	Soc 33	(3)

Transfer Credit

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

OCCUPATIONAL CURRICULA

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

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

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 a "C" grade average (2.0 GPA) for all courses used to complete the certificate.
- File a certificate petition with the Registrar not later than the end of the fourth week of each semester and the first week of the summer session.

Certificates are offered in the following areas:

Administration of Justice Alcohol and Drug Studies Field Archaeology Automotive Body Repair and Painting Automotive Technology Banking

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

Secretary Certificate—Bank Service

Business

Bookkeeper Technician

Clerk Typist

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

Secretary/Stenographer

Carpentry Cosmetology Data Processing Early Childhood Education Electronics Emergency Medical Technician I Emergency Medical Technician II

Fire Science Gerontology

Governmental Management Graphic Arts - Multi Media, Printing

Health Assistant

Heavy Machinery Human Relations

Community Mental Health Worker

Counseling, School and Social Services Personnel, Employment Counseling and Supervision

Legal Assistant Library Technician—Basic

Marketing-Sales Technology

Patient Service Administration Specialist

Real Estate Recreation

Rehabilitation Technician for the Physically Limited

Teacher Aide Vocational Nursing

Water Treatment

Welding

Work Experience-Occupational

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.

Course descriptions followed by the notation (CSU, UC) indicate that the course is transferable to the California State Universitu sustem, to the University of California sustem, or both. A student should contact his/her counselor to determine which courses are applicable to his/her educational objective.

The prerequisites for any course may be waived by the instructor and the Vice President for Academic Services.

Unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported for state aid, wherever offered and maintained by Imperial Community College District, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, Part VI, Title 5 of the California Administrative Code commencing with Section 51820 (Board of Trustees Resolution No. 5682).

SUMMER SESSION

(When Offered)

Summer Session calendar and admission requirements may be found in the Summer Session Bulletin or Schedule of Classes which is published during the Spring Semester.

ADMINISTRATION OF JUSTICE

ADM JUS 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 subsystems; role expectations, and their interrelationships; theories of crime, punishment and rehabilitation; ethics, education and training for professionalism in the system. (CSU, UC)

ADM JUS 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. (CSU)

ADM JUS 23 (1) DEFENSIVE TACTICS 2 Hrs. Lab.

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) (CSU)

ADM JUS 24 (3) TRAFFIC CONTROL AND VEHICLE CODE 3 Hrs. Lec.

The study of traffic control and vehicle code problems. (CSU)

ADM JUS 26 (3) TRAFFIC ACCIDENT INVESTIGATION 3 Hrs. Lec.

The study and procedures of traffic accident investigation. (CSU)

ADM JUS 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. (CSU)

ADM JUS 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. (CSU)

ADM JUS 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. (CSU, UC)

ADM JUS 34 (3) CRIMINAL INVESTIGATION 3 Hrs. Lec.

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. (CSU)

ADM JUS 35 (3) LEGAL ASPECTS OF EVIDENCE 3 Hrs. Lec.

Prerequisite: Adm Jus 21. Origin, development, philosophy and contitutional 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. (CSU)

ADM JUS 36 (3) PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM 3 Hrs. Lec.

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. (CSU,

ADM JUS 37 (3) JUVENILE CONTROL 3 Hrs. Lec.

Techniques of handling juvenile offenders and victims, prevention and repression of delinguency, diagnosis and referral, organization of community resources, juvenile law and juvenile procedure. (CSU)

ADM JUS 38 (3) COMMUNITY RELATIONS 3 Hrs. Lec.

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 interrelationships 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. (CSU, UC)

ADM JUS 39 (3) ARREST AND FIREARMS 3 Hrs. Lec.

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. (CSU)

ADM JUS 40 (1) ADVANCED OFFICERS COURSE 1 Hr. Lec.

Prerequisite: 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, (CSU)

ADM JÜS 41 (3) MASS SOCIOLOGY AND **COLLECTIVE BEHAVIOR** 3 Hrs. Lec.

(Same as Sociol 41) (CSU)

ADM JUS 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.

ADM JUS 43 (3) RESERVE OFFICERS CLASS LEVEL II 3 Hrs. Lec.

Prerequisite: Level III or permission of the 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.

ADM JUS 44 (6) RESERVE OFFICERS CLASS LEVEL I 6 Hrs. Lec.

Prerequisite: Level II or permission of the 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.

ADM JUS 46 (3) THE MENTALLY ILL. ALCOHOLIC. DRUG ADDICT AND THE LAW 3 Hrs. Lec. (Same as Psych 46) (CSU)

ADM JUS 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. (CSU)

ADM JUS 48 (3) ADVANCED CRIMINAL LAW 3 Hrs. Lec.

Prerequisite: Adm Jus 33. 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. (CSU)

ADM JUS 49 (6) PRE-ACADEMY TRAINING 6 Hrs. Lec.

Prerequisite: Permission of the instructors. The history and philosophy of the administration of justice in California; identifying the various sub-systems, role expectations, ethics, education, and training of persons seeking employment in the criminal justice system. Specific instruction will be stressed in pertinent law enforcement areas to assist the student passing a P.O.S.T. Academy.

ADM JUS 58 (1-12) BASIC PROBATION OFFICERS' **ACADEMY**

1-13.3 Hrs. Lec. Prerequisite: Admission by permission of the instructor. This course is designed to improve the skills of the probation officer by an in-depth study of the role and responsibility of the probation officer. Included is a past, present and future exposure to probation procedures from initial entry to final disposition.

ADM JUS 63 (3) SELECT TOPICS IN ADVANCED **IMMIGRATION AND NATIONALITY** LAW

3 Hrs. Lec.

Prerequisite: Graduation from an Immigration Officer Basic Training Course. This course will focus on the complicated issue of law and procedure concerning the deportation of aliens illegally in the United States and criminal prosecution for violations of U.S. immigration laws. The course will also consider in-depth topics including relief from deportation, delivery bonds, deportation hearing and trial techniques. Familiarization with research materials in the immigration field will be stressed throughout the course. (CSU)

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) (CSU, UC)

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. (CSU, UC)

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

A survey of the sources of the world's supply of animal products. The distribution of Study of farm technological advance, marand factors influencing domestic animals in the United States. The origin, characteristics, and adaptation of the important breeds and the influence of environment on California farms. (CSU, UC)

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

The basic principles of animal nutrition as AG 27 (3) they are applied to livestock feeding; the AGRICULTURAL SALES AND composition and use of feedstuffs in their SERVICE MANAGEMENT relation to feeding of farm animals; ration 3 Hrs. Lec. balancing. Identification and classification Supervision of people who sell agricultural tive value for each class of livestock. Diges directing and evaluating personnel. Methards; economy in feeding; vitamins and tion, incentives and service. (CSU) minerals and feed sources. (CSU, UC)

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

Selection of beef cattle, sheep, swine and AG 32 (3) horses according to breed, type and use IRRIGATION AND DRAINAGE The animal form in relation to its various 2 Hrs. Lec. 2 Hrs. Lab. functions. Studies of recognized type stand Fundamental principles and practices of UC)

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

The symptoms, diagnosis and treatment of animal diseases. (CSU)

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. (CSU)

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 growth of farm-related industries, kinds of agricultural businesses, operational characteristics of commercial agricultural industries. (CSU) (UC credit limited. See a counselor.)

AG 26 (3) AGRICULTURAL BUSINESS **ORGANIZATION & MANAGEMENT** 3 Hrs. Lec.

keting, consumer demand and other such factors as determinants of growth, types and forms of agricultural business organization. Farm and farm related businesses conupon their development. Selection, feeding sidered from standpoint of primary funcand management of sheep, swine, and cattle tions, services and problems including investments, mortgage and working capital requirements, credit and collections, business with banks, failures and reorganization. Emphasis on California farm-related industries. (CSU) (UC credit limited. See a counselor.)

of feeds, methods of preparing feeds; relai products and services. Selecting, training, tion and utilization of feeds; feeding stand ods of payment, use of advertising, promo-

AG 28 (5) HEAVY EQUIPMENT OPERATION AND MAINTENANCE 3 Hrs. Lec. 6 Hrs. Lab. (Same as HM 35) (CSU)

ards in livestock with a critical evaluation irrigation. Soil-moisture relationships, water of the criteria used in establishing thest measurement, methods of irrigation, crop standards. Correlation of the type of the live requirements, farm irrigation structures. animal with the quality of the carcass. (CSU 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. (CSU)

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. (Same as Auto Tech 51) (CSU)

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. (Same as Auto Tech 55) (CSU)

AG 33C (5) **FARM POWER** 3 Hrs. Lec. 6 Hrs. Lab. (Same as Auto Tech 63) (CSU)

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. (Same as Auto Tech 57) (CSU)

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. (CSU)

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. (Same as Auto Tech 59) (CSU)

AG 38 (3) POWER ELECTRICITY 2 Hrs. Lec. 2 Hrs. Lab.

Fundamentals of electric wiring; circuit layout and problems, motor and branch circuit protection, safe use of electricity, motor maintenance, wiring buildings and homes. (CSU)

AG 39 (5) DIESEL ENGINE REPAIR 3 Hrs. Lec. 6 Hrs. Lab. (Same as HM 40) (CSU)

AG 40 (3) SOILS

3 Hrs. Lec. Physical, chemical and biological properties of soils as related to agriculture. Principles of soil-plant interrelations; development of the soil as a natural body, soil moisture, effect of management practices on soil properties; composition and use of fertili-

AG 41 (3) **FERTILIZERS** 3 Hrs. Lec.

zers. (CSU, UC)

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. (CSU)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU)

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. (CSU)

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. (CSU)

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. (CSU)

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. (CSU)

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. (CSU)

AG 49 (3) WEEDS AND WEED CONTROL

3 Hrs. Lec. Commonand 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. (CSU)

AG 50 (3) SHOP MATHEMATICS

3 Hrs. Lec. (Same as Auto Tech 50, Math 50, PL 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. (CSU)

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

The study of field management practices during spring months. (CSU)

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

The study and evaluation of cropping methods and crop rotation practices. (CSU)

AG 51D (1) APPLIED CROP MANAGEMENT

1 Hr. Lec. The study and evaluation of cropping methods for the Imperial Valley. (CSU)

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 pesti-

AG 75 (3) INTRODUCTION TO INDUSTRIAL **AUTOMOTIVE SKILLS**

3 Hrs. Lec. (Same as Auto Tech 75, Weld 75)

ALCOHOL AND DRUG STUDIES

ADS 9 (3) INTERVIEWING AND COUNSELING 3 Hrs. Lec. (Same as HR 9/Psych 9) (CSU)

ADS 10 (3) SOCIOLOGY OF MINORITY **GROUPS**

3 Hrs. Lec. (Same as Sociol 10) (CSU, UC)

ADS 11AB (3-3) PRACTICUM 1 Hr. Lec. 6 Hrs. Lab. field experience per week (Same as HR 11AB/Psych 11AB) (CSU)

SOCIAL AND PSYCHOLOGICAL DYNAMICS OF DRUG USE

3 Hrs. Lec.

(CSU)

(Same as Psych 15/Sociol 15) (CSU, UC)

HUMAN SERVICES IN A CHANGING SOCIETY 3 Hrs. Lec.

History, philosophy and the development of thought in social work. A content area designed to identify and analyze the primary helping services in urban and rural America. Observation and reporting techniques will be emphasized. This course will identify new programs and careers in the emerging Human Services field. (Same as Sociol 50) (CSU)

ADS 51 (3) ALCOHOLISM: INTERVENTION, TREATMENT AND RECOVERY 3 Hrs. Lec.

This course will serve as an introduction to assessment and treatment approaches to alocholism and drug abuse. Alcoholism will be studied in its social and clinical context. Attention will be given to the basic theoretical approaches to the disease. This course will examine the various components of intervention, treatment and recovery.

30

ADS 52 (3) PHSIOLOGICAL EFFECTS OF **ALCOHOL AND DRUGS** 3 Hrs. Lec.

The course is designed to provide the student with information on the processing systems of the body and how they react to alcohol and drugs. This course will seek to explain where and how drugs act and why. The course will bring about an understanding of how drugs influence consciousness, mood, and feeling. It will enable students to understand that both the internal and external environments have important effects on the well-being of the individual. (CSU)

ADS 53 (3) GROUP LEADERSHIP AND GROUP **PROCESS**

3 Hrs. Lec. Prerequisite: ADS 9/Psych 9/HR 9. This course will introduce the student to group theory and process, and how groups affect the whole social scene. It will examine membership in and leadership of various kinds of groups, emphasizing group process. Consideration will be given to goals and strategies of social change and the necessity for social change in relation to personal and social values. The factors involved in problems of communications, effective emotional responses and personal growth also will be highlighted, emphasizing the group process as a means of changing behavior. (Same as Psych 53) (CSU)

ADS 54 (3) FAMILY COUNSELING APPROACHES TO ALCOHOL AND DRUG ABUSE 3 Hrs. Lec.

A course designed to present basic ideas and theories about family dynamics, particularly as they apply to the family of the substance abuser, and to explore strategies (CSU) for counseling the client's family. The approach is highly experiential in format and students will participate in exercises frequently to incorporate new skills and theory. (CSU)

ADS 55 (3) CRISIS INTERVENTION AND REFERRAL TECHNIQUES 3 Hrs. Lec.

Prerequisite: ADS 9/Psych 9/HR 9 or per mission of the instructor. Techniques use 8 or Anat 10 with a grade of "C" or better. for brief therapy crisis intervention, intak interviewing and referral will be studied an practiced. Special attention will be given the process of intervention, admitting, an recording of information as it pertains alcohol and drug abuse clients. Through a experiential format, participants will lear and practice skills in brief therapy, differen levels of client communication and intak interviewing. (Same as Psych 55) (CSU)

ADS 56 (3) PROGRAM MANAGEMENT **TECHNIQUES**

3 Hrs. Lec.

This course will introduce students to basic management principles as applied to Substance Abuse programs. Topics will include funding, budgeting and policy development as well as issues related to staff selection. supervision and program evaluation. (CSU)

ADS 57ABCD (1-3, 1-3, 1-3, 1-3) CURRENT ISSUES IN DRUG ABUSE 1-3 Hrs. Lec.

A variety of one-unit courses covering current, specialized areas in alcohol and drug abuse. As the field changes, the semester offerings will vary. Such topics as Women and Alcoholism, Alcoholism, Sexuality and Intimate Relationships, Cross-cultural Counseling Techniques, Adult Children of Alcoholics, Substance Abuses and the Law. and Counseling the Adolescent Abuser will be included. (CSU)

ALTERNATE ENERGY

AE 10 (3) PRACTICAL METHODS IN **SOLAR ENERGY**

3 Hrs. Lec.

This course explores active and passive solar design systems in housing construction, the low cost energy savers that renters can install and an evaluation and comparison of high technology and low technology solar designs. (CSU)

AE 20 (3) ALCOHOL FUEL PRODUCTION 3 Hrs. Lec.

A study of the procedures, processes and issues of entering into fermentation ethanol production. Also included are construction techniques applicable to the alcohol plant.

ANATOMY

ANAT 6 (3) HUMAN ANATOMY & PHYSIOLOGY FOR THE LUN 3 Hrs. Lec.

Introductory study of the structure and function of the human organism. Class is structured for the LVN student and is not open to students who have completed Anat

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 or a current California LVN license. Systems of the human body and their interrelationships. (CSU) (UC credit limited. See a counselor.)

ANAT 10 (5) HUMAN ANATOMY & PHYSIOLOGY 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: One year of high school chemistry and biology or one semester each at the college level or a current California LVN license. A study of the structure and function of the human organism. Emphasis is on the circulatory, respiratory, excretory, nervous, reproductive, and digestive systems. (CSU) (UC credit limited. See a counselor.)

ANTHROPOLOGY

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

The processes and course of human evolution; mankind's place in nature and the study of primates; the biological variability of living peoples and their genetic background. (CSU, UC)

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. (CSU, UC)

ANTHRO 3A (3) INTRODUCTION TO ARCHAEOLOGICAL SITE **SURVEYING**

2 Hrs. Lec. 5.33 Hrs. Lab. Introduction to archaeological site survey-

ing; historical development of archaeology; major contributors in 20th century; archaeological trends; methods of site surveying; types of sites; field reconnaisance; site reports and records; preparing field material for laboratory care and analysis; trails, artifacts, and features; equipment, use and care in the field. (CSU, UC)

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

Introduction to archaeological excavations: mapping; laying out sites with transit, rod and alidade; archaeological excavation; selecting sites; testing and trenching; stratigraphy; keeping records; interpreting data; preparing laboratory materials: care of materials for carbon and amino acid dating; pollen and soil tests. (CSU)

ANTHRO 3C (3) ADVANCED ARCHAEOLOGICAL SURVEY

2 Hrs. Lec. 5 Hrs. Lab.

Prerequisite: Anthro 3A and consent of the instructor. Students to conduct independent surveys, research records, devise tables and maps, lead small field crews on surveys and write technical but readable reports. Field surveys will be in various environmental areas in Imperial and San Diego counties. Students must plan for 1-3 additional hours by arrangement. (CSU, UC)

ANTHRO 3D (3) ADVANCED ARCHAEOLOGICAL **EXCAVATIONS** 2 Hrs. Lec. 5 Hrs. Lab.

Prerequisite: Anthro 3B and consent of the instructor. Students will design a field excavation project, organize a small field crew with which to carry it out, conduct record and literature searches, micro-map the area, process materials and data in the laboratory, and prepare a technical, but readable report on the findings. Laboratory studies will include curation, photography and C14 processing. Students must plan for 1-3 additional hours by arrangement. (CSU)

ANTHRO 4 (3) **CALIFORNIA INDIANS**

3 Hrs. Lec.

A study of California Indians and the relationships of these tribal peoples to their environments; linguistic families; life styles of specific Indian tribal societies; Indian art, music, stories, religions, institutions, structures, artifacts, recent Indian history. (CSU, UC)

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

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

ANTHRO 13 (1) INTRODUCTION TO LITHIC **TECHNOLOGY**

1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Anthro 3A. Aspects of prehistoric lithic technology are explored. Flint knapping techniques of direct percussion and pressure flaking are stressed. Emphasis is also placed upon detecting pre-historic use · wear on stone tools and the use of artifact typology on archaeological inference. (CSU, UC)

ANTHRO 14 (3) PRIMITIVE ART 3 Hrs. Lec.

This course examines the idea of primitive art as determined from prehistoric and historic visual forms. Analysis will focus on the varieties, types and techniques of prehistoric art. Primitive, in this course, refers to original and early rather than simple and backward. (CSU, UC)

ANTHRO 15 (3) **HUMAN IDENTIFICATION** 3 Hrs. Lec.

The class is designed to enable the student to distinguish human bones and bone fragments from nonhuman bones. Concepts include the field recovery of skeletal remains and identification by age, sex and ethnicity. (CSU)

ANTHRO 16 (3) PREHISTORIC CERAMICS 3 Hrs. Lec.

Origins and developments of ceramics in the Old and New Worlds, with emphasis on the techniques and styles of pottery making of Southeastern California Indians. Making replicas of ceramic figurines and vessels. (CSU)

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. (CSU, UC)

ART 3B (3) HISTORY AND APPRECIATION OF ART 3 Hrs. Lec.

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

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. (CSU, UC)

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

The study of watercolor painting with emphasis upon color, composition and pictorial expression. Exploration of various techniques employing the medium of watercolor. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

ART 20B (3) DRAWING

2 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Art 20A. A continuation of 20A. (CSU) (UC credit limited. See a coun-

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. (CSU) (UC credit limited. See a counselor.)

ART 21B (3) PAINTING

2 Hrs. Lec. 4 Hrs. Lab.

Prerequisite: Art 21A. A continuation of 21A. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

ART 22B (3) DESIGN

2 Hrs. Lec. 3 Hrs. Lab.

Intermediate studies of elements and principles of art with emphasis on three-dimensional design theory. (CSU) (UC credit limited. See a counselor.)

ART 23A (3) CERAMICS

1 Hr. Lec. 5 Hrs. Lab.

An introduction to ceramics; basic methods of forming, decorating, glazing and firing. (CSU) (UC credit limited. See a counselor.)

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 (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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

A course in basic ceramic sculpture techniques with emphasis on the human form (CSU) (UC credit limited. See a counselor.

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

Prerequisites: Art 20A and 20B with a grade (CSU) (UC credit limited. See a counselor. ium. (CSU, UC)

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. (CSU) (UC credit limited. See a counselor.)

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

Prerequisites: Art 23C or permission of the instructor. A study of the raw materials used in compounding clay bodies and glazes. Specific problems of glaze calculations and techniques of glaze application. (CSU) (UC credit limited. See a counselor.)

ART 30A (2) INTRODUCTION TO ART 11/2 Hrs. Lec. 11/2 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. (CSU, UC)

ART 30B (2) INTRODUCTION TO ART 11/2 Hrs. Lec. 11/2 Hrs. Lab.

Prerequisite: Art 30A. A continuation of Art 30A which is an exploratory course intended for nonart majors; provides a basis for an understanding of the fundamental art principles. Offers experience in creative expression. (CSU, UC)

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

Theories, techniques and practices of art gallery exhibition. (CSU)

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 painting. Suggestions and evaluation of student work will take place on an individual basis. (CSU) (UC credit limited. See a counselor.)

ASTRONOMY

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

Prerequisite: Completion of the Matheof C or better. Many types of drawing and matics 51 requirement. The course covers painting techniques are used to further the solar system, the stars, Milky Way tion by drawing from the human figure of stars and constellations in the planetar-

AUTOMOTIVE BODY AND PAINT

AUTO BODY 70 (5) **AUTO BODY REPAIRING AND PAINTING**

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Weld 30 and Weld 32, or permission of the instructor. The study of all phases of body repair and painting. Covers the use of modern tools and equipment and procedures for handling typical body-paint jobs. (CSU)

AUTO BODY 71 (5) ADVANCED AUTO BODY REPAIRING AND PAINTING 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Auto Body 70 or permission of the instructor. Covers all phases of body repairing and repainting. Use of modern tools and equipment, step-by-step procedures for handling typical jobs. (CSU)

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.

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. Enrollment in automotive technology courses requiring a prerequisite is not allowed unless the prerequisite automotive technology class is passed with a "C" grade or better.

AUTO TECH 50 (3) **SHOP MATHEMATICS** 3 Hrs. Lec.

(Same as Ag 50, Math 50, PL 50, and Weld

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; student's skill and development of visualization galaxy, cosmology, and the identification relevant to such topics as internal combustion and energy conversion. (Same as Ag 33A) (CSU)

AUTO TECH 52 (3) MANUAL TRANSMISSIONS AND **POWER TRAINS**

2 Hrs. Lec. 3 Hrs. Lab.

Design, construction and mechanical function of clutches, manual transmissions, overdrives and power transmitting mechanisms. (CSU)

AUTO TECH 53 (5) **BRAKES AND SUSPENSION** 3 Hrs. Lec. 6 Hrs. Lab.

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. (CSU)

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. (CSU)

AUTO TECH 55 (5) ADVANCED GASOLINE 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. (Same as Ag 33B) (CSU)

AUTO TECH 56 (3) DIAGNOSTICS 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Auto Tech 54 and Auto Tech 60. Troubleshooting the various components of the automobile using the oscilloscope and dynamometer and other precision instruments. To include the study and servicing of various automotive smog devices. (CSU)

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. (Same as Ag 35) (CSU)

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

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. (CSU)

AUTO TECH 59 (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. (Same as Ag 37) (CSU)

AUTO TECH 60 (5) ELECTRICAL STARTING. **CHARGING, IGNITION AND RELATED ELECTRICAL SYSTEMS** 3 Hrs. Lec. 6 Hrs. Lab.

Advanced study of automotive electrical systems. Basic diagnosis and service procedures on the various systems. (CSU)

AUTO TECH 61 (5) **AUTOMATIC TRANSMISSIONS** 3 Hrs. Lec. 6 Hrs. Lab.

Design, construction, mechanical and hydraulic function and repairs of the automatic transmission. (CSU)

AUTO TECH 63 (5) LIGHT-DUTY DIESEL ENGINE REBUILDING

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Auto Tech 51/Ag 33A or permission of the instructor. Complete rebuilding of a light diesel engine. Areas covered include cleaning, disassembly, inspection and analysis of the engine parts. Also covered are cylinder head service, piston and sleeve fitting, cylinder service, advanced machining and measuring techniques, engine assembly and testing upon completion. (Same as Ag 33C) (CSU)

AUTO TECH 65 (3) **BASIC MACHINE SHOP TECHNOLOGY** 2 Hrs. Lec. 3 Hrs. Lab.

A general course designed for students desiring to work in the various areas of automotive technology involving machine shop operations. Skill is developed in the operation of lathes, milling machines, drill presses, grinders, shapers, hand and bench tools, and heat treating. The proper use of materials, safety and care of equipment is emphasized. (CSU)

AUTO TECH 66 (3) MACHINE SHOP TECHNOLOGY 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Auto Tech 65 or permission of the instructor. A course designed to develop advanced skills in the operation of lathes, milling machines, drill presses, grinders, shapers and sewing machines. The proper use of materials, safety and care of equipment is included. (CSU)

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/her 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. (CSU)

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. (CSU)

AUTO TECH 90ABC (3-3-3) ADVANCED AUTO TECH SHOP PRACTICE

1 Hr. Lec. 4 Hrs. Lab.

Prerequisite: Successful completion of at least 14 units in automotive technology or permission of the instructor. Auto Tech applied shop practices is for advanced students who wish to refine technical skills prior to obtaining employment in the industry. (CSU)

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. (CSU) (UC credit limited. See a counselor.)

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

Prerequisite: One year each of high school chemistry and biology or one semester each at college level or a current California LVN license. Provides students with fundamental concepts of the structure and physiology of nondisease 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. (CSU, UC)

BOTANY

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

Prerequisite: Any year course in a high school laboratory science. Designed to pre sent a comprehensive view of the structure BUS 5A (3) and function of stems, roots, leaves, flowers BUSINESS LAW and seeds of the flowering plants. (CSU, 3 Hrs. Lec.

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

Prerequisite: Bot 1A. Designed to present a comprehensive view of the structure and are the environmental, ethical, political and function of the plant kingdom from the low-social factors which influence the developest to the highest forms; typical representation and operation of the legal system. tives of algae, fungi, mosses, ferns and flow (CSU, UC) ering plants in proper relation to one anoth er. (CSU, UC)

BUSINESS

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

mathematics placement test or completion Bus 5A. (CSU, UC) of Math 51 with a grade of C or better. Intro duction to the theory, practice, and prin BUS 6 (3) ciples of accounting as they relate to service MANAGEMENT CONCEPTS OF enterprises and mercantile enterprises SUPERVISION Includes the completion of the accounting 3 Hrs. Lec. cycle, sales, purchases, summarizing and The role of the supervisor in industry and (CSU, UC)

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

Prerequisite: Satisfactory completion Bus 1A. Principles involved in partnerships MANAGEMENT corporations, departmental accounting 3 Hrs. Lec. process cost systems, job order cost Improving supervision by the use of basic

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

A basic beginning college course that intra PERSONNEL MANAGEMENT A basic beginning college course that introduces U.S. business and industry. Include the nature and importance of business forms of business ownership, organization management, finance, marketing, government and legal regulations, pricing an practices based upon research and company experience. Includes the personnel

BUS 3 (3) **BUSINESS MANAGEMENT**

3 Hrs. Lec.

A study of the organizing and merchandising problems of a business; financial problems; busines management. (CSU)

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

A course of study designed to introduce students to the organization and operation of marketing activities, including the study of the marketing mix, markets, promotion and strategic planning. (CSU)

Course of study designed to immerse students in the various areas of Business Law as it relates to business. Courts and court procedures, contracts and government regulation as it applies to business are some of the areas covered. Included in the course

BUS 5B (3) **BUSINESS LAW** 3 Hrs. Lec.

Principles of business law and their application to actual cases involving business transactions, personal property and bailments, sales, security devices and insurance, partnerships, corporations, real property, estates and bankruptcy, and government Prerequisite: Satisfactory score on the and business. Bus 5B may be taken before

reporting, receivables, payables and inver business; the development of techniques in tories, deferrals and accruals, depreciation meeting administrative, organizational, systems and controls and payroll systems labor and human relations problems; the utilization of men, machines and materials, and case studies in supervisory problems.

BUS 7 (3) **HUMAN RELATIONS IN**

budgetary control, income taxes, cash flow psychology in building better employerand financial statement analysis. (CSU, UC employee relationships through human relations techniques; development of leadership qualities; main human relations problems and their causes and solutions. (CSU)

management system, staffing, employee and management development, group behavior, management-union relations, compensation, security and a look into the future. (CSU)

BUS 9 (3) MATHEMATICS FOR BUSINESS **ANALYSIS**

3 Hrs. Lec. (Same as Math 17) (CSU, UC)

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 and accrual basis.

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

Prerequisite: Bus 10A or permission of the 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 13 (3) APPLIED BUSINESS LAW 3 Hrs. Lec.

A one-semester course covering courts and court procedures, contracts, sales contracts, 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 salesperson in the selling of ideas, services, and products. Includes the place and importance of salespeople in the marketing structure of the U.S. economy. (CSU)

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. (CSU)

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. (CSU)

BUS 21ABC (2-2-2) 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 officelevel proficiency in Bus 21A. Bus 21C may be taken by those students who do not attain office-level proficiency in Bus 21B. (CSU)

BUS 22 (3) WORD PROCESSING 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Ability to type 40 wpm, Bus 40, or permission of the instructor. Designed to teach students to use various word processing equipment including the mini-computer, micro-computer, electronic typewriter and machine transcription equipment.

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 grade of C or better. Develops skills required for rapid and accurate operation of calculating machines. (CSU)

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. (CSU)

BUS 26 (3) **ELEMENTARY STATISTICS** 3 Hrs. Lec.

(Same as Math 12/Psych 12) (CSU, UC)

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 & 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. (CSU)

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. (CSU)

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 2AB. Concurrent enrollment in Eng 13AB is strongly recommended. Satisfies part of the graduation requirement in communications.

BUS 41 (2) **ESSENTIALS IN 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 letterwriting 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. (CSU)

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

3 Hrs. Lec.

Recommended for bilingual students with Bus 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. (CSU)

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 machines, to familiarize practical course covering the fundamentals the student with the electronic computer as the basis for data processing systems and to introduce the student to programming. (CSU)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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

A practical course covering the fundamentals of Fortran Programming Language as adapted to a variety of different applications. (Same as Math 47) (CSU) (UC credit limited. See a counselor.)

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

Prerequisite: Concurrent enrollment in Bus 22, Bus 50, Bus 52, Bus 53, Bus 55 and/or Bus 57. Course designed to provide an opportunity for additional experiences with software and hardware related to the curricula of Bus 22, Bus 50, Bus 52, Bus 53, Bus 55 and/or Bus 57. (CSU) (UC credit limited. See a counselor.)

BUS 57 (3) **PROGRAMMING IN BASIC**

3 Hrs. Lec. Prerequisite: Bus 50 is recommended. A of BASIC Programming Language as adapted to a variety of different applications. (Same as Math 57) (CSU) (UC credit limited. See a counselor.)

BUS 59 (1) MICROCOMPUTER OPERATIONS 1 Hr. Lec. .5 Hr. Lab.

The class will introduce microcomputer architecture, operating systems, workload management and scheduling using a handson approach. (CSU)

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

Fundamentals of bank function in the descriptive fashion so that the beginning student may seek a broad and open perspective in banking. (CSU)

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

3 Hrs. Lec.

Prerequisites: Bus 1A and Bus 1B. This course focuses upon investment and analysis of credit to appraise the extent and nature of risk involved, and to determine the willingness and ability of prospective debtor to repay a proposed loan in accordance with terms set forth. Topic includes profit-loss analysis. Analyzing of inventory and the development of ratio analysis. (CSU)

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

In this class, emphasis is placed on estab lishing the credit obtained in checking infor mation; servicing the loan and calculating the amount due. Other topics discussed ing in the relations aspect of installment lending. (CSU)

BUS 63 (3) FINANCING BUSINESS **ENTERPRISES** 3 Hrs. Lec.

Stress is placed on the difference betwee Appraises the usefulness of fiscal mechanher corporation. (CSU)

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

associations with evaluation of manageme B Hrs. Lec. and the use of capital rather than stress (Same as Jrn 8) (CSU) the examination of land and labor resourd which are more closely aligned with agrid BUS 80 (3) tural production. An understanding of as MEDICAL TERMINOLOGY cultural financing should help the banker 3 Hrs. Lec. satisfying the credit needs of modern at (Same as HT 3) (CSU) culture. (CSU)

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** 3 Hrs. Lec.

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. (CSU)

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, are inventory financing and special loa problems in provision of public services, programs. Business development advertis 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. (CSU)

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

lending and investing. Investing in a corpo ism, outlines the generally accepted prination and financing a corporation or the d ciples of organization and procedure, the ferent aspects of the same subject. In the relationships of the several fiscal functions course, the material is presented from to each other. Surveys fiscal policies; the viewpoint of a corporate treasurer wil appropriation process; accounting, tax, must safeguard the financial future of his revenue, financial controls, reporting, and analysis; budget preparation, authorization, and execution; planning budgeting system; fiscal relationships; cost analysis; and audits. (CSU)

BUS 79 (3) This course emphasizes general princin PUBLIC RELATIONS TECHNIQUES

BUS 81 (3) MEDICAL TRANSCRIPTION 2 Hrs. Lec. 3 Hrs. Lab. (Same as HT 4) (CSU)

BUS 82 (3) PATIENT INFORMATION SYSTEMS 2 Hrs. Lec. 3 Hrs. Lab. (Same as HT 5)

BUS 83 (3) MEDICAL INSURANCE 2 Hrs. Lec. 3 Hrs. Lab. (Same as HT 6) (CSU)

BUS 84 (3) PATIENT ADMINISTRATION SERVICES 2 Hrs. Lec. 3 Hrs. Lab. (Same as HT 7) (CSU)

BUS 85 (2) MANAGEMENT OF PATIENT SERVICES OPERATIONS 2 Hrs. Lec. (Same as HT 8) (CSU)

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

Practical instruction and exercises for secretaries. Emphasis on forms of pleadings; procedures for various actions (civil procedure, real estate, probate and conservatorships, family law); 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. (CSU)

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. (CSU)

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. (CSU)

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

Prerequisite: 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. (CSU)

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. (CSU)

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

Prereuisite: 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. (CSU)

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. (CSU)

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. (CSU)

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. (CSU)

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. Lab.

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 the 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.

Prerequisite: High school algebra and plant geometry or satisfactory score on mathe matics placement exam, high school chem 1 istry or Chem 2A. Fundamental principle and theory of atomic and molecular struc-Study of kinetic molecular theory and the first law of thermodynamics. Periodic rela 3. tionships of the elements, physical states matter, solutions, oxidation-reduction electrolysis and equilibrium. Laboraton exercises to strengthen and illustrate con cepts from lectures. (CSU, UC)

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

grade of C. Detailed study of three laws thermodynamics and their relation to chem ical reactions, rates of reactions and equ Application for this degree must verify items and introductory organic reactions. Labor seling Center for procedure to follow. tory exercises related to electrochemia studies and qualitative analysis. (CSU, U(COS 50A (10)

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

Prerequisite: One year of high school a bra or its equivalent. Intended for studen who have not had high school chemistry who need further preparation for Chem I tary principles of chemistry. Not open a Credit class. (CSU) (UC credit limite metology. See a counselor.)

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

Summer Session) (CSU, UC)

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

Prerequisite: Chem 1B. A study of the co 360 Classroom Hrs. pounds of carbon with special emphasis Prerequisite: At least a 10th grade educaduction to the aromatic compounds. I rules set forth by the State Board of Cosme-phasis is given to the molecular orbital copy throughout the course. (CSU, UC

COSMETOLOGY

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

- Graduate of a school of cosmetology that prepared students for a State Board of Cosmetology Examination.
- ture related to bonding and geometry 2. Present California Cosmetologist License.
 - Present enrollment at Imperial Valley College.

Blanket credit for cosmetology courses completed 45 units (Corresponds to number of Cosmetology course units in IVC Cosmetology Major.)

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

Prerequisite: Chem 1A with a minimu Physical Education and Mathematics. if required.

librium. Survey of selected groups from the 1 and 2 of the criteria with the instructor of periodic table, oxidation-reduction wil Cosmetology and the Dean of Vocationalrespect to concentration, nuclear process Technical Education. Check with the Coun-

INTRODUCTION TO COSMETOLOGY 360 Classroom Hrs.

Prerequisite: At least a 10th grade education or the equivalent. State rules and requlations set forth by the California State Board of Cosmetology. Introduction to sterilization and sanitation for patron protection. Personal development as a cosme-The course is recommended for those w tologist. Introduction to all phases of cosdesire a basic understanding of the element metology, including theory and practical (Lab). Introduction to the Anatomy in tary principles of chemistry. Not open Beauty Culture. Instruction in proper use the equivalent. Course may be offered and care of all equipment necessary in cos-

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

Prerequisite: At least a 10th grade education or the equivalent. Introduction to cos-Prerequisite: Chem 1B. Theory and pri metic chemistry. Correct application to tice of volumetric and electrochemi shampoo, cold waving, hair coloring, manimethods of analysis. (Usually offered dur curing, basic hair styling, curl construction. and roller placement. Theory of anatomy and dermatology. Diseases and conditions pertaining to cosmetology. Facials, makeup, basic hair cutting and scalp treatments.

COS 52A (10) INTERMEDIATE COSMETOLOGY

the aliphatic compounds; includes an intronor the equivalent. Cosmetology Act and

pertaining to cosmetology. Theory and practical training in chemical hair relaxing and hair pressing. Use of electrical equipment in all phases of cosmetology.

COURSES OF INSTRUCTION

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU) (UC credit limited. See a counselor.)

EARLY CHILDHOOD EDUCATION

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

LANGUAGE DEVELOPMENT FOR YOUNG CHILDREN 3 Hrs. Lec. (Same as TA 6) (CSU)

ECE 8 (3) MATHEMATICS FOR YOUNG CHILDREN 3 Hrs. Lec. (Same as TA 8) (CSU)

ECE 20 (3) DEVELOPMENTAL PSYCHOLOGY OF CHILDREN

3 Hrs. Lec.

A study of the psychological development of children, aimed at intermediate 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 Psych 20) (CSU) (UC credit limited. See a counselor.)

EARLY CHILDHOOD SOCIALIZA-TION: 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 the course lends itself to nursery school personnel, it can also be used by parents and prospective parents. (Same as Psych 21) (CSU)

ECE 22 (3) PRINCIPLES OF CHILD DEVELOP-MENT 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) (CSU)

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

Prerequisite: 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. (CSU)

ECE 24 (3) CREATIVE LEARNING EXPERI-**ENCES 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, dance-movement, drama, and puppetry in the curriculum. Creative materials and methods will be developed by each student. (Same as 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, and 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. (CSU)

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

This course is designed to provide parents and parents-to-be with practical down-toearth methods of being good parents. While it is based on sound psychological principles, its content will not be theoretical, but practical, giving examples and illustrations on aspects of sound parenthood. (Same as Psych 26) (CSU)

ECE 27 (3) UNDERSTANDING EXCEPTIONAL STUDENTS 2 Hrs. Lec. 2 Hrs. Lab.

(Same as Psych 27/PL 1) (CSU)

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. (CSU)

ECE 29 (2) CHILD DEVELOPMENT ASSOCIATE INTRODUCTION AND 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. (CSU)

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. (CSU)

ECE 33 (1) SYSTEMATIC TRAINING FOR **EFFECTIVE PARENTING (STEP)** 1 Hr. Lec.

This course is designed for the development of skills essential to good parent-child relationships. The classes will deal with normal challenges to typical parents. Students will learn basic democratic child-rearing principles based on mutual respect, equality, and responsibility. Students will observe children and practice the basic skills necessary for effective parenting. (CSU)

INFANT/TODDLER DEVELOPMENT 3 Hrs. Lec.

This course will cover the fundamental principles of prenatal and infant development from conception to age two. Emphasis is placed upon developing activities appropriate to the development level of the child based upon the student's understanding of infant/toddler development. The course is designed for caregivers and parents. (CSU)

ECONOMICS

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

An introduction to economic concepts and the principles of economic analysis. Empha sis on economic institutions, issues of public policy; and macroanalysis in national in come, money and banking, and economic stabilization. (CSU, UC)

ECON 2 (3) PRINCIPLES OF ECONOMICS 3 Hrs. Lec.

policy; and microanalysis in the direction gation. (CSU) of production and the allocation of re sources through the price-system. (CSU

EDUCATION

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

Recommended for students interested a teaching credential. Opportunity to es plore specific grade levels through week observations and participation in actual classroom situations. Gives broad overvie of the varied aspects of teaching. (CSU)

ELECTRICITY

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

Prerequisite: Math 51 or satisfactory scor on placement test. An introductory coun to the study of electricity and electronio Basic theory of the physical phenomenal volved in the use and selection of varial electrical components, instruments as circuits is presented in the lecture. Practic experiments demonstrating this theory a performed in the lab. (CSU)

ELECTRONICS

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

Prerequisites: Electricity 1 or Physics 2B amplifiers and single stage amplifiers; 1 (CSU) elementary integrated circuits. (CSU)

FLECTRONICS 1B (3) FLECTRONICS ASSEMBLY AND FABRICATION 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Electronics 1A. A course to familiarize the electronics student with the tools, hardware and procedures used in the assembly and fabrication of electronics systems. (CSU)

ELECTRONICS 2 (5) TRANSISTORS AND SEMI-CONDUCTORS 3 Hrs. Lec. 4 Hrs. Lab.

Prerequisites: Electronics 1A and 1B, Study An introduction to economic concepts and of the semi-conductor devices and circuits principles of economic analysis. Emphasis with application of fundamental network on economic institutions, issues of public theorems to electronic circuits and propo-

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. (CSU)

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 an 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 Calfornia Department of Health for EMT Physics 4B or permission of the instruction training. One hundred and seventeen hours Course covers the fundamental character required for completion of courses: 87 hrs. istics of transistors and diodes; line Lec. (five hrs. weekly); and 30 hrs. Lab.

EMT 1A/(R) (1.5) **EMERGENCY MEDICAL** TECHNICIAN 1/AMBULANCE REFRESHER

1.5 Hrs. Lec. .4 Hr. Lab. Prerequisites: 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. (CSU)

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 prehospital 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, medico-legal 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 hemorrhage, childbirth, stroke, burns, and extrication are included. This course is approved by the State Board of Fire Services. One hundred five hours required for completion of course: 87 hrs. Lec. (5 hrs. weekly); 18 hrs. Lab. (CSU)

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 six months or has been expired less than twelve 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 six months or has expired within the last twelve 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 dres-

sings, 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. Twenty-six hours required for completion of course; 20 hrs. Lec.; 6 hrs. Lab. (CSU)

EMT 2-A (7) **EMERGENCY MEDICAL TECHNICIAN 2-A** 4 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Have a valid California Emergency Medical Technician 1 (1/A, FS, PS, or CHP) Certificate. Have one year experience as a practicing EMT. Have permission of the instructor. Successful completion of an EMT 2 student application packet. A course designed to teach professional public safety personnel limited advanced life support skills. The course will teach the student to treat critically ill and injured patients in the prehospital setting using all the basic life support skills learned in EMT 1, and advanced skills such as intravenous infusion, defibrillation, MAST suit application, and esophageal intubation. The course is an intensive one, requiring the student's total dedication to successful completion of the course, and the realization that more than usual study and TBA requirements must be met. (CSU)

EMT 2-B (7) **EMERGENCY MEDICAL TECHNICIAN 2-B** 4 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: EMT 2-A. A course designed to teach professional public safety personnel limited advanced life support skills. The course will teach the student to treat critically ill and injured patients in the prehospital setting using all the basic life support skills learned in EMT 1, and advanced skills such as intravenous infusion, defibrillation, MAST suit application, and esophageal intubation. The course is an intensive one, requiring the student's total dedication to successful completion of the course, and the realization that more than usual study and TBA requirements must be met. (CSU)

ENGINEERING

ENGR 2A (3) ENGINEERING DRAWING 11/2 Hrs. Lec. 41/2 Hrs. Lab.

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

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

Prerequisite: Engr 15. Axial stress; stress and strain relations; torsional stress and deformation; shear and moment diagrams; bending stresses; shear stresses; compound stresses; transformation of stresses; failure theory; deflection of beams; buckling; statically indeterminate structures. (CSU, UC)

ENGR 6 (3) ENGINEERING MATERIALS 3 Hrs. Lec.

Prerequisite: Chem 1A. Atomic and molecular structure of materials utilized in engineering. Analysis of the relationships between structure of materials and their mechanical, thermal, electrical, corrosion and radiation properties, together with examples of specific application to engineering problems. (CSU, UC)

ENGR 11 (3) ELECTRIC CIRCUITS 3 Hrs. Lec.

Prerequisite: Credit or concurrent enrollment in Phys 4B and Math 3B. Circuit analysis by reduction methods, source transformations, loop and nodal analyses, alternating current circuits, impedance, power and phasor diagrams. (CSU)

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. (CSU)

ENGR 13 (3) ARCHITECTURAL DRAFTING II 1 Hr. Lec. 5 Hrs. Lab.

Prerequisite: 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. (CSU)

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. (CSU)

ENGR 15 (3) STATICS 3 Hrs. Lec.

Prerequisite: Phys 4A or concurrent enrollment in Phys 4A. Force systems; equilibrium; structures; distributed forces; friction; virtual work; moments of inertia; vector algebra. (CSU, UC)

ENGR 16 (3) DYNAMICS 3 Hrs. Lec.

Prerequisite: Engr 15. Kinetics of a particle; central force motion; systems of particles; work and energy; impulse and momentum; moments and products of inertia; Euler's equations of motion; vibration and time response; engineering applications. (CSU, UC)

ENGR 19 (6) STATICS AND DYNAMICS 6 Hrs. Lec.

Prerequisite: Phys 4A. This course is a combination of Engr 15 and Engr 16. (CSU, UC)

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. (CSU)

ENGR 30 (2) ORIENTATION TO ENGINEERING 2 Hrs. Lec.

Helping the engineering student adjust to college life through motivating experiences and guidance, clarifying concepts of the engineering college and the engineering profession, and aiding the student in acquiring the fundamental tools and skills required in future work. (CSU, UC)

ENGLISH

New Students

The Nelson-Denny Reading Test will be required of all new students who desire to register for their initial reading or writing class. The test is administered in the Counseling Center and in the Reading/Writing Lab, which is located in the library.

Students will be recommended to initially register in the appropriate reading and writing classes based on the sequence detailed below.

Nelson-Denny Reading Scores		Writing Class(es) Initial Placement	
Below	6.0*	Eng 4	
6.0	8.9	Eng 3A	
9.0	13.9	Eng 2A	
14.0	16.9	Eng 1A	
*grade eq	uivalency	,	
Nelson-Denny Reading Score		Reading Class(es) Initial Placement	
Below	6.0*	Eng 14A	
6.0	8.9	Eng 13A	
9.0	10.9	Eng 12A	
11.0	16.9	Eng 11	
*grade eq	uivalency		

During the first two weeks of classes, students will be given an additional test (The Holistic Writing Test) to determine their writing abilities. The results of this writing test will help determine the final placement of students in the writing classes.

Students Previously Completing Reading or Writing Classes

Students who receive a grade of "C" or higher in any of the reading or writing classes are automatically entitled to the next class level in the sequence; for example, students completing Eng 3A with a "C" or better are automatically moved to Eng 3B; those completing Eng 2A with a "C" or better will automatically move to Eng 2B. Students receiving less than a "C" grade are required to repeat the class before advancing to the next level.

Other Recommendations

New students should consult an Imperial Valley College Counselor for assistance in understanding the placement procedure prior to registering in the reading or writing classes.

Concurrent enrollment in reading and writing classes is highly 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. (CSU, UC)

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 Engl 1A before Eng 1B. (CSU, UC)

ENG 2A (3) BASIC ENGLISH COMPOSITION 3 Hrs. Lec.

Prerequisite: Assignment by placement test and instructor recommendation. Preparation for Eng 2B. 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 3B and is taught simultaneously with Eng 2B. Concurrent enrollment in Eng 12A is strongly recommended.

ENG 2B (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 2A. Concurrent enrollment in Eng 12B is strongly recommended. (CSU)

ENG 3A (3) WRITING FUNDAMENTALS 3 Hrs. Lec.

Prerequisite: Assignment by placement test and instructor recommendation. Preparation for Eng 3B. Intensive instruction in grammar and punctuation and the writing of short paragraphs. Designed for the student needing to acquire basic writing skills and to overcome language transfer interference. Follows in sequence from Eng 4. Taught simultaneously with Eng 3B. Concurrent enrollment in Eng 13A is strongly recommended.

ENG 3B (3) WRITING FUNDAMENTALS 3 Hrs. Lec.

Prerequisite: Assignment by placement test and instructor recommendation. Preparation for Eng 2A 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 3A. Concurrent enrollment in Eng 13B is strongly recommended.

ENG 4 (4) ADVANCED GRAMMAR AND COMPOSITION FOR ESL 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Satisfactory completion of Eng 5 or 5B. Advanced composition, grammar, and reading are emphasized. Satisfactory completion of this course qualifies the student for enrollment in Eng 3AB. This course satisfies part of the requirement in communications. (CSU) (UC credit limited. See a counselor.)

ENG 4A (2) ADVANCED GRAMMAR AND COMPOSITION FOR ESL

2 Hrs. Lec. ½ Hr. Lab.
Prerequisite: Designated score on placement test or satisfactory completion of Eng 5 or 5B. The course covers the first half semester's work of Eng 4 (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 4B, is equivalent to Eng 4. Not open to students who have completed Eng 4. (CSU) (UC credit limited. See a counselor.)

ENG 4B (2) ADVANCED GRAMMAR AND COMPOSITION FOR ESL 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Satisfactory completion of Eng 4A. This course covers the second half semester's work of Eng 4 (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 4A and Eng 4B is the equivalent of Eng 4 and qualifies the student to enroll in Eng 2AB or Eng 51. Not open to students who have completed Eng 4. (CSU) (UC credit limited. See a counselor.)

ENG 5 (4) INTERMEDIATE GRAMMAR AND COMPOSITION FOR ESL 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Appropriate score on placement test or satisfactory completion of Eng 6. Eng 5 is an intermediate course in grammar and composition which takes the ESL student from simple present and past tense usage to more complicated grammatical structures. Basic skills for simple compositions in English are also taught. (CSU) (UC credit limited. See a counselor.)

ENG 5A (2) INTERMEDIATE GRAMMAR AND COMPOSITION FOR ESL 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Designated score on placement test or satisfactory completion of Eng 6B. The course covers the first half semester's work of Eng 5 (4 units) and is offered for the convenience of night students who cannot attend class more than one night per week. This course, together with Eng 5B, is equivalent to Eng 5. Not open to students who have completed Eng 5. (CSU) (UC credit limited. See a counselor.)

ENG 5B (2) INTERMEDIATE GRAMMAR AND COMPOSITION FOR ESL 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Satisfactory completion of Eng 5A. This course covers the second half semester's work of Eng 5 (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 5A and 5B is equivalent to Eng 5 and

qualifies the student to enroll in Eng 4 or Eng 4A. Not open to students who have completed Eng 5. (CSU) (UC credit limited. See a counselor.)

ENG 6 (4) BEGINNING GRAMMAR AND COMPOSITION FOR ESL 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 beginning composition writing in the latter part of the semester. (CSU) (UC credit limited. See a counselor.)

ENG 6A (2) BEGINNING GRAMMAR AND COMPOSITION FOR ESL 2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: Designated score on placement test or permission of the instructor. This course covers the first half semester's work of Eng 6 (4 units) and is offered for the convenience of night students who cannot attend class more than one night per week. This course will emphasize vocabulary building, conversational skills and listening comprehension. This course, together with Eng 6B, is equivalent to Eng 6. Not open to students who have completed Eng 6. (CSU) (UC credit limited. See a counselor.)

ENG 6B (2) BEGINNING GRAMMAR AND COMPOSITION FOR ESL 2 Hrs. Lec. ½ Hr. Lab.

Prerequisite: Eng 6A or permission of the instructor. This course covers the second half semester's work of Eng 6 (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 6A and 6B is the equivalent to Eng 6 and qualifies the student to enroll in Eng 5 or Eng 5A. Not open to students who have completed Eng 6. (CSU) (UC credit limited. See a counselor.)

ENG 11 (3) READING IV: ANALYTICAL AND CRITICAL READING 3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Successful completion of Eng 12B and/or ability to read at the 11th grade level. Designed to help adequate readers become superior readers. Recommended for college transfer students who wish to develop the critical reading and thinking skills necessary for all types of college level reading. *Laboratory hour to be scheduled in the Reading/Writing Lab. (CSU)

ENG 12A (3) READING III: INTERMEDIATE DEVELOPMENT

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Successful completion of Eng 13B and/or the ability to read at the 9th grade level. A course at the upper intermediate reading level designed to refine those skills designated in Eng 13A/13B. Includes additional instruction in study skills, outlining, previewing, summarizing and critical reading. *Laboratory hour to be scheduled in the Reading/Writing Lab.

FNG 12B (3) READING III: INTERMEDIATE DEVELOPMENT

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Successful completion of Eng 12A and/or the ability to read at the 10th grade level. A course at the upper intermediate reading level for those students needing additional instruction and practice in study skills, outlining, previewing, summarizing and critical reading as taught in Eng 12A. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 13A (3) READING II: BASIC DEVELOPMENT 3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Successful completion of Eng 14B and/or the ability to read at the 6th grade level. A course at the lower intermediate level for the student needing intensive instruction in comprehension, vocabulary and study skills. Emphasis will be on fundamental understanding of texts, and increasing word knowledge. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 13B (3) READING II: BASIC DEVELOPMENT 3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Successful completion of Eng 13A with reading scores below the required level for Eng 12A (grade 9). A course at the lower intermediate level for the student needing additional instruction in comprehension, vocabulary and study skills. Emphasis will be on fundamental understanding of texts, and increasing word knowledge. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 14A (3) READING I: DEVELOPMENT FOR **BILINGUALS**

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Reading level below the 6th grade. Assignment by placement test and recommendation of the instructor. Course designed to develop reading efficiency of bilingual students. Phonics comprehension, word analysis, vocabulary building will be included, as well as those study skills directly related to reading. *Laboratory hour to be scheduled in the Reading/Writing Lab.

FNG 14B (3) READING I: DEVELOPMENT FOR BILINGUALS

3 Hrs. Lec. *1 Hr. Lab.

Prerequisite: Successful completion of Eng 14A with reading test scores below the required level for Eng 13A (grade 6). Course designed to develop reading efficiency of bilingual students. Phonics comprehension, word analysis, vocabulary building will be included, as well as those study skills directly related to reading. *Laboratory hour to be scheduled in the Reading/Writing Lab.

ENG 22AB (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 24 (3) ADVANCED VOCABULARY **BUILDING AND SPELLING FOR ESL** 3 Hrs. Lec.

Prerequisite: Eng 25, Eng 5 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.

INTERMEDIATE VOCABULARY **BUILDING AND SPELLING FOR ESL** 3 Hrs. Lec.

Prerequisite: Eng 5 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 26 (3) **BEGINNING VOCABULARY BUILDING AND SPELLING FOR ESL** 3 Hrs. Lec.

Prerequisite: This course may be taken concurrently with Eng 6 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 33 (3) BASIC PUBLIC SPEAKING FOR **BILINGUALS**

3 Hrs. Lec.

Prerequisite: Eng 34 or permission of the instructor. This course is designed to bring advanced ESL students to a near-native level of fluency and listening comprehension so that they may successfully compete with native speakers. Students will prepare,

present and evaluate speeches, commercials, dialogs, skits, oral interpretations, debates and simulation games. (This course may be taken as a preparation but not as a substitute for Sp 1) (CSU) (UC credit limited. See a counselor.)

ENG 34 (3) ADVANCED ORAL ENGLISH FOR ESL

3 Hrs. Lec.

Prerequisite: To be taken concurrently with Eng 4 or by permission of the 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 still need more practice in manipulating oral structures. (CSU) (UG credit limited. See a counselor.)

ENG 35 (3) INTERMEDIATE ORAL ENGLISH FOR ESL 3 Hrs. Lec.

Prerequisite: To be taken concurrently with Eng 5 or by permission of the instructor. A conversational course designed for the intermediate student of ESL. Students will utilize oral English by creating their own dialogs and presenting them, and by speak ing on posters or other visual materials Differences between the students' native language and English and how these differ ences affect the students' oral English will be discussed. (CSU) (UC credit limited. See a counselor.)

ENG 36 (3) BEGINNING ORAL ENGLISH FOR ESL

3 Hrs. Lec.

Prerequisite: To be taken concurrently with Eng 6 or by permission of the instructor. conversational course designed for the beginning ESL student. The course we repeated for credit with different content. cover the fundamentals of the English soun ENG 45ABCD (3-3-3-3) system. Listening and speaking will b STUDIES IN LITERATURE emphasized through basic dialogs to b 3 Hrs. Lec. learned, through simple stories to be le Examination of representative literary See a counselor.)

ENG 41 (3) SURVEY OF AMERICAN LITERATURE

3 Hrs. Lec.

Prerequisite: Eng 1B is recommended. study of the works of major America with different content. (CSU, UC) writers. (CSU, UC)

ENG 42A (3) SURVEY OF WORLD LITERATURE LITERATURE 3 Hrs. Lec.

than American and English. (CSU, UC)

ENG 42B (3) SURVEY OF WORLD LITERATURE 3 Hrs. Lec.

Prerequisite: Eng 1B is recommended. Study of selected literature of Neo-classicism, Romanticism, Naturalism, Symbolism and modern schools. Emphasis on literature other than American and English. May be taken before Eng 42A. (CSU, UC)

ENG 43A (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. (CSU, UC)

ENG 43B (3) SURVEY OF ENGLISH LITERATURE 3 Hrs. Lec.

Prerequisite: Same as for Eng 43A. 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 43A. (CSU, UC)

ENG 44ABCD (3-3-3-3) LITERATURE FOR APPRECIATION 3 Hrs. Lec.

Prerequisite: Completion of Eng 3A or 13A 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 non-fiction 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

tened to, and through questions to be all works of a major author, period, genre, or swered orally. (CSU) (UC credit limited 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

ENG 46A (3) THE MEXICAN AMERICAN IN 3 Hrs. Lec.

Prerequisite: Eng 1B is recommended Prerequisite: Eligibility for Eng 1A. Study of Study of selected literature of the Hebrest the contributions by Mexican Americans to Greeks, Romans, the Middle Ages, and the all genres of literature. Course to be devel-Renaissance. Emphasis on literature oth oped 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) (CSU, UC)

ENG 46B (3) THE MEXICAN AMERICAN IN LITERATURE

3 Hrs. Lec.

Prerequisite: Eligibility for Eng 1A. A continuation of Eng 46A with emphasis on contemporary Mexican American writers. Conducted in English. Eng 46B may be taken before Eng 46A. (Same as Span 28B) (CSU, UC)

ENG 47 (3) INTRODUCTION TO THE BIBLE AS LITERATURE

3 Hrs. Lec.

A study of the prose and poetry of the Bible. (CSU, UC)

ENG 50 (3) ADVANCED COMPOSITION 3 Hrs. Lec.

Prerequisite: Eng 1A. Advanced expository prose, argumentation, description and the study of prose style. (CSU, UC)

ENG 51 (3) THE COMMUNICATION PROCESS 3 Hrs. Lec.

Prerequisite: Assignment by placement tests or teacher recommendation. This course is designed to familiarize the student with everyday persuasive language and to develop his/her ability to analyze the message in typical media - TV, radio, newspapers, magazines, and other popular literature. (CSU)

ENG 52 (3) INTRODUCTION TO LINGUISTICS 3 Hrs. Lec.

Prerequisite: Eng 2B, Eng 51, 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/her knowledge of language. Suitable for English speaking and bilingual students. (CSU, UC)

ENG 53AB (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. (CSU, UC)

ENG 54 (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 54, MPP 54) (CSU, UC)

ENG 55 (3) TECHNICAL AND REPORT WRITING 3 Hrs. Lec.

Prerequisite: Eng 51, Eng 2AB, 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. (CSU)

ENG 56 (3) INTRODUCTION TO MOTION PICTURE PRODUCTION 3 Hrs. Lec. Plus production practice

hours to be arranged (Same as MPP 10) (CSU) (UC credit limited. See a counselor.)

ENG 59 (3) GRAMMAR AND USAGE REVIEW 3 Hrs. Lec.

Prerequisite: Placement at Eng 2A level or above. Review of traditional/structural grammar; review of usage rules regarding punctuation, mechanics, capitalization: review of spelling rules; practice with summary/report writing done by the student.

ENG 60ABC (1-1-1) LANGUAGE LABORATORY 2 Hrs. Lab.

Prerequisite: Current enrollment in ESL. Individual language laboratory practice with prepared taped materials and texts in the language laboratory. Practice in listening comprehension and pronunciation. Grammar and sentence development through structured lessons on tapes. Supplementary course for beginning, intermediate and advanced levels in ESL.

ENG 61ABCD (1-1-1-1) 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 arranagement with the student and must be undertaken in the Reading/Writing

ENG 62ABCD (1-1-1-1) 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 63AB (1-1) **SPELLING**

1 Hr. Lec.

Diagnosis of specific spelling problems and prescription of remedies; investigation of the basic spelling rules.

ENG 64 (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/her area(s) of interest. (CSU, UC)

ENVIRONMENTAL SCIENCE

ENV SCI 5 (3) MAN AND HIS ENVIRONMENT 3 Hrs. Lec.

The study of natural resources vital to man's existence. Emphasis on composition of the physical environment and problems associated with contamination of air, water and soil. (Same as Ag 5) (CSU, UC)

FIRE SCIENCE

FIRE SCI 17 (1) **EMERGENCY FIRE/MEDICAL** DISPATCHER

1 Hr. Lec. .5 Hr. Lab.

Prerequisite: Current CPR card. A course to train public safety dispatchers to quickly and accurately interrogate callers requesting medical aid, fire units or rescue services, and dispatch proper emergency vehicles and personnel. Communication between field units and dispatchers, pre-arrival instructions, triage calls, basic life support, record keeping, FCC regulations and roles and responsibilities of dispatcher will be

FIRE SCI 40 (1) INCIDENT COMMAND SYSTEM 1 Hr. Lec.

This course is designed to thoroughly familiarize emergency services personnel with the design components and organization of the Incident Command System. It enables the student to effectively use the Field Operations Guide (FP 420-1). (CSU)

FIRE SCI 50 (2) **VOLUNTEER FIREFIGHTING** PRACTICE

2 Hrs. Lec.

A course designed for volunteer firefighters. This course is designed to provide all the basic operational skills needed by firefighters in a volunteer service. (CSU)

FIRE SCI 60 (3) INTRODUCTION TO FIRE **TECHNOLOGY** 3 Hrs. Lec.

An introduction to fire protection; career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions; basic fire chemistry and physics. (CSU)

FIRE SCI 61 (3) **FUNDAMENTALS OF FIRE PREVENTION** 3 Hrs. Lec.

Organization and function of fire prevention; inspections; surveying and mapping procedures; recognition of fire and life hazards; engineering a solution of a fire hazard; enforcing the solution of a fire hazard; public education aspects of fire prevention. (CSU)

FIRE SCI 62 (3) FIRE PROTECTION EQUIPMENT AND SYSTEMS

3 Hrs. Lec.

A course on the features of design and operation of fire detection and alarm systems, heat/smoke control systems, special protection and sprinkler systems, water supply and portable fire extinguishers.

FIRE SCI 63 (3) **FUNDAMENTALS OF FIRE** BEHAVIOR AND CONTROL

3 Hrs. Lec.

A course encompassing theory and fundamentals of how fires start, spread and are controlled. An in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents and fire control techniques. (CSU)

FIRE SCI 64 (3) FUNDAMENTALS OF FIRE PROTECTION

3 Hrs. Lec.

The theory and fundamentals of fire protection, including fire protection laws, water systems and public fire protection systems: fire protection in buildings and open areas.

FIRE SCI 65 (3) **FUNDAMENTALS OF PERSONAL** FIRE SAFETY AND EMERGENCY **ACTION** 3 Hrs. Lec.

A course designed to provide basic skills in assessing fire dangers, handling common fire situations in the home and/or industry, basic CPR and Standard First Aid. (CSU)

FIRE SCI 70 (2) FIRE MANAGEMENT I 2 Hrs. Lec.

service personnel to the principles of company supervision, personnel management evaluation and training. (CSU)

FIRE SCI 71 (2) FIRE MANAGEMENT II 2 Hrs. Lec.

Prerequisite: Fire Sci 70. This course is a continuation of Fire Management I, and prepares fire service personnel in the prin ciples of company supervision, personnel management, and evaluation and training techniques with a particular emphasis on methodology. (CSU)

FIRE SCI 72 (2) FIRE MANAGEMENT III 2 Hrs. Lec.

This course provides the specific managerial skills required of a fire company officer a chief fire officer in a fire service unit. It in cludes methods and procedures of person nel management from routine through emergency conditions and situations in the fire service unit. (CSU)

FIRE SCI 73 (1) **VOLUNTEER INSTRUCTOR** TRAINING

1 Hr. Lec.

Designed for volunteer fire personnel w a responsibility for training. Emphasizes the teaching and evaluation of manipulative skills employed by the fire service. (CSU

FIRE SCI 90 (2) **PUMP OPERATION I**

2 Hrs. Lec.

Prerequisite: Suggested completion of Fi Sci 60 or Fire Sci 62. A basic course & ment. (CSU)

FIRE SCI 92 (2) ARSON INVESTIGATION I 2 Hrs. Lec.

either paid or volunteer. This course NUTRITION PROGRAMS designed for the fire and police arson in 3 Hrs. Lec. tigator to successfully carry out responsible Prerequisite: Designed for directors of tigator to successfully carry out response ties in arson detection and investigated multiple unit child nutrition programs or

FIRE SCI 93 (2) ARSON INVESTIGATION II

2 Hrs. Lec.

Prerequisite: Fire Sci 92. This is an advanced arson investigator course for fire and police personnel to successfully carry out responsibilities in arson detection and investigation. (CSU)

FIRE SCI 94 (2) FIRE COMMAND I

2 Hrs. Lec.

Prerequisite: Present firefighter status, The fundamentals of officer leadership and either paid or volunteer. A course designed supervisory techniques. Introduces fire 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 preplanning and training requirements for effective performance as an officer. (CSU)

FIRE SCI 95ABCD (1/2-1/2-1/2-1/2) OIL FIRE CONTROL SCHOOL I .2 Hr. Lec. .8 Hr. Lab.

methods of developing, utilizing instruc. This course provides students with general tional materials, and efficient teaching 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. (CSU)

FOOD SERVICES

FST 1 (2) INTRODUCTION TO BASIC FOODS AND FOOD SERVICES 1 Hr. Lec. 2.5 Hrs. Lab.

An overview of the basic skills involved in preparing and serving foods in schools, child care centers, day care programs and commercial establishments. (CSU)

FST 2 (3) MENU DESIGN FOR CHILD NUTRITION PROGRAM 3 Hrs. Lec.

The course develops skills in planning nutritious, attractive and cost effective menus for child nutrition programs. It includes discussion and application of meal patterns; engineers in the fire fighting service while menu production work sessions; student provides the background in general use an preferences; limiting fat, sugar and salt in operation of pumping and related equi children's meals; menu planning principles; costing recipes and menus; alternative menus and styles of service; menu evaluation; and the use of the menu as an educational tool. (CSU)

Prerequisite: Present firefighter state INTRODUCTION TO CHILD

prospective directors. Refresher course for FR 1B (2.5) currently employed directors or overview course for new directors. An overview of challenges and responsibilities in child nutrition programs, including breakfast and lunch programs; nutrition issues and the evaluation of nutrition information; meal planning and food acceptability; issues in food procurement; nutrient retention in quantity food production; attitudes and requirements for sanitation and safety; personal job satisfaction and professionalism; merchandising programs, public relations, and nutrition education. (CSU)

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 enrol-

Student who have recently studied French for three years in high school are recommended to take Fr 3 and Fr 10.

FR 1 (5) **ELEMENTARY FRENCH** 5 Hrs. Lec.

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 hour of individual language laboratory by arrangement. Not open to students who have completed three years of high school French. (CSU, UC)

FR 1A (2.5) **ELEMENTARY FRENCH** 2.5 Hrs. Lec.

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 5 units. Students must plan for onehalf hour of individual language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)

ELEMENTARY FRENCH 2.5 Hrs. Lec.

Prerequisite: Fr 1A. A continuation of Fr 1A. Students must plan for one-half hour of individual language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 2 (5) **ELEMENTARY FRENCH** 5 Hrs. Lec.

Prerequisite: Fr 1 or two years of high school French or placement examination for demonstration of competency in four basic skills. 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 hour of individual language laboratory by arrangement. (CSU, UC)

FR 2A (2.5) **ELEMENTARY FRENCH** 2.5 Hrs. Lec.

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 5 units. Students must plan for one-half hour of individual language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 2B (2.5) **ELEMENTARY FRENCH** 2.5 Hrs. Lec.

Prerequisite: Fr 2A. A continuation of Fr 2A. Students must plan for one-half hour of individual language laboratory by arrangement. (CSU) (UC credit limited. See a counselor.)

FR 3 (4) INTERMEDIATE FRENCH 4 Hrs. Lec.

Prerequisite: Fr 2 or two years of high school French or placement by examination. An intermediate level French course giving a comprehensive review of French grammar and emphasis on written composition and correspondence. Study of a variety of prose models and practice in writing. Students must plan for one hour per week of required language laboratory practice by individual study arrangement. (CSU, UC)

INTERMEDIATE FRENCH READING AND WRITING

3 Hrs. Lec.

Prerequisite: Fr 2 or two years of high school French or placement by examination. Intensive reading and vocabulary development based on cultural and literary materials, including critical analysis and summaries. (CSU, UC)

FR 5 (3) INTERMEDIATE READINGS IN COMMERCIAL FRENCH

3 Hrs. Lec.

Prerequisite: Fr 2 or three years of high school French or placement by examination. An intermediate course in French designed to expand students' knowledge of economics, commerce and the French business world. Classes are conducted in French. Discussions on political, economic and social aspects of French culture. (CSU)

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 laboratory by arrangement. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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 prehistory to the 20th century. Conducted in English. (Same as Hum 40) (CSU, UC)

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) (CSU, UC)

FR 60ABC (1-1-1) LANGUAGE LABORATORY 2 Hrs. Lab.

Prerequisite: Current enrollment in French. Individualized language laboratory practice with prepared taped materials and texts in the language laboratory. Practice in listening comprehension and pronunciation. Supplementary course for beginning, intermediate and advanced levels in French.

GEOGRAPHY

GEOG 1 (3) PHYSICAL GEOGRAPHY

3 Hrs. Lec.

An introduction to the physical characteristics of the earth. Topics include: climate, land forms, natural vegetation, and the water and mineral resources of the earth. (CSU, UC)

GEOG 2 (3) CULTURAL GEOGRAPHY 3 Hrs. Lec.

An introduction to the regions and cultures of the world. Emphasis on the contemporary demographic, linguistic, religious, and economic characteristics of major regions in the world. May be taken before Geog 1. (CSU, UC)

GEOG 3 (3) ECONOMIC GEOGRAPHY 3 Hrs. Lec.

The geography of commercial products. Distribution of production as related to climate, surface features, soils, labor supply and market areas, and the routes along which products move to consuming areas. (CSU, UC)

GEOLOGY

GEOL 1A (4) PHYSICAL GEOLOGY 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: One year of high school science or permission of instructor. Destructive and constructive work of water, ice and

wind; earthquakes and the earth's interior; volcanoes and geysers; rocks and rock formations; mineral resources, coral islands; origin and history of the larger topographic features. (CSU, UC)

GEOL 10 (3) LIFE OF THE PAST: AN INTRODUCTION TO PALEONTOLOGY 3 Hrs. Lec.

Prerequisite: One year of high school science. Biological principles of evolutionary development and types of fossils recorded in the rocks from ancient times to present. The age of invertebrates; the age of dinosaurs and other reptiles; the age of birds; the age of mammals. (Same as Zool 10) (CSU, UC)

GEOL 11 (3) GENERAL GEOLOGY: AN INTRODUCTION TO GEOLOGY

3 Hrs. Lec.

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 landscape. Emphasis on the geology of the Imperial Valley. (CSU) (UC credit limited. See a counselor.)

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 paleogeology. Biological and geological principles in a historical perspective. Emphasis on past events in Imperial Valley. (CSU, UC)

GEOL 12L (1) INTRODUCTION TO GEOLOGY LAB 3 Hrs. Lab.

Prerequisite: 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 paleogeology. Biological and geological principles in an historical perspective. Emphasis of past events in Imperial Valley. (CSU, UC)

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. (CSU, UC)

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 microbe 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. (CSU, UC)

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. (CSU, UC)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU, UC)

GER 10 (3) CONVERSATIONAL GERMAN 3 Hrs. Lec.

Prerequisites: Ger 1 and Ger 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 enrollment in upper division courses. Student must plan for an additional hour of individual language laboratory by arrangement. (CSU, UC)

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. (CSU, UC)

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. (CSU)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

GERONTOLOGY 4 (3) BIOLOGY OF AGING

3 Hrs. Lec.

The course is designed to acquaint the student with the sturctural and functional

49

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU)

GERONTOLOGY 11 (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. (CSU)

GERONTOLOGY 19 (3) THE PSYCHOLOGY OF LOSS 3 Hrs. Lec.

(Same as Psych 19) (CSU)

GRAPHIC ARTS

GA 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. (CSU)

GA 11 (3) GRAPHIC COMMUNICATION II 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: GA 10. A continuation in the preparation of art and mechanics for reproduction in the graphic arts field. Emphasis is on advertising and studio skills. An indepth study of reproduction art in conjunction with offset printing. Student must plan for two additional hours by arrangement. (CSU)

GA 12 (3) COMPOSITION, LAYOUT AND PASTE-UP

2 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: GA 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. (CSU)

GA 20 (3) OFFSET PRINTING I 2 Hrs. Lec. 2 Hrs. Lab.

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 troubleshooting, including standard troubleshooting procedures. (CSU)

OFFSET PRINTING II 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: GA 20. An advanced course in lithographic presswork which allows the student to apply the lithographic theory and experience he/she 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. (CSU)

GA 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. (CSU)

GA 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 troubleshooting, 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, hole-punching, jogging and padding procedures. (CSU)

GA 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 on 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. (CSU)

HEALTH ASSISTANT

The Health Assistant Program (one semester in length) prepares the student to receive a Certificate of Completion from the college. In addition, the student is prepared to receive a Certificate from the California State Department of Health Services as a Certified Nurse's Aide and as a Home Health Aide. The program prepares the student for employment as a health assistant in acute, geriatric, rehabilitation and/or home health care.

An admissions committee reviews all applications. Early application is recommended since a limited number of students can be admitted at one time. Admission requirements include an application on file in the Nursing Office, a health examination and a Nelson/Denny Reading score of ninth grade or Eng 12A. A grade of "C" or better in the program course is required for successful completion. Transportation to the health agencies is the responsibility of the student.

HA 15 (9) **HEALTH ASSISTANT** 3 Hrs. Lec. 18 Hrs. Lab.

Prerequisite: Ninth grade reading level or Eng 12A and admission to the program. This course will prepare the health assistant for certification by the State of California as an entry-level worker on a health care team in a variety of health care agencies. The program is structured with a core curriculum covering theory and skills necessary for all enrolled, followed by four tracks in specialty areas as acute care, geriatric care, rehabilitation, and home health care. (CSU)

Nursing - Continuing Education

Health Assistant

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. An enrollment fee will be charged.

HA 38 (1/4-3) THIS YEAR'S ISSUES IN HEALTH 1/2-3 Hrs. Lec. (Same as RN 38, VN 38) (CSU)

HA 40 (2) **INTRAVENOUS THERAPY** TECHNIQUE

1.8 Hr. Lec. .3 Hr. Lab. Prerequisite: HA 15 or equivalent and permission of instructor. (Same as RN 40, VN 40) (CSU)

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. (CSU, UC)

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. (CSU, UC)

HE 3 (3) **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/her 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/she will be dropped as a No-Show and will not receive credit. HE 3 does not count for units toward VA or full-time student. These are not contact hours. May be taken only once. (CSU)

HEALTH TECHNOLOGIES

HT 1 (2) INTRODUCTION TO HEALTH SCIENCE

2 Hrs. Lec.

In this course the educational requirements and practice demands of the varied careers within the health services are surveyed. Progress and trends in health care delivery since 1940 are presented as a background for the exploration of the current state of the art. Major health problems of the 1980's are identified and the impact of lifestyle. total environment and education on physical and emotional well-being are analyzed. Terminology unique to the health sciences professions and the metric system of weight and measurement are studied.

HT 2 (.5-1.5) THIS YEAR'S ISSUES IN PHARMACY .5-1.5 Hrs. Lec.

A variety of lectures, seminars and workshops covering current issues in pharmacy will be offered each semester for pharmacists and other health personnel interested in securing continuing education units or in updating their knowledge in various aspects of pharmacology. Topics may include pharmacokinetics, drug therapy compliance. pharmacologic agents in disease, chemotherapy, budgeting and planning for pharmacies, etc. Programs will be two or more hours in length. Attendance hours accumulated within one semester totaling a minimum of nine hours will earn .5 units of college credit, and increments of nine hours thereafter will earn .5 college units up to a total of twenty-seven attendance hours which will earn 1.5 college units. C.E. certificates will be issued for each program.

HT 3 (3) MEDICAL TERMINOLOGY 3 Hrs. Lec.

Course of study designed to develop competency in the accurate use of medical vocabulary to include anatomy, physiology, diseases, and descriptive terms and prepare students for entry-level positions as medical transcribers, clinical editors, health insurance processors, and patient administration specialists. (Same as Bus 80) (CSU)

HT 4 (3) MEDICAL TRANSCRIPTION 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Medical Terminology (HT 3/ Bus 80). Ability to type 40 words per minute or permission of the instructor. Course of study designed to prepare students to transcribe medical data/dictation taken from a recording device into typewritten or machine-written records such as patient resumes, surgical procedure documents or special written records. (Same as Bus

HT 5 (3) PATIENT INFORMATION SYSTEMS 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Medical Terminology (HT 3/ Bus 80). Ability to type 40 words per minute or permission of the instructor. Course of study designed to prepare students to use memory typewriters, word processors. micro-computer processors, input/output equipment (CRTs, disc drives, printers, diskettes, magnetic tape, and various software programs) in a hospital, clinic or doctor's office with emphasis on health professionals. (Same as Bus 82)

HT 6 (3) MEDICAL INSURANCE 2 Hrs. Lec. 3 Hrs. Lab.

Prerequisites: Medical Terminology (HT 3/ Bus 80). Ability to type 40 words per minute or permission of the instructor. Course of study designed to prepare students for entry-level positions in patient services administration. The health insurance area, Medicare, Medical, commercial health insurance, Blue Cross, Blue Shield, is extensively covered by classroom instruction and practical experiences. (Same as Bus 83) (CSU)

HT 7 (3) PATIENT ADMINISTRATION **SERVICES** 2 Hrs. Lec. 3 Hrs. Lah.

Course of study designed to prepare students for entry-level positions in hospitals, clinics or doctors' offices. On the job experiences are emphasized by extensive exposure to the various areas such as preadmissions, admissions, financial advisory services, billing, collections, and outpatient accounts. (Same as Bus 84) (CSU)

HT 8 (2) MANAGEMENT OF PATIENT **SERVICES OPERATIONS** 2 Hrs. Lec.

Course is designed for persons interested or connected with patient administrative services in hospitals, clinics, or doctors' offices in a supervisory capacity. Patient services operations as well as patient administrative services philosophy, goals, planning, organizing, control functions, and leadership are covered. (Same as Bus 85) (CSU)

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) (CSU)

HM 36 (5) POWER TRANSMISSION SYSTEMS 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: Either HM 35, Ag 33A, AT 51, or permission of the instructor. The study and repair of power transmitting devices, such as standard transmissions, clutches, hydraulics, differentials, brakes, drive train and tracks. (CSU)

HM 40 (5) DIESEL ENGINE REPAIR 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Ag 33A or Auto Tech 51 or permission of the instructor. The study of diesel engine theory, design, construction, and repair of heavy machinery power units. (Same as Aq 39) (CSU)

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. (CSU, UC) 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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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 1872. This course and either Hist 17B or Poly Sci 1 will meet graduation requirements in American Institutions. (CSU, UC)

HIST 17B (3) UNITED STATES HISTORY 3 Hrs. Lec.

A survey of the political, social, and economic maturation of the United States from the end of the Civil War to the present. This course and either Hist 17A or Poly Sci 2 will meet graduation requirements in American Institutions. May be taken before Hist 17A. (CSU, UC)

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. (CSU, HIST 40 (3)

CIVILIZATION OF SPAIN AND **PORTUGAL** 3 Hrs. Lec. (Same as Span 40) (CSU, UC)

CIVILIZATION OF SPANISH AMERICA AND BRAZIL 3 Hrs. Lec. (Same as Span 41) (CSU, UC)

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 **HONORS 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 and admission to the program. Individual study with special guidance of instructor. Recommended for honor students in a major area offered by the division or for students requesting study in depth in a particular area. By request of students and/or suggestion of instructor and approval of division chairperson. Interdisciplinary conference, with readings, discussion, reports.

HONORS 30AB (1-6) **FIELD STUDY**

Lec./Lab. by arrangement

Regular class instruction for honors students in major area of study offered by a division. Interdisciplinary conference with readings, discussion, and reports. Travel to on-site study areas may be required at the student's expense. Special curriculum 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 the Program Director. Intended for transfer students or students who will take only a portion of one of the Registered Nursing, Vocational Nursing or Health Assistant courses.

HUMANITIES

HUM 1A (3) MAN AND THE ARTS

3 Hrs. Lec.

Prerequisite: Hum 25 or eligibility for Eng IA. 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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

HUM 40 (3) INTRODUCTION TO FRENCH **CIVILIZATION AND CULTURE** 3 Hrs. Lec. (Same as Fr 40) (CSU, UC)

HUM 41 (3) INTRODUCTION TO FRENCH **CIVILIZATION AND CULTURE BEYOND FRANCE** 3 Hrs. Lec.

(Same as Fr 41) (CSU, UC)

HUM 54 (3) INTRODUCTION TO FILM HISTORY AND CRITICISM

2 Hrs. Lec. 2 Hrs. Lab. (Same as Eng 54, MPP 54) (CSU, UC)

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. (Same as Psych 8) (CSU)

HR 8A (1) PERSONAL AND CAREER DEVELOPMENT 1 Hr. Lec.

This course examines the dynamics of selfawareness which are required when making a realistic career decision. Self-awareness will be appraised through an interest inventory, basic skills tests, and a values survey, supported by class discussions about personal interests, abilities, aptitudes, limitations, needs, values, and goals. Additional coursework will acquaint the student with basic college orientation skills which provide knowledge of services, scholastic requirements, and additional educational opportunities. (CSU) HR 8B (1)

PERSONAL AND CAREER DEVELOPMENT 1 Hr. Lec.

This course will provide techniques for obtaining career information through the multi-media resources of the IVC Career Center. Career awareness will be facilitated by exploring the "world of work" through publications, occupational briefs, filmstrips, and EUREKA, the computerized California Career Information System. Factors such as career opportunity, employment, wages, advancement, and required training will be explored. (CSU)

HR 8C (1) PERSONAL AND CAREER **DEVELOPMENT**

1 Hr. Lec.

This course examines the processes for obtaining employment in today's modern job market. Skills development in the areas of job search, employer contact, job application, resume writing, techniques of interviewing, and follow-up will be developed through practical experience. (CSU)

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 ADS 9/ Psych 9) (CSU)

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) (CSU)

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. ADS/HR/Psych 11B offers an opportunity for the student either to continue with the ADS/HR/Psych 11A experience or to elect an assignment at another agency or location. ADS/HR/Psych 11A shall not be taken concurrently with ADS/HR/Psych 11B. (Same as ADS 11AB/ Psych 11AB) This course will be offered on a credit (Cr) basis only. (CSU)

HR 16 (3) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 3 Hrs. Lec.

(Same as Psych 16) (CSU)

HR 16A (1) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 1 Hr. Lec. (Same as Psych 16) (CSU)

HR 16B (1) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 1 Hr. Lec.

INTERPERSONAL RELATIONSHIPS

(Same as Psych 16B) (CSU) HR 16C (1) THE PSYCHOLOGY OF

1 Hr. Lec. (Same as Psych 16C) (CSU)

COLLEGE STUDY TECHNIQUES 2 Hrs. Lab.

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.

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 nontransferable.

INDSTU 49ABCD (1/2-1 1/2-1 1/2-1) 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. Thirtysix (36) hours of independent study in the NLC per semester will earn 1 unit of credit.

IND STU 89ABCD (1-2 1-2 1-2) INDIVIDUAL STUDIES FOR THE LEARNING CENTER 2-4 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 four basic language skills: hearing, speaking, reading, and writing with emphasis on contemporary usage and grammatical emphasis on the present tense. The sequence of

Ital 1A and 1B is equivalent to a regular 4unit 1-semester college level Italian course. (CSU, UC)

ITAL 1B (2) **ELEMENTARY ITALIAN** 2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: Ital 1A. A continuation of Ital 1A. Grammatical emphasis on the future and present perfect tense and the imperative mode. The sequence of Ital 1A and 1B is equivalent to a regular 4-unit 1-semester college level Italian course. (CSU, UC)

JOURNALISM

INTRODUCTION TO JOURNALISM 3 Hrs. Lec.

Prerequisite: Eligibility for Eng 2B or Eng 1A. The course focuses on the newspaper as a vehicle for communication within a community. Students study basic components of print journalism including types of articles, writing style, interview techniques, makeup, and ethics. (CSU, UC)

JRN 2ABC (4-4-4) NEWSPAPER PRODUCTION 3 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Jrn 1 or equivalent. Course provides a concrete introduction to principles and techniques of newspaper production through work on the student newspaper. Students assume specific staff positions with corresponding responsibilities for the paper's production. Lab work includes editing of stories, planning pages, headline writing, proofreading, and pasteup. (CSU, UC)

JRN 3 (3) MASS COMMUNICATIONS 3 Hrs. Lec.

Survey of mass media; their interrelationships, their problems and responsibilities. Relationship of the mass media to the individual. (CSU, UC)

JRN 5 (3) INTRODUCTION TO **PHOTOGRAPHY** 2 Hrs. Lec. 3 Hrs. Lab. (Same as Ph 5) (CSU) (UC credit limited.

See a counselor.)

JRN 8 (3) PUBLIC RELATIONS TECHNIQUES 3 Hrs. Lec.

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) (CSU)

LEGAL ASSISTANT

LA 21 (3) RESEARCH AND CRIMINAL LAW 3 Hrs. Lec.

An introductory course regarding the use of the legal library, research techniques and drafting legal documents. Includes the Penal Code and other criminal statutes and provides an understanding of the elements of crimes and defenses. (CSU)

I.A 22 (3) CIVIL PROCEDURES & FAMILY LAW 3 Hrs. Lec.

An introductory course in basic civil procedures, court systems, and procedures as they apply to federal, state, and civil laws. Includes topics in family law relative to marriage, community property, dissolution, parent-child relations, and adoption. (CSU)

IA 23 (3) CIVIL DISCOVERY AND TORTS 3 Hrs. Lec.

A study of the fundamental principles of the law of torts and examination of the techniques of investigation involved in the lawyer's handling of tort claims, including various forms of pleadings. An examination of the rules of civil evidence and the admissibility of evidence, depositions, interrogations, admissions, notices to produce, and related rules of discovery and evidence.

LA 24 (3) CORPORATIONS & BANKRUPTCY 3 Hrs. Lec.

This course covers the principles of agency, principal and third parties, formation and management of California corporations, the rights and liabilities of stockholders, and corporate reorganization and dissolution. It includes regulations of state and federal governments relating to income, deductions, exemptions, depreciation, and capital gains and losses. It also includes a study of the bankruptcy laws and procedures with topics on creditors' rights, debtors' exemptions, and secured transactions. (CSU)

LA 25 (3) REAL ESTATE LAW FOR LEGAL **ASSISTANTS**

3 Hrs. Lec. The study of the legal background in prop erty ownership, with special reference to the law of California as it applies to community property, conveyances, deeds, trust deeds, mortgages, homesteads, and estates, etc. (CSU)

LA 26 (3) WILLS - TRUSTS - PROBATE 3 Hrs. Lec.

A study of the fundamental principles of the law of wills and trusts including simple will and trust forms. An examination of the organization and jurisdiction of a California Probate Court including gift, inheritance and estate taxes, and practice in documentation, (CSU)

LIBRARY TECHNICIAN

INTRODUCTION TO LIBRARY **SERVICES**

3 Hrs. Lec.

This course is an introduction to libraries and their organization. It is designed for students interested in employment in school, public, or college libraries as library technicians. Basic philosophy, procedures, tools, and techniques for library routines are emphasized. (CSU)

SUPPORT FOR TECHNICAL **SERVICES**

3 Hrs. Lec.

Prerequisites: LT 51 or consent of the instructor. An introduction to the various semi-professional tasks in the technical processes phase of library operation. (CSU)

LT 53 (3) SUPPORT FOR PUBLIC SERVICES 3 Hrs. Lec.

Prerequisites: LT 51 or consent of the instructor. Library public relations, circulation control systems and location of information through use of card catalogs. indexes, and basic reference books. (CSU)

INTRODUCTION TO AUDIOVISUAL SERVICES

3 Hrs. Lec.

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. (CSU)

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

Enrollment in math courses requiring a prerequisite is not allowed unless the prerequisite math class is passed with a "C" grade or better.

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.

Prerequisite: Math X and Math Y. This one semester course is equivalent to a second year algebra course offered a full year in high school. Topics covered include the real number system, polynomials, rational expressions, exponential and radical forms. linear and quadratic equations, relations, functions and graphs, systems of equations and inequalities. (CSU)

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/she expects to transfer to identifv 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

55

trigonometric functions; the complex numbers; theory of equations; systems of equations; permutations, combinations, the binomial theorem, probability. (CSU, UC)

MATH 3A (5) ANALYTIC GEOMETRY AND **CALCULUS**

5 Hrs. Lec.

Prerequisite: Math 2 or equivalent. Concepts dealing with limits, continuity, differentiation and applications, integration and applications, exponential and logarithmic functions, and other transcendental functions. (CSU, UC)

MATH 3B (5) **ANALYTIC GEOMETRY AND CALCULUS**

5 Hrs. Lec.

Prerequisite: Math 3A. Concepts dealing with methods of integration, plane analytic geometry, polar coordinates, vectors and parametric equations, and infinite series. (CSU, UC)

MATH 4 (4) CALCULUS AND DIFFERENTIAL **EQUATIONS**

5 Hrs. Lec.

Prerequisite: Math 3B. Concepts dealing with partial differentiation, multiple integration, vector analysis, and differential equations. (CSU, UC)

MATH 10 (3) MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS

3 Hrs. Lec.

Prerequisites: Math X and Math Y, or the equivalent, or permission of the 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. (CSU, UC)

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, introduction to probability, probability distributions, confidence intervals, sample size determination and hypothesis testing. (Same as Psych 12) (CSU, UC)

MATH 17 (3) **MATHEMATICS FOR BUSINESS ANALYSIS**

3 Hrs. Lec.

Prerequisite: 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 covered include elementary concept in arithmetic and algebra, mathematics of finance, matrices, linear programming, and calculus. (Same as Bus 9) (CSU, UC)

MATH 47 (3) PROGRAMMING IN FORTRAN 3 Hrs. Lec.

(Same as Bus 55) (CSU) (UC credit limited. See a counselor.)

MATH 50 (3) SHOP MATHEMATICS 3 Hrs. Lec.

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, percent, square root, and an introduction to algebra. This course is not open to students having satisfactory scores on mathematics placement tests.

MATH 57 (3) PROGRAMMING IN BASIC

3 Hrs. Lec. (Same as Bus 57) (CSU) (UC credit limited. See a counselor.)

MATH 58 (3) COMPUTER PROGRAMMING IN PASCAL

3 Hrs. Lec.

Prerequisite: Math proficiency equivalent to Math A or permission of instructor. Introduction to machine and data organization. Design and analysis of algorithms, flowcharts, and complete programs. Extensive programming of problems on computers in Pascal. (CSU)

MATH 60 (1) MATH LAB 2 Hrs. Lab.

Prerequisite: Concurrent enrollment in Math/Ag/Auto Tech/PL/Weld 50, Math 51 or Math X. Designed for the student needing additional help and/or personal instruction.

MOTION PICTURE PRODUCTION

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 filmmaking process in 8mm, including scripting, shooting, and editing. The college will provide the necessary equipment. Students supply materials. (Same as Eng 56) (CSU) (UC credit limited. See a counselor.)

MPP 11 (3) FUNDAMENTALS OF SOUND MOTION PICTURE PRODUCTION 3 Hrs. Lec.

Prerequisite: MPP 10 or equivalent. 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. (CSU) (UC credit limited. See a counselor.)

MPP 12 (3) FUNDAMENTALS OF DOCUMEN-TARY FILM 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 10 minute motion picture. Students supply materials. (CSU) (UC credit limited. See a counselor.)

MPP 13 (1) TV STATION OBSERVATION, OPERATION AND MANAGEMENT I 2 Hrs. Lab.

Prerequisite: Completion of MPP 10, enrollment in MPP 11, or its completion and permission of the instructor. The student shall observe the various activities and departments at a television station. He/she 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.

MPP 54 (3) INTRODUCTION TO FILM HISTORY AND CRITICISM

2 Hrs. Lec. 2 Hrs. Lab. (Same as Eng 54, Hum 54) (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

MUS 8B (2) BEGINNING MUSICIANSHIP 2 Hrs. Lec.

Prerequisite: Mus 8A. Continuation of Mus 8A. (CSU, UC)

MUS 8C (2) INTERMEDIATE MUSICIANSHIP 2 Hrs. Lec.

Prerequisite: Mus 8B. A continuation of Mus 8A and 8B to increase skills in sight-singing, ear-training, and keyboard harmony. (CSU, UC)

MUS 8D (2) INTERMEDIATE MUSICIANSHIP 2 Hrs. Lec.

Prerequisite: Mus 8C. A continuation of Mus 8C. (CSU, UC)

MUS 9A (3) BEGINNING HARMONY 3 Hrs. Lec.

Prerequisite: Mus 7 or Mus 8A concurrently or consent of the instructor. Sight-singing, dictation, and keyboard harmony. Traditional diatonic harmony, four-voice writing, analysis. (CSU, UC)

MUS 9B (3) BEGINNING HARMONY 3 Hrs. Lec.

Prerequisite: Mus 9A. A continuation of Mus 9A. (CSU, UC)

MUS 9C (3) INTERMEDIATE HARMONY 3 Hrs. Lec.

Prerequisite: Mus 9B. A comprehensive study of the theory of music to include skills and creative experiences in traditional harmony. An introduction to 20th century harmonic and melodic systems. (CSU, UC)

MUS 9D (3) INTERMEDIATE HARMONY 3 Hrs. Lec.

Prerequisite: Mus 9C. A continuation of Mus 9C. (CSU, UC)

MUS 10A (1) BEGINNING GROUP PIANO I 1 Hr. Lec. 2 Hrs. Lab.

A course structured to correlate those musical skills, techniques and understandings which are basic to comprehensive keyboard musicianship at the early level of study. (CSU) (UC credit limited. See a counselor.)

MUS 10B (1) BEGINNING GROUP PIANO II 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 10A. A continuation of Mus 10A. (CSU) (UC credit limited. See a counselor.)

MUS 11A (1) INTERMEDIATE GROUP PIANO I 1 Hr. Lec. 2 Hrs. Lab.

Prerequisites: Mus 10A and 10B or equivalent. A course structured for those students who have attained the performance skill competencies required in Beginning Group Piano. (CSU) (UC credit limited. See a counselor.)

MUS 11B (1) INTERMEDIATE GROUP PIANO II 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 11A. A continuation of Mus 11A. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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, diminshed, augmented, and various altered chords; 3. Advanced picking techniques. (CSU) (UC credit limited. See a counselor.)

MUS 15A (1) BEGINNING CLASS VOICE 1 Hr. Lec. 2 Hrs. Lab.

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. (CSU) (UC credit limited. See a counselor.)

MUS 15B (1) BEGINNING CLASS VOICE 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Mus 15A or its equivalent. A continuation of Mus 15A. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

MUS 17ABCD (1-1-1-1) CHAMBER SINGERS 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Mus 15A or permission of the instructor. A study and performance representative of music of all styles, sacred and secular, a cappella, and accompanied. A minimum of six outside performances

required each semester. (CSU) (UC credit limited. See a counselor.)

MUS 18ABCD (1-1-1-1) CHAMBER ORCHESTRA 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Permission of the instructor. A study and performance of 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. (CSU) (UC credit limited. See a counselor.)

MUS 19ABCD (1-1-1-1) 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. (CSU) (UC credit limited. See a counselor.)

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. (CSU, UC)

MUS 20B (3) HISTORY AND LITERATURE OF MUSIC

3 Hrs. Lec.

A continuation of Mus 20A. (CSU, UC)

MUS 21ABCD (1-1-1-1) BRASS, WOODWIND AND PERCUSSION METHODS 1 Hr. Lec. 2 Hrs. Lab.

In-depth study and performance of literature for brass, woodwind, string, and percussion instruments. (CSU) (UC credit limited. See a counselor.)

MUS 25ABCD (1-1-1-1) STAGE BAND 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Mus 21AD 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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

MUS 27ABCD (1-1-1-1) CONCERT BAND 2 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Music 21AD 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. (CSU) (UC credit limited. See a counselor.)

MUS 28ABCD (1-1-1-1) 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. (CSU) (UC credit limited. See a counselor.)

MUS 29ABCD (1-1-1-1) 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. (CSU) (UC credit limited. See a counselor.)

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. (CSU, UC)

MUS 31 (3) INTRODUCTION TO TWENTIETHCENTURY MUSIC 3 Hrs. Lec.

An introduction to contemporary music. Study includes twentieth-century art music, country western, and popular music with emphasis on the social and artistic factors that influence the development of each. (CSU, UC)

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. (CSU) (UC credit limited. See a counselor.)

MUS 64 (1) 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. (CSU) (UC credit limited. See a counselor.)

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, Geog 2, Geol 1A, or Astron 1.

NURSING

Imperial Valley College offers a career ladder nursing program. Students entering the program currently have two options:

- Vocational Nurse the student is eligible to write the state board examination for licensure as a vocational nurse upon successful completion of the designated prerequisites and Semester I, II and III of the nursing curriculum as outlined on page 85 of the catalog.
- Associate Degree Nurse the student is eligible to write the state board examination for licensure as a registered nurse upon successful completion of the designated prerequisites and Semesters I, II, III and IV of the nursing curriculum as outlined on pages 84 and 85 of the catalog.

Students who complete the Vocational Nurse requirements including prerequisites and general education courses will be granted a Certificate of Completion from the college. Students who complete the total program, including prerequisites and general education courses, will be granted an Associate of Science degree in Nursing from the college.

The Imperial Valley College Nursing Program is fully accredited by the California Board of Registered Nursing and the Board of Vocational Nurse and Psychiatric Technician Examiners.

Admission to the Program

All students who have completed the academic prerequisites with a grade of "C" or better and are in good health are eligible for admission. Admission requirements for beginning students are as follows:

- Graduation from an accredited high school or the equivalent.
- 2. Admission to the college.
- Satisfactory scores on the college placement test in English and Math or Eng 1A and Math 51.
- A minimum G.P.A. of 2.0 in all prerequisite course work.

Students are responsible for prerequisite requirements for general education courses. Transportation to class and to clinical laboratory is the responsibility of the student.

Application Procedure

- 1. Apply for admission to the college.
- Make an appointment with the counselor to take the college placement tests in Math and English.
- Submit two transcripts from high school and previous college work.
 Send one copy to the college admission office and one to the nursing office.
- Apply for admission to the nursing program.

Students will be admitted to the program each semester. Applications will be accepted until March 1 prior to Fall admission and until August 1 for Spring admission.

Advanced Placement

Applicants who have had previous nursing education or nursing work experience in the following areas will be considered for advanced placement:

 Accredited Vocational or Practical Nursing Program

- Nurse's Aide or non-accredited Vocational Nursing Program
- 3. Accredited Professional Nursing Courses
- 4. Accredited Psychiatric Technician Courses
- 5. Armed Services Nursing Courses
- 6. Certified Nurse Assistant Courses

Eligibility for transfer/challenge credit and/or advanced placement is determined on an individual basis by the Division of Nursing. Courses in natural sciences, taken within five years, that meet program requirements will be accepted. Behavioral and social science courses will be evaluated for recency on an individual basis.

Licensed Vocational Nurses who seek advanced placement in the registered nurse curriculum have two alternatives: 1) complete the degree program, or 2) complete selected courses which meet the California Board of Registered Nurses thirty (30) unit option requirements. Specific details are available in the Nursing Office. Preference will be given to those applicants who have completed applications on file in the Nursing Office two months prior to starting nursing courses.

Progression Policies

- 1 The required nursing and general education courses outlined on page 84 of the catalog must be taken in the sequence listed. Students may take some or all general education courses before entering the program but may not complete them later than the semester indicated on page 84 of the catalog. The college reading requirement must be met prior to graduation.
- 2 A grade point average of 2.0 must be maintained in every course required by the nursing curriculum. A student who makes grade lower than a 2.0 in any course required by the nursing program must repeat the course.
- 3 Required courses in Microbiology and Anatomy/Physiology taken more than five years previous to enrollment must be re peated. Other courses are evaluated on an individual basis.
- 4 Nursing courses may be repeated one time. If a student is unsuccessful a second time, he/she must contact the Director of Nursing Education and Health Technologies who will evaluate the student's academic situation and, with the student, will develop a plan of remediation.

NS 1A (4) INTRODUCTION TO PATIENT CARE I

2 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: HT 1, Anat 10 or Anat 6, Psych 1A, and admission to the nursing program. Theory and skills basic to the provision of safe nursing care are introduced in the classroom and the skills laboratory. Components of the nursing process are studied. Parameters of health are defined and the physical and psychological needs of the normal individual explored. (CSU)

NS 1B (4) INTRODUCTION TO PATIENT CARE II 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: NS 1A and NS 1C or permission of the instructor. Communication skills are presented in this course. Basic psychological and physiological concepts related to stress that cause disruptions in the individual's ability to adapt to his/her environ-

to stress that cause disruptions in the individual's ability to adapt to his/her environment are presented in the classroom. Concurrently in clinical sessions, the student relates learned skills and theory to the care of patients with well-defined commonly occurring illnesses in the hospital setting. (CSU)

NS 1C (1.5) PHARMACOLOGY I 1.5 Hrs. Lec.

Prerequisite: Admission to the Nursing Program or permission of the instructor. An introductory course in Pharmacology designed to assist the student to acquire basic skills in drug dosage calculations and the administration of medications. A skills laboratory requirement is included. Clinical application will be integrated into NS 1B. (CSU)

NS 2A (5.5) MATERNITY CYCLE 2.5 Hrs. Lec. 9 Hrs. Lab.

Prerequisite: NS 1B or permission of the instructor. The nursing process is used to assess the needs of and devise a plan of care for the pregnant woman through the maternity cycle. Consideration is given to the physiological, psychosocial, cultural, and economic factors which have impact on the mother, infant, and the family as a whole. Concurrent classroom and clinical experience are provided. (CSU)

NS 2B (5.5) COMMON HEALTH PROBLEMS I 2.5 Hrs. Lec. 9 Hrs. Lab.

Prerequisite: NS 2A, NS 2C or permission of the instructor. The first of three nine-week courses designed to provide a progressive and sequential study of common well-defined health problems of the cardio-vascular and respiratory systems are presented. Transition from wellness to illness is emphasized. Concepts acquired in previous courses are applied with increasing

complexity to caring for individuals of all ages. Physiological, psychological, emotional, cultural, and social concepts are integrated into the planning and implementation of nursing care. Concurrent classroom and clinical experience are provided. (CSU)

NS 2C (1.5-2) PHARMACOLOGY II 1.5-2 Hrs. Lec.

Prerequisites: NS 1B, NS 1C or permission of the instructor. This course focuses on those components of pharmacology related to safe nursing care. It includes information about the general classification of drugs and principles of therapy related to the effects, actions, and therapeutic use of each drug. The nursing actions and rationale for nursing actions are covered. Clinical application is integrated into the clinical nursing courses. Vocational nursing students are required to complete 1.5 units. Associate degree students are required to complete 2 units. (CSU)

NS 3A (6.5) COMMON HEALTH PROBLEMS II 2.5 Hrs. Lec. 12 Hrs. Lab.

Prerequisite: NS 2A, NS 2C, NS 2B, NS 3C or permission of the instructor. The second of three nine-week courses designed to provide a progressive and sequential study of common well-defined health problems is presented. Emphasis is placed on the immune, endocrine, reproductive, neurological, and musculoskeletal systems. Concepts acquired in previous courses are applied with increasing complexity in caring for individuals of all ages. Physiological, psychological, emotional, cultural, and social aspects are integrated into the planning and implementation of nursing care. Concurrent clinical experiences are provided whenever possible. In conjunction, appropriate nursing skills are learned in the classroom. (CSU)

NS 3B (6.5) COMMON HEALTH PROBLEMS III 2.5 Hrs. Lec. 12 Hrs. Lab. Prerequisites: NS 2A, NS 2C, NS 2B, NS

3C, NS 3A or permission of the instructor. The final nine-week course designed to provide a progressive and sequential study of common well-defined health problems is presented in Nursing 3B. The concepts from previous courses are applied with increasing complexity to the caring of individuals throughout the lifespan. The pathophysiology, treatment, and nursing management of common disorders involving the gastrointestinal and renal systems are studied in a progressive sequence across the lifespan. Principles of growth and development are reinforced. The nursing process is utilized by the student to identify the problems and nursing interventions needed for selected patients in the clinical setting.

59

NS 3C (.5-1) PATIENT CARE MANAGEMENT .5-1 Hr. Lec.

Prerequisite: NS 2A or permission of the instructor. To be taken concurrent with NS 2B. An overview of the leadership and management process as it relates to management of patient care is presented. Clinical application is integrated into NS 3A, NS 3B and all subsequent nursing courses. (CSU)

NS 4A (4.5) COMMON HEALTH PROBLEMS IV 2 Hrs. Lec. 7.5 Hrs. Lab.

Prerequisites: NS 3B, NS 3C or permission of the instructor. This course is concerned with an individual's response to stress and crisis. The promotion of mental health, intervention in maladaptive disorders, and the rehabilitation of chronic disorders is presented in concurrent classroom and clinical settings. Cultural and social attitudes toward behavior which deviates from accepted norms is discussed. (CSU)

NS 4B (4.5) ADVANCED NURSING 2 Hrs. Lec. 7.5 Hrs. Lab.

Prerequisite: NS 4A or permission of the instructor. In-depth study of patients with increasingly complex health problems is presented. The nursing process is used to plan and implement nursing care for a group of patients. Concurrent clinical experience in specialty areas is arranged. (CSU)

NS 4C (1) NURSING TRENDS 1 Hr. Lec.

Prerequisite: NS 3B or permission of the instructor. Current issues affecting nursing are discussed. Legislation, health care delivery systems, and legal and ethical aspects of health care are integrated into the clinical component of NS 4B. Upon successful completion of NS 4B and NS 4C, the student is eligible to write the examination for Registered Nurse. (CSU)

NURSING CONTINUING EDUCATION

Registered Nursing

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. An enrollment 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.

THIS YEAR'S ISSUES IN HEALTH 1/4-3 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 totalling a minimum of 9 will earn 1/2 college unit and increments of 9 hours thereafter will earn ½ 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) (CSU)

RN 39 (6) NURSING THE ACUTELY ILL

6.7 Hrs. Lec. Prerequisite: Permission of the instructor. 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) (CSU)

RN 40 (2) INTRAVENOUS THERAPY **TECHNIQUE** 1.8 Hrs. Lec. .3 Hr. Lab.

Prerequisite: Permission of the instructor. 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) (CSU)

RN 41 (2) PHYSICAL ASSESSMENT SKILLS FOR NURSES 2 Hrs. Lec.

Prerequisite: Completion of an RN program or permission of the instructor. Class is limited to 15 students. Attendance policy requires makeup of any absences according to instructor assignment. Few clinical skills are in more demand than the nurse's ability to make rapid accurate patient assessments. This course is designed to delineate assessment parameters and the common variations in the adult patient. Students will have the opportunity to identify and discuss common findings, observe assessment techniques, and do return demonstrations.

Vocational Nursing

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. An enrollment 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.

UN 38 (1/2-3) THIS YEAR'S ISSUES IN HEALTH 1/2-3 Hrs. Lec. (Same as RN 38, HA 38) (CSU)

NURSING THE ACUTELY ILL 6.7 Hrs. Lec. (Same as RN 39) (CSU)

VN 40 (2) INTRAVENOUS THERAPY **TECHNIQUE** 1.8 Hrs. Lec. .3 Hr. Lab. (Same as RN 40, HA 40) (CSU)

(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

- 1. 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

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 graduation20 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. 60

PHILOSOPHY

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 mindbody problems. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

PHOTOGRAPHY

PH 5 (3) INTRODUCTION TO **PHOTOGRAPHY**

2 Hrs. Lec. 3 Hrs. Lab. The basic theory, techniques, skills, and artistic expression of photography. Consideration will be given to factors such as correct use of cameras and lenses, determination of exposure, different types of film 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 techniques. The studen will provide an adjustable camera for assign ment work. The concept of photography as an art form will be introduced, and projects requiring artistic expression will be as signed. (Same as Jrn 5) (CSU) (UC credit limited. See a counselor.)

PH 6 (3) INTERMEDIATE PHOTOGRAPHY 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. (CSU) (UC credit limited. See a counselor.)

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 layout, (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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/her DD214 or equivalent supporting document to the Admissions Office. If a student signs up for the class for military credit and does not submit verification of service, he/she 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. (CSU)

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. (CSU) (UC credit limited. See a counselor.)

PE 3ABCD (1-1-1-1) PHYSICAL FITNESS, WOMEN 2 Hrs. Lab.

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. (CSU) (UC credit limited. See a counselor.)

PE 4ABCD (1-1-1-1) **BADMINTON, COED** 2 Hrs. Lab.

Etiquette, rules, background, and techniques of playing badminton. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 6 (2) LIFESAVING 11/2 Hrs. Lec. 11/2 Hrs. Lab.

Prerequisite: PE 5B or approval of the instructor. Techniques of lifesaving and water safety. This course meets requirements of the Red Cross Senior Lifesaving Certificate. (CSU, UC)

PE 7 (2) WATER SAFETY INSTRUCTOR TRAINING

1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Advanced Lifesaving 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 lifesaving, 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 Instructor. (CSU, UC)

PE 8ABCD (1-1-1-1) BOWLING, COED 2 Hrs. Lab.

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. (CSU) (UC credit limited. See a counselor.)

PE 9ABCD (1-1-1-1) ADAPTED PHYSICAL EXERCISES. COED 2 Hrs. Lab.

Open only to students who are unable to participate in the regular physical education program. The course is specifically designed to meet the individual needs of these students. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 13 (1) ADVANCED TENNIS, COED 2 Hrs. Lab.

Prerequisite: PE 12ABCD or approval of the 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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 17ABCD (1-1-1-1) PHYSICAL FITNESS, MEN

2 Hrs. Lab.

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. (CSU) (UC credit limited. See a counselor.)

PE 18ABCD (1-1-1-1) GOLF, COED

2 Hrs. Lab.

Offers training in the fundamentals of strokes with irons, woods, and putters; includes rules and etiquette of the game. Actual participation upon a golf course and the worthy use of leisure time are emphasized. (CSU) (UC credit limited. See a counselor.)

PE 20ABCD (1-1-1-1) SOFTBALL, COED

2 Hrs. Lab.

This course is designed to emphasize the fundamentals, knowledge of rules, coaching techniques, and basic knowledge of the game of softball. (CSU) (UC credit limited. See a counselor.)

PE 21ABCD (2-2-2-2) ADVANCED SPORTS ACTIVITY, COED

1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Prior competitive background or permission of the instructor. This course is designed for students with previous experience in the sports of volleyball, softball, and basketball. The course will cover basic fundamentals as well as advanced team strategies found in competitive situations. A minimum of fifteen hours per semester for each student is required in outside activities such as community sports and recreational programs. (CSU) (UC credit limited. See a counselor.)

PE 22ABCD (1-1-1-1) RACQUETBALL AND HANDBALL, COED

2 Hrs. Lab.

Instruction and development of the handball skills. Presentation of singles and doubles play, including basic shots and strategy. (CSU) (UC credit limited. See a counselor.)

PE 23ABCD (1-1-1-1) BASKETBALL FOR WOMEN

2 Hrs. Lab.

Designed for women students interested in basketball. To offer basic and advanced fundamentals, team play, and strategy. (CSU) (UC credit limited. See a counselor.)

PE 24ABCD (1-1-1-1) BASKETBALL FOR MEN

2 Hrs. Lab.

An introduction to the fundamental skills and strategy of the game. Rules and class competition are included in the course. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 29ABCD (1-1-1-1) JAZZ DANCE, COED

2 Hrs. Lab. A study of syncopated movement. (CSU) (UC credit limited. See a counselor.)

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. (CSU)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 35AB (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. (CSU) (UC credit limited. See a counselor.)

INTERCOLLEGIATE GOLF AND P.E. PE 36AB (2-2) Hours to be arranged

Theory and practice of golf. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 38AB (2-2) INTERCOLLEGIATE TENNIS AND P.E.

Hours to be arranged

Eligibility will be determined by 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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 41AB (2-2) INTERCOLLEGIATE VOLLEYBALL AND P.E.

Hours to be arranged

Prerequisites: Eligibility will be determined by Conference rules. IVC guidelines in the AS 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. (CSU) (UC credit limited. See a counselor.)

PE 42AB (2-2) INTERCOLLEGIATE SOCCER AND P.E.

Hours to be arranged

Theory and practice of soccer. Limited to students trying out for varsity team. The student must schedule for a minimum of 10 hours per week. (CSU) (UC credit limited. See a counselor.)

PE 43AB (2-2) INTERCOLLEGIATE SOFTBALL AND P.E.

Hours to be arranged

Theory and practice of women's softball. Limited to students trying out for varsity team. The students must schedule for a minimum of 10 hours per week, (CSU) (UC credit limited. See a counselor.)

PE 44 (1) **DEFENSIVE TACTICS** 2 Hrs. Lab.

(Same as Adm Jus 23) (CSU) (UC credit limited. See a counselor.)

PE 45ABCD (1-1-1-1) INDIVIDUAL SPORTS FOR THE PHYSICALLY LIMITED 2 Hrs. Lab.

This course is designed to promote individual skill development for the physically limited student. (CSU, UC)

PE 46ABCD (1-1-1-1) GROUP SPORTS FOR THE PHYSICALLY LIMITED 2 Hrs. Lab.

This course is designed to broaden the physically limited student's awareness of group activities and develop a willingness to participate. (CSU, UC)

PE 47 (2) COACHING TECHNIQUES OF WRESTLING

2 Hrs. Lec.

Course designed to prepare physical education students with the basic knowledge of wrestling fundamentals and coaching techniques. Organization of new programs and conducting of tournaments. (CSU) (UC credit limited. See a counselor.)

PE 50 (2) INTRODUCTION TO PHYSICAL **EDUCATION**

2 Hrs. Lec.

Principles and organization of physical education and areas of specialization within the field. (CSU) (UC credit limited. See a counselor.)

STRUCTURING INTRAMURALS 1 Hr. Lec. 2 Hrs. Lab.

Prerequisite: Basic knowledge and/or experience in competitive sports and recreational games. The course is designed to provide students experience in structuring, sion of instructor. A course covering all the

tournaments through assisting in the IVC intramural program. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PE 55AB (2-2) THEORY OF WOMEN'S TEAM SPORTS, COED 2 Hrs. Lec.

This course is designed for those interested in women's volleyball, basketball, and softball as potential coaches. Provides students with knowledge of fundamental concepts. theories and techniques of coaching, and playing these sports. (CSU) (UC credit limited. See a counselor.)

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. (CSU, UC)

PE 58 (2) **PSYCHOLOGY OF COACHING** 2 Hrs. Lec.

Prerequisites: Sophomore status or permis-

various types of sports and recreation 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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU)

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. (CSU) (UC credit limited. See a counselor.)

PHYSICALLY LIMITED

PL 1 (3) UNDERSTANDING EXCEPTIONAL STUDENTS 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: 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/Psych 27)

PL 2AB (2-2) PRACTICUM EXPERIENCE TO WORK WITH THE PHYSICALLY LIMITED PERSON

1 Hr. Lec. 3 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 specific area of contact with physically limited individuals. Experience may be gained on the college campus or in the field with deaf, blind, or orthopedically handicapped individuals. This course may be repeated to provide experience in a second area. Course may be taken for credit or letter grade. (CSU)

PL 3 (1-6) SURVEY OF CAMPUS LIFE FOR THE PHYSICALLY LIMITED 1-6 Hrs. Lec.

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. (CSU)

PL 4AB (2-2) LIVING WITH A HEARING LOSS 2 Hrs. Lec.

A course designed to help reduce the communication barriers often present when a person has a hearing loss. The nature of each loss, the use of hearing aids, factors influencing lipreading ability, and problems arising from living with a hearing loss will be discussed. The course is designed specially for the mature person who has an acquired hearing loss.

PL 6ABCD (1-4 1-4 1-4 1-4) PERSONAL AND SOCIAL ADJUSTMENT FOR THE PHYSICALLY LIMITED 1-4 Hrs. Lec.

This course is designed to help the physically limited students who have difficulty in adjusting to the educational complexities encountered in college level classes because of deficiencies in their educational backgrounds.

PL 7ABCD (1-4 1-4 1-4 1-4) ACADEMIC SUPPORT SERVICES 2-8 Hrs. Lab.

This course is designed to provide academic support services to the physically limited and adaptive learning students who are taking classes in the area of natural science and math; behavioral and social science area; humanities, fine arts and foreign language area; English and speech area; and vocational-occupational area. In addition, the course is designed to assist students in developing their basic skills.

PL 8ABCD (1-4 1-4 1-4 1-4) COUNSELING AND GUIDANCE SUPPORT SERVICES 2-8 Hrs. Lab.

This course is designed to provide counseling and guidance support services to physically limited and adaptive learning students by means of diagnostic testing, assistance with vocational education classes, assessment of individualized progress, and personal, academic, and vocational counseling. Students are transitioned into college through assistance with registration, financial aid, career planning, and ultimately into employment and/or baccalaureate programs.

PL 10 (4) BEGINNING COMMUNICATION WITH THE DEAF 5 Hrs. Lec.

An introduction to American sign language, designed to provide basic communication skill and increased awareness of the psychology of an individual with a severe hearing impairment. This course will include definitions of hearing loss, history of deaf education and problems of communication, as well as emphasizing vocabulary development, syntax, and idiomatic expressions used by the "typical" deaf adult. (CSU)

PL 11 (4) INTERMEDIATE COMMUNICATION WITH THE DEAF 5 Hrs. Lec.

Prerequisite: Completion of PL 10. Vocabulary enrichment and fingerspelling drill designed to increase speed, accuracy, and rhythm in expressive sign language and improved receptive ability. 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. (CSU)

PL 12 (3) ADVANCED COMMUNICATION WITH THE DEAF 3 Hrs. Lec.

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. (CSU)

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. (CSU)

PL 15A (4) COMMUNICATION SKILLS FOR PL STUDENT 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Need for basic instruction based on placement tests and individual interview. A course at the beginning level for the Physically Limited student needing basic instruction in comprehension, vocabulary, sentence structure, and study skills. Emphasis will be on word attack, word recognition, comprehension, contextual clues, parts of speech, basic sentence structure, vocabulary building, and study skills related to reading and writing communication.

PL 15B (4) COMMUNICATION SKILLS FOR THE PL STUDENT 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: Successful completion of PL 15A with reading test scores below level required for an appropriate reading or writing class. A course at the beginning level for the Physically Limited student needing basic instruction in comprehension, vocabulary, sentence structure, and study skills. Emphasis will be on word attack, word recognition, comprehension, contextual clues, parts of speech, basic sentence structure, vocabulary building, and study skills related to reading and writing communication.

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. (CSU)

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. (CSU)

PL 22ABCD (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 23ABCD (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 24ABCD (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 25ABCD (3-3-3-3) PSYCHOLOGICAL AND SOCIAL ISSUES

3 Hrs. Lec.

This course is designed to assist physically limited and learning disabled students with psychological and social issues in their lives. The instructor will lecture about these psychological and social concepts and will lead the class in the discussion of these concepts and the varied ways of successfully coping with them in their lives.

PL 26ABCD (1-1-1) RHYTHMIC CONCEPTS AND EXPERIENCES FOR THE VISUALLY HANDICAPPED 2 Hrs. Lab.

A course to provide experience with rhythmic skills, elements, basic structure, and style. Application of skills involving sensitivity to rhythm and rhythmic movement with individual and group participation. The course is designed for the visually handicapped.

PL 27ABCD (2-2-2-2) CURRENT ISSUES 2 Hrs. Lec.

This course develops a set of skills that will improve the ability to comprehend, analyze and apply conversational techniques to current issues.

PL 28ABCD (2-2-2-2) ARTISTIC EXPERIENCE 4 Hrs. Lec.

This course is designed to enrich the aesthetic experience of physically limited students. Students will explore various medias and methods in the fine arts.

PL 30 (3) INTRODUCTION TO SPEECH AND LANGUAGE 3 Hrs. Lec.

This course is designed to acquaint students with the normal speech and language developmental sequence, and introduce them to deviations from normal patterns. Etiology, characteristics and prognosis for various speech and language disorders will be explored. (CSU)

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. (CSU)

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 students to principles of behavior modification as used in speech and hearing pathology, to enable them to isolate modifiable behavior, and to successfully modify simple behavior patterns. (CSU)

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. (CSU)

PL 34 (3) AUDIOMETRY AND HEARING CONSERVATION 3 Hrs. Lec. 1 Hr. Lab.

Prerequisite: PL 33 recommended. This course includes identification audiometry, preschool hearing screening, industrial audiometry, and the role of the audiometrist, nurse-audiometrist and speechhearing therapist in the total conservation of hearing program. (CSU)

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. (CSU)

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. (CSU)

PL 50 (3) SHOP MATHEMATICS 3 Hrs. Lec

(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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

PHYS 4C (4) PRINCIPLES OF PHYSICS 3 Hrs. Lec. 4 Hrs. Lab.

Prerequisites: 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 area of heat, wave motion, sound, light, and modern physics. (CSU) (UC credit limited. See a counselor.)

PHYSIOLOGY

PHYSIO 1 (4) HUMAN PHYSIOLOGY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisites: One year each of high school chemistry and biology or one semester each at the college level or a current California LVN license. The functions of the human body; emphasis on the circulatory, muscular, and nervous systems. (CSU, UC)

POLITICAL SCIENCE

POLY SCI 1 (3) INTRODUCTION TO POLITICAL SCIENCE

3 Hrs. Lec. Y 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 17A will meet graduation requirements in American Institutions. (CSU, UC)

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 17B will meet graduation requirements in American Institutions. May be taken before Poly Sci 1. (CSU, UC)

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. (CSU, UC)

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 con- | PSYCH 5 (3) temporary 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. (CSU, UC)

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. (CSU, UC)

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 the principles of perception (including the physiological basis for perception and interpersonal perception). (CSU, UC)

PSYCH 2 (3) INTRODUCTION TO PHYSIOLOGICAL PSYCHOLOGY

3 Hrs. Lec.

Prerequisite: Psych 1A preferred. An introduction to the function of experimental methodology in the investigation of physiological processes in psychology. Emphasis is placed upon those physiological mechanisms which provide a basis for perception, learning, motivation, and other complex patterns of behavior. (CSU, UC)

PSYCHOLOGY OF PERSONAL AND SOCIAL ADJUSTMENT

3 Hrs. Lec.

A study of development of the normal personality, focusing on common difficulties of social and emotional adjustment. Various views of personality structure and approaches to personal growth are discussed. (Same as TA 3) (CSU, UC)

PSYCH 4 (3) PSYCHOLOGY OF HUMAN SEXUALITY

3 Hrs. Lec. An objective exploration of the various issues pertaining to human sexual behavior from the perspective of the behavioral and social sciences. (CSU, UC)

PSYCHOLOGY OF EFFECTIVE **BEHAVIOR**

3 Hrs. Lec. A survey of some of the relevant psychological facts, principles, and concepts involved in the experience and problems of everyday living. An experiential approach, including emphasis upon effective behavioral alternatives in parenting, interpersonal relations, values clarification as well as proven methods of successful study. (CSU)

PSYCH 7 (.5) PSYCHOLOGY LEARNING LAB 1 Hr. Lab.

Prerequisite: Current enrollment in Psychology 1A. This class is designed as a learning aid for students taking Psychology 1A. The class will review general concepts from Psychology 1A, and offer strategies for improving study techniques.

PSYCH 8 (3) PERSONAL AND CAREER DEVELOPMENT

3 Hrs. Lec. (Same as HR 8) (CSU)

PSYCH 8A (1) PERSONAL AND CAREER DEVELOPMENT 1 Hr. Lec. (Same as HR 8A) (CSU)

PSYCH 8B (1) PERSONAL AND CAREER DEVELOPMENT 1 Hr. Lec. (Same as HR 8B) (CSU)

PSYCH 8C (1) PERSONAL AND CAREER DEVELOPMENT

1 Hr. Lec. (Same as HR 8C) (CSU)

PSYCH 9 (3) INTERVIEWING AND COUNSELING 3 Hrs. Lec. (Same as ADS 9/HR 9) (CSU)

PSYCH 10 (3) SMALL GROUP LEADERSHIP

3 Hrs. Lec. (Same as HR 10) (CSU)

PSYCH 11AB (3-3) PRACTICUM 1 Hr. Lec. 6 Hrs. Lab. field experience per week (Same as ADS 11AB/HR 11AB) (CSU)

PSYCH 12 (3) ELEMENTARY STATISTICS 3 Hrs. Lec.

Prerequisite: Math A or equivalent. (Same as Bus 26/Math 12) (CSU, UC)

PSYCH 14 (3) ABNORMAL PSYCHOLOGY 3 Hrs. Lec.

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, psychoneuroses, organic and functional psychoses are included. (CSU, UC)

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 ADS 15/Sociol 15) (CSU, UC)

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, selfdisclosure, fair fighting techniques, sex roles, personal perception, and transactional analysis. Lecture-discussion-experiential. (Same as HR 16) (CSU)

PSYCH 16A (1) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 1 Hr. Lec.

An investigation of the dynamics of interpersonal relationships. Starting, developing, understanding, and improving relationships with others will be the focus of this course. Topics will include love, communication skills, and self-disclosure. Lecture-discussion-experiential. This course, together with Psych/HR 16B and Psych/HR 16C is equivalent to Psych/HR 16. Not open to students who have completed Psych/HR 16. (Same as HR 16A) (CSU)

PSYCH 16B (1) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 1 Hr. Lec.

An investigation of the dynamics of interpersonal relationships. Starting, developing, understanding, and improving relationships with others will be the focus of this course. Topics will include learning to fight fair, learning how to be direct in personal communications, sex roles, and assertive communication with other people. Lecturediscussion-experiential. This course, together with Psych/HR 16A and Psych/HR 16C is equivalent to Psych/HR 16. Not open to students who have completed Psych/HR 16. (Same as HR 16B) (CSU)

PSYCH 16C (1) THE PSYCHOLOGY OF INTERPERSONAL RELATIONSHIPS 1 Hr. Lec.

An investigation of the dynamics of interpersonal relationships. Understanding and improving relationships with others will be the focus of this course. Topics will include types of relationships, working through crises, and learning how to grow within the context of a relationship. Lecture-discussion-experiential. This course, together with Psych/HR 16A and Psych/HR 16B is equivalent to Psych/HR 16. Not open to students who have completed Psych/HR 16. (Same as HR 16C) (CSU)

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) (CSU, UC)

PSYCH 18 (1) RESEARCH IN PSYCHOLOGY

1 Hr. Lec.

Prerequisite: Psych 1A. An introduction to the scientific method of research used in psychology. The class will work together in surveying bibliographical sources, setting up a research paradigm, conducting a class experiment, analyzing and interpreting the psychological data. (CSU)

PSYCH 19 (3) THE PSYCHOLOGY OF LOSS 3 Hrs. Lec.

The grief process will be explored as well as how one can help a person resolve a personal loss, whether it be by divorce, death, separation, the aging process, illness, retirement, changing neighborhoods, or by loss of

financial security. Why some forms of grief in ourselves and others go unresolved will be explained and discussed. In addition, techniques for giving emotional support and for creating life as a challenge rather than a threat will be covered. Alternative models of caring for the terminally ill patient will be presented as well as the concept of "conscious living-conscious dying." (Same as Geron 19) (CSU)

PSYCH 20 (3) DEVELOPMENTAL PSYCHOLOGY OF CHILDREN

3 Hrs. Lec. (Same as ECE 20) (CSU) (UC credit limited. See a counselor.)

PSYCH 21 (3) EARLY CHILDHOOD SOCIALIZATION: CHILDREN. **FAMILY AND COMMUNITY** 3 Hrs. Lec. (Same as ECE 21) (CSU)

PSYCH 22 (3) PRINCIPLES OF CHILD **DEVELOPMENT & OBSERVATION** 3 Hrs. Lec. (Same as ECE 22) (CSU)

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

PSYCH 27 (3) UNDERSTANDING EXCEPTIONAL STUDENTS 2 Hrs. Lec. 2 Hrs. Lab. (Same as ECE 27/PL 1) (CSU)

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. (CSU) (UC credit limited. See a counselor.)

PSYCH 30A (1) PSYCHOLOGY OF ADOLESCENCE 1 Hr. Lec.

Section A: Psychological Development. An introduction to the processes of personality and relationship development, with emphasis on peers, authority figures, and the problem areas of communication difficulties, juvenile delinquency, drug use and abuse, depression, and suicide. This course, together with Psych 30B and Psych 30C is equivalent to Psych 30. Not open to students who have completed Psych 30. (CSU) (UC credit limited. See a counselor.)

PSYCH 30B (1) PSYCHOLOGY OF ADOLESCENCE 1 Hr. Lec.

Section B: Cognitive and moral development. An in-depth study of the intellectual potential of adolescents, including creative problem solving, social cognition, impression formation, role-taking, and the interaction between abstract thinking and moral development. This course, together with Psych 30A and Psych 30C is equivalent to Psych 30. Not open to students who have completed Psych 30. (CSU) (UC credit limited. See a counselor.)

PSYCH 30C (1) PSYCHOLOGY OF ADOLESCENCE 1 Hr. Lec.

Section C: Physical Maturation. A description of the development of primary and secondary sexual characteristics, the role of hormones and genetic factors on development, the psychological implications of early and late development, and factors affecting sexual attitudes and behavior. This course, together with Psych 30A and Psych 30B is equivalent to Psych 30. Not open to students who have completed Psych 30. (CSU) (UC credit limited. See a counselor.)

PSYCH 35 (3) DEVELOPMENTAL PSYCHOLOGY: CONCEPTION TO DEATH 3 Hrs. Lec.

Prerequisites: None (Psych 1A recommended). A study of the 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 human development. (CSU) (UC credit limited. See a counselor.)

PSYCH 40 (3) PSYCHOLOGY OF CRISIS COUNSELING

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. (CSU, UC)

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 Adm Jus 46) (CSU)

PSYCH 53 (3) GROUP LEADERSHIP AND GROUP PROCESS

3 Hrs. Lec. (Same as ADS 53) (CSU)

PSYCH 55 (3) CRISIS INTERVENTION AND REFERRAL TECHNIQUES 3 Hrs. Lec. (Same as ADS 55) (CSU)

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. (CSU) (UC credit limited. See a counselor.)

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. (CSU) (UC credit limited. See a counselor.)

REC 72 (3) OUTDOOR RECREATION 2 Hrs. Lec. 3 Hrs. Lab.

History, development, principles and trends of organized camping, nature and conservation, and outdoor recreation. Laboratory and field trips, including camping and hiking activities. Practical skills in firecrafts, outdoor cooking and backpacking. Leadership training in camp counseling. Required for recreation majors. (Will not satisfy PE requirement.) (CSU) (UC credit limited. See a counselor.)

REC 73 (4) RECREATION FOR SPECIAL **GROUPS**

2 Hrs. Lec. 4 Hrs. Lab.

Field work in therapeutic recreation in the community. The special groups emphasis area is dedicated to understanding and serving individuals and groups in our society who exhibit special recreational needs. Students must plan for two additional hours by arrangement. (CSU) (UC credit limited. See a counselor.)

REC 74 (3) INTRODUCTION TO COMMUNITY RECREATION

3 Hrs. Lec. For recreation majors and non-majors, a general orientation to the field of recreation and parks, including a history of the development of the recreation profession, a survey of recreation and leisure services, description and interpretation of recreation as a form of community service and the nature and scope and 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. (CSU) (UC credit limited. See a counselor.)

SOCIAL SCIENCE

SOC SCI 52 (3) INTRODUCTION TO AMERICAN GOVERNMENT 3 Hrs. Lec.

An introduction to the foundations and major characteristics of the governments of the United States and California, stressing the political habits of the American people within an historical setting. This course will meet the graduation requirement in American Institutions at Imperial Valley College, but is offered to students who do not intend to transfer to senior institutions. Not open to students with credit in Hist 17AB or Poly Sci 1, 2.

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. (CSU, UC)

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. (CSU, UC)

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 an historical analysis of the problems of these groups and typical areas will include racism, sexism, agism, and ethnic and religious discrimination. (Same as ADS 10) (CSU, UC)

SOCIOL 15 (3) SOCIAL AND PSYCHOLOGICAL DYNAMICS OF DRUG USE 3 Hrs. Lec. (Same as ADS 15/Psych 15) (CSU, UC)

SOCIOL 17 (3) SOCIAL PSYCHOLOGY 3 Hrs. Lec. (Same as Psych 17) (CSU, UC)

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. (CSU, UC)

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 relationships 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 Adm Jus 41) (CSU)

SOCIOL 50 (3) **HUMAN SERVICES IN A** CHANGING SOCIETY 3 Hrs. Lec. (Same as ADS 50) (CSU)

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 advanced 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. (CSU, UC)

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 onehalf 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. (CSU) (UC credit limited. See a counselor.)

SPAN 1B (2) **ELEMENTARY SPANISH** 2 Hrs. Lec. 1/2 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. (CSU) (UC credit limited. See a counselor.)

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, and present perfect forms for both regular and irregular verbs. (CSU, UC)

SPAN 2A (2) **ELEMENTARY SPANISH** 2 Hrs. Lec. 1/2 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. (CSU) (UC credit limited. See a counselor.)

SPAN 2B (2) ELEMENTARY SPANISH 2 Hrs. Lec. 1/2 Hr. Lab.

Prerequisite: 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. (CSU) (UC credit limited. See a counselor.)

SPAN 3 (4) INTERMEDIATE SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: 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. (CSU, UC)

SPAN 4 (4) INTERMEDIATE SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisite: The student must be able to speak and read English. The student can be successful in Span 4 only after having achieved all of 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. (CSU, UC)

SPAN 5A (2) BEGINNING CONVERSATIONAL SPANISH AND CULTURE

2 Hrs. Lec. .5 Hr. Lab. A course designed to give the student a basic ability in everyday Spanish. The course will emphasize vocabulary-building, conversational skills, listening and comprehension, and culture. (CSU)

SPAN 5B (2) BEGINNING CONVERSATIONAL SPANISH AND CULTURE

2 Hrs. Lec. .5 Hr. Lab. Prerequisite: Span 5A or by examination. Concurrent enrollment in Span 2 is recommended. A continuation of Span 5A. (CSU)

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. (CSU)

INTERMEDIATE CONVERSA-TIONAL 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. (CSU, UC)

ADVANCED CONVERSATIONAL SPANISH

3 Hrs. Lec.

Prerequisite: Span 3 or 10. Continuation of Span 10. (CSU, UC)

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 America, and the Spanish speaking communities in the United States - Mexcian, Cuban, Puerto Rican, and Sephardic. (CSU) (UC credit limited. See a counselor.)

SPAN 20B (4) BILINGUAL SPANISH

4 Hrs. Lec. 1 Hr. Lab. Prerequisites: Span 20A or four years of high school Spanish. Continuation of Span 20A. Emphasis on the conditional and the

subjunctive forms. (CSU) (UC credit limited. See a counselor.)

SPAN 21 (4) INTERMEDIATE BILINGUAL SPANISH

4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 20B or four years of high school Spanish. Designed to develop in the bilingual student, language proficiency with special attention to the usage of the various styles - formal, regional, and colloquial. Emphasis on writing skills, punctuation, and grammar review. (CSU) (UC credit limited. See a counselor.)

SPAN 22 (4) ADVANCED BILINGUAL SPANISH 4 Hrs. Lec. 1 Hr. Lab.

Prerequisites: Span 21 or four years of high school Spanish. Continuation of Span 21. Emphasis will be placed upon advanced grammar review of the conditional and the subjunctive forms, vocabulary building, translating, oral and written composition. (CSU) (UC credit limited. See a counselor.)

SPAN 23 (3) BILINGUAL ORAL SPANISH 3 Hrs. Lec.

Prerequisite: Previous study of Spanish grammar, the equivalent of three years of high school Spanish. Native or near native fluency. An intensive course in oral Spanish for students who have learned Spanish as a native language. It is intended for students who may read well and have good grammar but need more practice in oral structures. This course will include a brief grammar review and discussion of relevant everyday topics of social concern. Concurrent enrollment in Span 20B is recommended, but not required. (CSU) (UC credit limited. See a counselor.)

SPAN 24 (3) INTRODUCTION TO SPANISH LITERATURE

3 Hrs. Lec.

Prerequisites: Span 22 or 4 years of high school Spanish or equivalent. Introductory survey of representative movements, authors, and works of Spanish literature

from the Middle Ages to the present. Concurrent enrollment in Span 40/Hist 40 is recommended. Course conducted in Spanish. (CSU, UC)

SPAN 25 (3) INTRODUCTION TO SPANISH AMERICAN LITERATURE

3 Hrs. Lec. Prerequisites: Span 22 or 4 years of high school Spanish or equivalent. Introductory survey of representative movements, authors, and works of Spanish American literature from the Spanish Discovery to the present. Concurrent enrollment in Span 41 is recommended. Course conducted in Spanish. (CSU, UC)

SPAN 26 (3) INTRODUCTION TO TRANSLATION AND INTERPRETATION 2 Hrs. Lec. 2 Hrs. Lab.

Prerequisite: Near native fluency in Spanish and English. This course is designed to give students an introduction to theory and practice in translating and interpreting. There will be intensive vocabulary building and ear training exercises; extensive and intensive reading on current events; cross cultural training and research on career possibilities in these areas. (CSU)

SPAN 28A (3) THE MEXICAN AMERICAN IN LITERATURE

3 Hrs. Lec. (Same as Eng 46A) (CSU, UC)

SPAN 28B (3) THE MEXICAN AMERICAN IN LITERATURE

3 Hrs. Lec. (Same as Eng 46B) (CSU, UC)

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) (CSU, UC)

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) (CSU, UC)

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. (CSU, UC)

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. (CSU, UC)

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 60ABC (1-1-1) LANGUAGE LABORATORY 2 Hrs. Lab.

Prerequisite: Current enrollment in Spanish. Individualized language laboratory practice with prepared taped materials and texts in the language laboratory. Practice in listening comprehension and pronunciation. Supplementary course for beginning, intermediate, and advanced levels in Span-

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.

SPECIAL STUDIES **NON CREDIT**

SPECIAL STUDIES 58 SUPERVISED TUTORING

An individualized course of study in any discipline using materials available in the Learning Center; 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. (CSU) (UC credit limited. See a counselor.)

SP 2AB (3-3) 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. (CSU) (UC credit limited. See a counselor.)

SP 10 (3) ARGUMENTATION AND DEBATE 3 Hrs. Lec.

Prerequisite: Sp 1, taken previously or concurrently. An introduction to the problems

71

of evidence and inference, with emphasis on the application of logic to rational discussion of social problems. (CSU, UC)

SP 11 (3) ORAL INTERPRETATION -READERS THEATRE 3 Hrs. Lec.

Discovering and imparting, vocally, intelligent and emotional meanings of the printed page. (CSU, UC)

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. (CSU,

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. (CSU)

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 degreecertificate 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. (CSU)

70

TA 3 (3) PSYCHOLOGY OF PERSONAL AND SOCIAL ADJUSTMENT

3 Hrs. Lec. (Same as Psych 3) (CSU)

TA 4 (3) **BILINGUAL-MULTICULTURAL CURRICULUM AND INSTRUCTION**

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 bilingualmulticultural 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) (CSU)

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 coriducive to oral language development, puppetry, drama, and poetry. Students will learn to develop learning centers related to language development. (Same as ECE 6) (CSU)

TA 8 (3) MATHEMATICS FOR YOUNG **CHILDREN**

3 Hrs. Lec.

Prerequisite: TA 1. An understanding of how mathematics and number concepts develop in children. An experimental approach to mathematics through math applied in the real world. Aspects of Montessori materials and math games in teaching math. Understanding of elementary concepts of the real number system, numeration systems, mathematical sets, philosophy of modern mathematics. Emphasis on providing most effective techniques for instruction of young children. (Same as ECE 8) (CSU)

TA 9 (3) FIELD EXPERIENCE 1 Hr. Lec. 10 Hrs. Lab.

Supervised field work with young children. Provides practical opportunities to apply knowledge, methods, and skills in a school setting. Seminars cover experiences, discussion of common problems, exchange of ideas, techniques and materials. Students may do their student teaching at the school where they are employed. (CSU)

TA 24 (3) **CREATIVE LEARNING EXPERIENCES FOR YOUNG CHILDREN** 3 Hrs. Lec.

(Same as ECE 24, Psych 24) (CSU)

WATER TREATMENT **TECHNOLOGY**

WT 1 (4) WATER TREATMENT PLANT **OPERATOR I** 3 Hrs. Lec. 3 Hrs. Lab.

Prerequisite: Math 51 or satisfactory score on math placement test. This course will provide information needed to operate a basic fresh-water treatment plant as efficiently as possible. Course will consist of start-up operation, daily operation, interpretation of laboratory results, and possible approaches to solving operational problems. (CSU)

WT 2 (4) WATER TREATMENT PLANT OPERATOR II

3 Hrs. Lec. 3 Hrs. Lab. Prerequisite: WT 1. Study of fresh-water maintenance, safety, sampling, laboratory procedures, hydraulics, records, analysis, and presentation. (CSU)

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. (CSU)

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. (CSU)

WT 9 (4) WASTE WATER TREATMENT I 4 Hrs. Lec.

Prerequisite: WT 6. This course is designed to train operators in the effective operation of waste water treatment plants. Course will consist of the fundamentals of waste water treatment, start-up operation, daily operation, interpretation of laboratory results. and process control. (CSU)

WT 10 (4) WASTE WATER TREATMENT II 4 Hrs. Lec.

Prerequisite: WT 9. Course will consist of waste water maintenance, plant safety. sampling, laboratory procedures, hydraulics, records, process control - activated sludge, sludge digestion, solids handling, and possible approaches to solving operational problems. (CSU)

WT 11 (4) WASTE WATER TREATMENT III 4 Hrs. Lec.

Prerequisite: WT 10. Course consists of odor control measures, operational control alternatives, in-depth study of solids handling and disposal, waste water reclamation. instrumentation, industrial waste treatment and monitoring. (CSU)

WELDING TECHNOLOGY

Enrollment in welding courses requiring a prerequisite is not allowed unless the prerequisite welding class is passed with a "C" grade or better.

WELD 31 (5) BASIC WELDING 3 Hrs. Lec. 6 Hrs. Lab.

A complete basic study of welding technology. The student practices techniques for skill development in shielded metal arc welding, gas tungsten arc welding, and oxyacetylene welding processes. (CSU)

WELD 31A (2) **OXY-ACETYLENE WELDING** 1 Hr. Lec. 2 Hrs. Lab.

Theory, practice and application of joining metals by the oxy-acetylene process, includes metal cladding, cutting and bronze welding. This course, together with Weld 31B, is equivalent to Weld 31. Not open to students who have completed Weld 31. (CSU)

WELD 31B (3) ARC WELDING 2 Hrs. Lec. 3 Hrs. Lab.

A beginning study of arc welding for the technology oriented student. The course consists of theory, practice and application of arc welding processes. Electrode selection and applications in different joint de signs will be covered. This course, together with Weld 31A, is equivalent to Weld 31. Not open to students who have completed Weld 31. (CSU)

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. (CSU)

WELD 36A (5) ADVANCED WELDING 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Weld 31 or permission of the instructor. A concentrated course in shielded metal arc welding. The student develops his/her welding skill to a professional entry level. Includes a review of oxy-acetylene cutting and safety. (CSU)

WELD 36B (5) ADVANCED WELDING 3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Weld 36A or permission of the instructor. Emphasis is on skill development for shielded metal arc welding of pipe and heavy structural plate. Gas metal arc welding process is included to further enhance the welder's abilities. Advanced processes for shielded metal arc welding, gas metal arc welding, and oxy-acetylene welding are presented in all phases of the class. (CSU)

WELD 36C (5) ADVANCED WELDING - WELDER CERTIFICATION AND BLUEPRINT READING

3 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Completion of Weld 36B or permission of the instructor. Emphasis is on welding operator qualification testing. This course is for the experienced welder and for the student completing the final phase of the Welding Technology Program. A detailed study of blueprint reading is included to further develop the welder's abilities. (CSU)

WELD 38 (2) SHEET METAL FUNDAMENTALS 1 Hr. Lec. 2 Hrs. Lab.

Theory and practice in the fundamentals of planning, layout, pattern development and fabrication of flat sheet metal into useful products. (CSU)

WELD 50 (3) SHOP MATHEMATICS 3 Hrs. Lec.

(Same as Ag 50, Auto Tech 50, Math 50 and

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

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. (CSU)

WE GEN 71 (3) **MOTIVATION** 1 Hr. Lec. 10 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 may be in any occupation but must have educational value for the student. (CSU)

WE GEN 72 (3) LABOR AND THE ECONOMY 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. (CSU)

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. (CSU)

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 fie the student's planned course of occ tional training. (CSU)

WE OCC 81 (4) MOTIVATION 1 Hr. Lec. 15 Hrs. Lab.

Motivation is studied from the employe and employer's perspective. Personal le ership development and improvement emphasized. Laboratory work will be ranged with the employer. The work m be in the field of the student's planr course of occupational training. (CSU)

WE OCC 82 (4) LABOR AND THE ECONOMY 1 Hr. Lec. 15 Hrs. Lab.

Labor and management relationships discussed. The effect of government labor and the economy is emphasize Employee procurement, collective barga ing, and the labor movement is part of t instruction. Laboratory work will be ranged with the employer. The work mu be in the field of the student's plann course of occupational training. (CSU)

WE OCC 83 (4) LAWS AFFECTING EMPLOYEES 1 Hr. Lec. 15 Hrs. Lab.

Labor laws that affect the welfare and secu ity of employees are emphasized. Industr welfare, unemployment insurance, wor man's compensation, social security, as taxes are among laws discussed. Labor tory work will be arranged with the emplo er. The work must be in the field of the st dent's planned course of occupational trai ing. (CSU)

ZOOLOGY

ZOOL 1A (4) GENERAL ZOOLOGY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Any year course in a hig school laboratory science or the equivalen Introduction to basic principles of anim biology with reference to structure, funtions, classification, heredity, and the env ronment of animals in general and of invert brates in particular. (CSU, UC)

ZOOL 1B (4) GENERAL ZOOLOGY 2 Hrs. Lec. 6 Hrs. Lab.

Prerequisite: Zool 1A. Continuation (Zool 1A with emphasis upon comparativ anatomy and physiology, development c vertebrate forms and their interrelation ships. (CSU, UC)

ZOOL 10 (3) LIFE OF THE PAST: AN INTRODUCTION TO PALEONTOLOGY 3 Hrs. Lec. (Same as Geol 10) (CSU, UC)

Anthro 6

Anthro 7

Anthro 8

Anthro 16

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:

- 1. 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.
- 3. 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/her own program.

Students may satisfy the major requirements in the following fields of study:

ADMINISTRATION OF JUSTICE

Twenty-one units required for the major I. Required courses for the major

		and the state of t	
	Adm Jus 21	Introduction to the Administration	
	roff. Ty	of Justice (3)	
	Adm Jus 33	Concepts of Criminal Law(3)	
	Adm Jus 35	Legal Aspects of Evidence(3)	
	Adm Jus 36	Principles and Procedures of	
		the Justice System (3)	
	Adm Jus 38	Community Relations (3)	
II.	Acceptable courses for the major (6 units from the following		
	courses)		
	Adm Jus 22	Police Patrol Procedures (3)	
	Adm Jus 24	Traffic Control and Vehicle Code (3)	
	Adm Jus 26	Traffic Accident Investigation (3)	
	Adm Jus 29	Preliminary Investigation and	
	A.1 .1 .04	Reporting(3)	
	Adm Jus 34	Criminal Investigation (3)	
	Adm Jus 37	Juvenile Control(3)	
	Adm Jus 39	Arrest and Firearms (3)	
	Any Sp Studie	s in the Administration of Justice Area . (3)	
Ш.	Recommended	d as electives (do not fulfill major requirements)	
	Adm Jus 23	Defensive Tactics(1)	
	Adm Jus 40	Advanced Officers Course (1)	
	Adm Jus 41	Mass Sociology and Collective Behavior	
	Adm Jus 42	Nonlethal Chemical Agents (½)	
	Adm Jus 43	Reserve Officers Class Level II (3)	
	Adm Jus 44	Reserve Officers Class Level I (6)	
	Adm Jus 47	Field Training Officers , (1)	
	Adm Jus 48	Advanced Criminal Law(3)	
		i mavailled Citibilat Law	

AGRICULTURAL BUSINESS

Twenty-four units required for the major

	Ag 14	Entomology (3)
	Ag 25	Agricultural Business Management (3)
	Ag 27	Agriculture Sales and Service Management(3)
	Ag 40	Soils
	Ag 41	Fertilizers
	Ag 49	Weeds and Weed Control (3)
II.	Acceptable courses for the major (6 units from the followi	

courses)

Ag 26	Agricultural Business Organization
	and Management (3)
Ag 45	Vegetable Production (3)
Bus 4	Principles of Marketing(3)
Bus 5A	Business Law
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)
AND THE PROPERTY OF THE PARTY O	

AGRICULTURAL CHEMICAL TECHNOLOGY

Twenty-two units required for the major

I. Required courses for the major

Ag 49

Ag 14	Entomology	(3)
Ag 28	Heavy Equipment Operation	
15.	and Maintenance	(5)
Aq 40	Soils	(3)
Aa 41	Fortilizars	12)

II. Acceptable courses for the major (5 units from the following

Weeds and Weed Control (3)

courses)	
Aq 32	Irrigation and Drainage(3)
Ag 33A	Farm Power
Ag 37	Small Gasoline Engines (3)
Aq 45	Vegetable Production (3)
Ag 65	Control of Insects & Other Pests (3)
Bot 1A	General Botany (4)
Chem 2A	Introduction to Chemistry (4)
Eng 55	Technical and Report Writing (3)
WE Occ 80	Personal Efficiency(4)
WE Occ 81	Motivation (4)
WE Occ 82	Labor and the Economy (4)
WE Occ 83	Laws Affecting Employees (4)
Weld 31 OR	Basic Welding
Weld 31A &	Oxy-Acetylene Welding
Weld 31B	Arc Welding (2 & 3)
	-

AGRICULTURAL MECHANICS

Twenty-two units required for the major

I. Required courses for the major

Ag 28	Heavy Equipment Operation	-\
	and Maintenance (2)
Ag 33A	Farm Power	5)
Weld 31 OR	Basic Welding	5)
Weld 31A &	Oxy-Acetylene Welding	
Weld 31B	Arc Welding (2 & 3	3)

-		
H.	Acceptable courses)	courses for the major (6 units from the following
	Ag 33B Ag 35 Ag 36	Farm Power (5) Fluid Power (4) Agricultural Construction (3) Small Gasoling Facilities (3)
, A	Ag 37 Ag 38 Ag 50 WE Occ 80 WE Occ 81	Electricity on the Farm (3 Shop Mathematics (3 Personal Efficiency (4
V	VE Occ 82 VE Occ 83	Labor and the E
		OHOL AND DRUG STUDIES
Twenty	/-seven uni	ts required for the major
I. Re	equired cou	urses for the major
AI	DS 9/	State of the state
AI Ps	ych 9/HR 9 DS 11A/ ych I1A/	9 Interviewing and Counseling (3)
HF	R 11A DS 15/	Practicum
So	ciol 15	Social & Psychological Dynamics of
ΔΓ	S 50/	Drug Use(3)
	ciol 50	Human Services in a Changing
AD	S 51	Alcoholism: Intervention Treatment (3)
AD	S 52	and Recovery
Min	imum of 6	units from any two of the following courses
AD:	S 53/	and from any two of the following courses
Psyc	ch 53	Group Leadership & Group Process . (3)
ADS ADS	5 54 5 55/	Family Counseling Approach to Alcohol and Drug Abuse (3)
	h 55	Crisis Intervention and Referral
ADS		Techniques
ADS	num of 3 ນ 10/	inits from any of the following
Socio	ol 10 57ABCD	Sociology of Minority Groups (3) Current Issues in Substance Abuse (1-3, 1-3, 1-3)
II. Recor	mmended (Courses (do not fulfill major requirements)
Psych	1 3	Psychology of Personal and Social
Psych Psych	16/	Psychology of Human Sexuality (3)
HR 16		Psychology of Interpersonal Relationships
Psych Psych	35	Relationships
Sociol	33 N	to Death
		NIMAL SCIENCE
Twenty-two		ired for the major
I. Require	ed courses	for the major
Ag 20 Ag 21	A	nimal Science(3) eeds and Feeding(3)
		75

AJORS	
Ag 22 Ag 23 Ag 24	Livestock Selection
II. Acceptable courses)	le courses for the major (7 units from the following
Ag 14 Ag 28 Ag 33A Ag 42 Chem 2A WE Occ 8 Weld 31 A Weld 31B	1 Motivation
Twenty-seven un	its required for the major
 Required cor 	urses for the major
Anthro 1 Anthro 2 Anthro 3A Anthro 3B Anthro 4 Geog 1	Physical Anthropology (3) Cultural Anthropology (3) Intro. to Arch. Site Surveying (3) Intro. to Arch. Excavations (3) California Indians (3) Physical Geography (3)
 Acceptable of required from 	courses for the major (minimum of 9 units in the following courses)
Anthro 3C Anthro 3D Anthro 5	Advanced Arch. Survey

ART

and Laboratory (3)

Indians of North America(3)

Indians of the Southwest(3) Prehistoric Ceramics (3)

Classic Civilizations of Pre-Historic Meso America(3)

Twenty-four units required for the major

I. Required courses for the major Art 22A

	Design
Art 22B	Design(3)
*Art 20A	Design
13.4: .	Drawing (3)
(Minimum d	of 6 units from the following courses)
Art 3A	History & Annualistic
Art 3B	History & Appreciation of Art (3)
Art 4	History & Appreciation of Art (3) History & Appreciation of
	Modern Art

II. Acceptable courses for the major (9 units from the following areas). These are suggested "clusters" of courses. Students may also take courses from any of the suggested groups.

Painting

Art 18A Art 18B	Watercolor Painting
Art 20B	Watercolor Painting (3 Drawing
Art 21A	
Art 21B	
Art 25A	Painting
Art 25B	Life Drawing

Art 23A	Ceramics
Art 23B	Ceramics
Art 23C	Ceramics
Art 24AB	Ceramic Sculpture(3-3
Art 28	Technical Ceramics

of Art 20B, Art 21AB, and Art 25AB.

AUTOMOTIVE BODY REPAIR AND PAINTING

Twenty-four to 27 units required for the major

I. Required courses for the major

Auto Body 70	Auto Body Repairing & Painting	(5)
Auto Body 71	Advanced Auto Body Repairing	
	and Painting	(5)
Auto Body 72	Auto and Light Truck Major	
	Collision Repairing	(5)

Auto Body 72	Auto and Light Truck Ma	ajor
	Collision Repairing	(5)
Auto Tech 50	Shop Mathematics (if req	uired) (3)
Auto Tech 53	Brakes and Suspension .	(3)
Weld 31 OR	Basic Welding	(5)
Weld 31A &	Oxy-Acetylene Welding	8 751
Weld 31B	Arc Welding	(2 & 3)

11.	Acceptable courses for the major (five units from the follow-
	ing list may be accepted as major credit if the equivalent of
	Auto Body 70 has been completed in high school (two years
	of high school auto body).

Auto Tech 51	"Engine Technology, or equivalent	(5)
Auto Tech 54	Electrical and Fuel Systems	(3)
Auto Tech 58	Automotive Air-Conditioning	(3)
WE	Cooperative Work Experience	(4)

AUTOMOTIVE TECHNOLOGY

Twenty-eight to 31 units required for the major

I. Required courses for the major

Auto Tech 50	Shop Mathematics(3)
Auto Tech 51	Engine Technology (5)
Auto Tech 53	Brakes and Suspension(5)
Auto Tech 54	Carburetors, Fuel & Exhaust Systems (3)
Auto Tech 55	Advanced Gasoline Engines (5)
Auto Tech 60	Electrical, Starting, Charging, Ignition
	and Related Electrical Systems (5)

II. Acceptable courses for the major (minimum of 5 unite from

the following)	urses for the major (minimum of 5 units from
Auto Tech 52	Manual Transmissions & Power Trains (3)
Auto Tech 56	Diagnostics
Auto Tech 57	Fluid Power
Auto Tech 58	Automotive Air-Conditioning (3)
Auto Tech 59	Small Gasoline Engines (3)
Auto Tech 61	Automatic Transmissions (5)
Auto Tech 63	Light Duty Diesel Engine Rebuilding (5)
Auto Tech 65	Basic Machine Shop Technology (3)
Auto Tech 66	Machine Shop Technology(3)
Weld 31	Basic Welding(5)

BANKING—ADMINISTRATIVE SERVICES

Twenty-three units required for the major

I.	Required courses for the major		
	Bus 1A	Principles of Accounting (4)
	Bus 1B	Principles of Accounting (4)
	Bus 6	Management Concepts of Supervision	()
	Bus 7	Human Relations in Management (3)
	Bus 60	Principles of Bank Operations (3	

II. Acceptable courses for the major (select a minimum of 6

Bus 5A	Business Law
Bus 42	Business Correspondence (3)
Econ 1	Principles of Economics (3)
Sp 1	Oral Communication(3)

BANKING—CREDIT ADMINISTRATION

Twenty-three units required for the major

I. Required courses for the major

Bus 1A	Principles of Accounting (4)
Bus 1B	Principles of Accounting(4)
Bus 60	Principles of Bank Operations (3)
Bus 61	Analysis of Financial Statements (3)
Bus 62	Installment Credit(3)

II. Acceptable courses for the major (select a minimum of 6

Business Law
Human Relations in Management (3)
Business Correspondence (3)
Financing Business Enterprises (3)
Agricultural Finance (3)
Principles of Economics (3)
Oral Communication(3)

BANKING-SECRETARIAL

Twenty-two to 28 units required for the major

I. Required courses for the major

Bus 5A	Business Law (3)
Bus 21ABC	Proficiency-Exit Typewriting* (2-2-2)
Bus 32AB	Dictation & Transcription Lab** (3-3)
Bus 40 OR	Grammar and Usage
Bus 41 OR	Essentials of Business Correspondence
Bus 42	Business Correspondence (2 or 3)
Bus 60	Principles of Bank Operations (3)

II. Acceptable courses for the major (6 units from the following courses)

Sp 1	Oral Communication(3)
Bus 7	
	Human Relations in Management (3)
Bus 23	Office Machines
Bus 39	Office Procedures
Bus 50	Introduction to Data Processing (3)

*Minimum skill level of 60 net words per minute required to qualify for major. If skill level attained in Bus 21A, student is excused from Bus 21B and Bus 21C.

**Minimum skill level of 90 words per minute required to qualify for major. If attained in Bus 32A, student is excused from Bus 32B.

***BANKING—GENERAL	OPERATIONS
--------------------	------------

Twenty-two to 25 units required for the major

I. Required courses for the major

DUS 5A	Business Law
Bus 10A	Business Law
Bus 21ABC	Proficience 5 (3)
Bus 23	1 IOICIEIICV-EXII 1 Unewriting* (2.0.0)
Bus 40	Office Machines (3)
Bus 60	Grammar and Usage
Acceptable co	ourses for the major (select any two courses)
C -	James Courses)

	(select any two courses)
Sp 1 Bus 7 Bus 39 Bus 41	Oral Communication
Bus 50	Essentials of Business Correspondence

*Minimum skill level 40 words per minute required to qualify for major. If skill level attained in Bus 21A, student is excused from Bus 21B and Bus 21C.

**Bus 1A will be substituted if student has completed one year of high school bookkeeping.

***Designed for bank tellers, file clerks, bookkeepers, etc. Not intended for secretarial staff members.

BEHAVIORAL SCIENCE

The requirement for a major in Behavioral Science may be satisfied by taking 18 units from the following list, concentrating in the following three groups of primary interest:

Physical Anthropology (3)

I. Required courses for the major

Anthropology

Anthro 1

Anthro 2	Cultural Anthropology (3)
Psychology	(3)
Psych 1A	General Psychology
Psych 1B	Advanced General Psychology (3)
Psych 2	Intro to Physicle in t P. (3)
Psych 3/TA 3	Intro. to Physiological Psychology (3)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Psychology of Personal and
Psych 4	Social Adjustment
Psych 9/HR 9	r sychology of Human Sovijaliti. (2)
	Interviewing and Counseling (3)
Psych/HR/	
ADS 11AB	Practicum
Psych 12/	
Bus 26/Math 12	Elementary Statistics
	Abnormal Psychology
Psych 16	The Psychology of Interpersonal (3)
	Relationships(3)
Psych 17/	3)
Sociol 17	Social Psychology
Psych/ECE 20	Social Psychology (3)
Psych/ECE 22	Develop. Psychology of Children (3)
7 - 7 - 0 - 22	Principles of Child Development
Psych 27/	and Observation(3)
ECE 27/PL 1	
Psych 30	Understanding Exceptional Students (3)
David of	r sychology of Adolescence (2)
Psych 35	Developmental Psychology:
	Comment

Conception to Death(3)

Psych 40

Psych 46/

Zool 1B

Adm Jus 46

Principles of Sociology (3) Contemporary Social Problems (3)
Social Psychology
as electives (do not fulfill major requirements)
Principles of Biological Science
Research in Psychology (1)
Early Childhood Socialization: Children Family & Community

Psych/ECE 26 Psychology of Parenthood (3)

The Mentally III, Alcoholic, Drug

Psychology of Crisis Counseling (3)

Addict and the Law (3)

General Zoology (4) Transfer students planning to major in these areas should take the IVC General Major and complete requirements listed in the catalog of the school to which they anticipate transferring.

BILINGUAL-BICULTURAL STUDIES

Eighteen to 21 units required for the major

I. Required courses for the major Fna 46AD/

Span 28AB Span 42	The Mexican American in Literature Intro. to Mexican American Studies	(3)
Required for	bilingual students only	(3)
Span 20A	Bilingual Spanish	20

Bilingual Spanish (4) Span 20B Bilingual Spanish (4) Intermediate Bilingual Spanish (4) Span 21 Bilingual Oral Spanish (3) Span 23

Required for monolingual students only Elementary Spanish (4) Span 1 Elementary Spanish (4) Span 2 Intermediate Spanish (4) Span 3

BOOKKEEPING

Twenty units required for the major

I. Required courses for the major Bus 10A

Practical Bookkeeping (3) Practical Bookkeeping (3) Bus 10B Proficiency-Exit Typewriting (2-2-2) Bus 21ABC (40 wpm skill level required) Office Machines (3) Bus 23 Bus 24 Records Management (3) Introduction to Data Processing..... (3) Bus 50

Acceptable courses for the major (select a minimum of 3 units)

Ag 25 Agriculture Business Management (3) Ag 26 Agriculture Business Organization and Management (3) Introduction to Business(3) Bus 2 Business Management(3) Bus 3 Principles of Marketing(3) Bus 4 Personal Finance (3) Bus 11 Applied Business Law(3) Bus 13

Office Procedures (3)

Bus 39

		WIAGOTT	_
III.	major). These	electives (do not fulfill requirements for the courses will assist students in gaining addice for the major.	
	WE Gen 70/ WE Occ 80	Personal Efficiency (3) (4)	
	WE Gen 71/ WE Occ 81	Motivation (3) (4)	т
	WE Gen 72/ WE Occ 82	Labor and the Economy (3) (4)	Tw I.
	WE Gen 73/ WE Occ 83	Laws Affecting Employees (3) (4)	
	В	USINESS SUPERVISION	
Τv		equired for the major	
1.	. Required cour	ses for the major	
	Bus 2 Bus 3 Bus 6 Bus 7 Bus 10A Bus 13 Bus 50	Introduction to Business	II
I	I. Recommende	ed electives (do not fulfill requirements for the e courses will assist students in gaining addience for the major.	
	WE Gen 70/ WE Occ 80 WE Gen 71/ WE Occ 81 WE Gen 72/ WE Occ 82 WE Gen 73/ WE Occ 83	Labor and the Economy (3) (4)	Τ
		BUSINESS—TRANSFER	
9	Twenty units req	uired for the major	
		urses for the major	
	Bus 1A Bus 1B Bus 5A Econ 1 Econ 2	Principles of Accounting	
	II. Acceptable units)	courses for the major (select a minimum of 3	
	Bus 2 Bus 5B Bus 9 Bus 23 Bus 26 Bus 42 Bus 50	Introduction to Business	
		CARPENTRY	
		its required for the major	
	I. Required o	courses for the major	
	Carp 1 Carp 2 Carp 3 Carp 4 Carp 5	The Apprenticeship & Math (3) Pre-job and Plot Planning (3) Rough Framing (3) Roof Framing (3) Interior and Exterior Finish (3) Stair Building (3))))

Carp 6

AJORS		
	Carp 7 Carp 8	Concrete and Forms
ě	c	INEMATOGRAPHY
	Motion	Picture Production Option
) -	Twenty-two units req	
)	I. Required course	
)	Ph/Jrn 5	Introduction to Photography (3) Intro. to Motion Picture Production (3) Inter. Motion Picture Production (3) Adv. Motion Picture Production (3) TV Station Observation (1)
3) 3)	MPP.54 Jrn 3 OR Ph 8	Intro. to Film History & Criticism (3) Mass Communications Multi-Media
3)	II. Acceptable coufollowing course	rses for the major (3 units required from the es)
3) 3) 3) 3) he di-	Art 22A OR Art 22B Hum 25 Jrn 3 Mus 30 Ph 8 Eng 53AB Jrn 1	Design Design The Humanities
(4)		Photography Option
(4)	Twenty-one units re	equired for the major
		ses for the major
(4)	Jrn 3 Ph/Jrn 5 Ph 6 Ph 7 MPP 10/ Eng 56 OR Eng/Hum/ MPP 54	Mass Communications
(4) (4)		the following courses. Three units must be in
(3) (3) (3) of 3 (3) . (3) . (3) . (3) . (3)	Art 22A OR Art 22B Art 3A OR Art 3B Psych 1A Psych 5 Jrn 1 Ph 8 Eng 56/ MPP 10 OR Eng/Hum/ MPP 54	Design Design History & Appreciation of Art History & Appreciation of Art General Psychology
		COSMETOLOGY
	Fortu-five units re	equired for the major
2000	I Required co	urses for the major
. (3) . (3) . (3) . (3) . (3)	Cos 50A Cos 50B Cos 52A	Introduction to Cosmetology (10) Introduction to Cosmetology (10) Intermediate Cosmetology (10) Intermediate Cosmetology (10) Advanced Cosmetology (5)

Advanced Cosmetology (5)

DATA PROCESSING Twenty units required for the major I. Required courses for the major Bus 1A Principles of Accounting(4) Principles of Accounting (4) Bus 1B Introduction to Data Processing..... (3) Bus 50 Bus 52 Computer Programming I (3) Bus 57 Programming in Basic(3) Acceptable courses for the major Computer Programming II......(3) Bus 53 Data Processing Systems (3) Bus 54 Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining additional experience for the major. WE Gen 70/ WE Occ 80 Personal Efficiency (3) (4) WE Gen 71/ WE Occ 81 Motivation(3) (4) WE Gen 72/ WE Occ 82 Labor and the Economy (3) (4) WE Gen 73/ WE Occ 83 Laws Affecting Employees (3) (4)

EARLY CHILDHOOD EDUCATION

Twenty-seven units required for the major

I. Required courses for the major ECE/Psych 20 Developmental Psych. of Children (3) ECE/Psych 21 Early Childhood Socialization: Children, Family and Community(3) ECE/Psych 22 Principles of Child Development and Observation (3) **ECE 23** Early Childhood Development ECE/TA 24 Young Children (3) ECE 25 Field Experience(3) ECE/Psych 26 The Art of Parenting(3) **ECE 28** Administration and Supervision in Early Childhood Education (3) TA/ECE 4 OR Bilingual-Multicultural Curriculum and Instruction ECE/Psych 34 Infant/Toddler Development . (3) II. Additional courses from the following list are recommended: **ECE 29** Child Development Associate: Intro. & Initial Assessment (2)

ECE 31 Child Development Associate Portfolio (2) Psvch 1A General Psychology(3) Psych 1B Advanced General Psychology (3) Psychology of Personal and Psych/TA 3 Social Adjustment (3) Psych 16 The Psychology of Interpersonal Relationships(3) Social Psychology(3) Psych 17 Understanding Exceptional Psych 27/ ECE 27/PL 1 Psych 30 Psychology of Adolescence (3) TA/ECE 6 Language Devel. for Young Children . (3)

Early Childhood Education majors are eligible for a Children's Center Permit as described in the degree program which includes 27 units in ECE, 16 units in General Education and completion of

Mathematics for Young Children (3)

TA/ECE 8

graduation requirements for the associate degree. Application for the Children's Center Permit can be made through the credentialing office at Imperial County Office of Education through California Teacher Preparation and Licensing, State Department of Education.

ENGINEERING TRANSFER

Forty-three units required for the major

I. Required courses for the major

Cham 1D

Chem 1A	General Inorganic Chemistry (5)
Math 3A	Analytic Geometry and Calculus (5)
Math 3B	Analytic Geometry and Calculus (5)
Math 4	Calculus & Differential Equations (4)
Phys 4A	Principles of Physics
Phys 4B	Principles of Physics
Phys 4C	Principles of Physics (4)
*A secretable	Colored for the major (colored a minimum of 10

II. *Acceptable courses for the major (select a minimum of 12 units)

General Ingressia Chemistry

Cnem IB	General Inorganic Chemistry (5)
Chem 5	Quantitative Analysis(4)
Chem 12	Organic Chemistry (5)
Engr 2A	Engineering Drawing(3)
Engr 5	Strength of Materials (3)
Engr 6	Engineering Materials (3)
Engr 11	Electric Circuits
Engr 15	Statics
Engr 16	Dynamics
**Engr 19	Statics and Dynamics (6)
Math 12	Elementary Statistics(3)
Math 47	Programming in Fortran(3)
Math 58	Computer Programming in Pascal (3)

*Prior to enrollment in any of these courses, engineering students should consult the catalog of the institution to which they plan to transfer and determine which courses on this list are applicable to their particular major. They should then enroll for as many of these applicable courses as possible.

**Engr 19 is equivalent to Engr 15 and Engr 16.

It is essential that engineering students enroll in mathematics during the first semester.

Students majoring in engineering and planning to attend only two years at IVC are advised to give priority to lower division requirements for the major as they are prerequisites for most upper division engineering courses. If the student also wishes to complete his/her general education requirements, it will necessitate at least one additional year at IVC.

Some of the courses in categories I and II will be offered only once every two years. See a counselor for specifics on course offerings or any questions regarding the engineering program.

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 43AB OR	Survey of English Literature	
Eng 42AB	World Literature	(3-3)

Stair Building (3)

Cos 54A

	25	
II.	Acceptable co	ourses for the major (6 units from the following
	Eng 52	Intro. to English Linguistics (3)
	Eng/Hum/ MPP 54	Introduction to Film History
	Eng 50	and Criticism
	Eng 53AB	Creative Writing(3-3)
	Eng 41	American Literature(3)
	Eng 45AD	Studies in Literature (3-3-3-3)
	Eng 46A	The Mexican American in Literature (3)
	Eng 46B	The Mexican American in Literature (3)
	Sant Carrier	6 sons derich hannet expensive out his expensive ethic officials (C.M. 1974 billios and C.M. 1984 billios (And 1984)).
		FIRE SCIENCE
Eigh	nteen to 21 uni	ts required for the major
I.	Required courses for the major	
	Fire Sci 60	Introduction to Fire Technology (3)
	Fire Sci 61	Fundamentals of Fire Prevention (3)
	Fire Sci 62	Fire Protection Equipment
		and Systems(3)
	Fire Sci 63	Fundamentals of Fire Behavior
	Fire Sci 64	and Control
	Fire Sci 65	Fundamentals of Personal Fire Safety
	The Scroo	and Emergency Action
	Math 51	Basic Mathematics, or equivalent (3)
		FOREIGN LANGUAGE
Trans	entu units reau	ired for the major

Twenty units required for the major

I. 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 courses listed below.

Elementary French* (5)

and Culture(3)

Introduction to French Civilization

French

Fr 1

II

Fr 40

	Fr 2 Fr 3 Fr 4 Fr 10	Elementary French**
	Fr 11	Intermediate Conversational French (3
	Spanish	
	Span 1 Span 2 Span 3 Span 4 Span 10 Span 11	Elementary Spanish*** (4 Elementary Spanish**** (4 Intermediate Spanish (4 Intermediate Spanish (4 Inter. Conversational Spanish (3 Advanced Conversational Spanish (3)
	Spanish (Bilin	gual)
	Span 20A Span 20B Span 21 Span 22 Span 23	Bilingual Spanish
•	ments if 16 unit	rses for the major (will fulfill major require is minimum in one language have been com f the areas listed below).
	Fr 20A	French Drama: Reading and Performance(2
	Fr 20B	French Drama: Reading and

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 24	Introduction to Spanish Literature
	(Conducted in Spanish) (3)
Span 25	Introduction to Spanish American
	Literature (Conducted in Spanish) (3)
Span 26	Introduction to Translation and
	Interpretation (3)
Span 28A	The Mexican American in Literature (3)
Span 28B	The Mexcian American in 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
	Studies (3)
Span 43	History and Culture of the
	Philippines(3)

Some courses may be waived through testing or advanced place-

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

Introduction to Business(3)
Business Management (3)
Principles of Marketing(3)
Practical Bookkeeping (3)
Introduction to Data Processing (3)

II.

Bus 13	Applied Business Law(3)
Bus 14	Practical Salesmanship (3)
Bus 21ABC	Proficiency-Exit Typewriting (2-2-2)
Bus 23	Office Machines (3)
Bus 24	Records Management (3)
Bus 41	Essentials of Business Correspondence (2)
Bus 43	Business Correspondence in Spanish
Bus 79/Jrn 8	Public Relations Techniques (3)

Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining additional experience for the major.

WE Gen 70/ WE Occ 80	P. district	
WE Gen 71/	Personal Efficiency	(3) (4
WE Occ 81 WE Gen 72/	Motivation	(3) (4
WE Occ 82 WE Gen 73/	Labor and the Economy	(3) (4
WE Occ 83	Laws Affecting Employees	(3) (4)

GENERAL MAJOR

Completion of a minimum of 18 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, Art Design Art, Anthropology, History, Philosophy Physical Science Anthropology ... Biological Science, Psychology, English, Mathematics Biological Science Biological Science, Chemistry, Physics, Business Business, Social Science, Mathematics, English

Comparative Literature English, History, Philosophy, Criminology English, Foreign Language, Social Science, Foreign Language

Economics	Mathematics
English	Mathematics Social Science, Mathematics, Business
Engineering	Social Science, Mathematics, Business
Foreign Language	English, Social Science, Philosophy Engineering, Mathematics, Physical Science
History	Foreign Language, History, Philosophy
Home Economics	History, Mathematics, Foreign Language
Toolionaes	Biological Science, Physics, Mathematics.
Physical Education	Social Science
January 2 addition	Social Science Physical Education, Biological Science,

Mathematics, Social Science Pre-DentistryBiological Science, Physical Science, English, Social Science Pre-PhysiotherapyBiological Science, Physical Science, Psychology...... Biological Science, Mathematics, Physical Science, Mathematics, Social Science

Philosophy, Anthropology, Sociology Recreation, Social Science

Students in the General Major will work out in conference with a counselor a course of study that will meet requirements for their specific majors at the selected colleges they expect to attend.

GENERAL OFFICE TECHNICIAN

Twenty units required for the major

I. Required courses for the major

	, , ,	
Bus 21ABC	Proficiency-Exit Typewriting	(2.2.2)
Bus 22	(50 wpm skill level required) Word Processing	
Bus 23	Office Machines	(3)
Bus 24		
Bus 41 OR	Records Management	(3)
Bus 42	Pusing Corresp.	(2 or 3)

Acceptable courses required)	for the	major	(minimum	of 6 or 7	unit
	Acceptable courses required)	Acceptable courses for the required)	Acceptable courses for the major required)	Acceptable courses for the major (minimum required)	Acceptable courses for the major (minimum of 6 or 7 required)

Bus 10A Bus 13	Practical Bookkeeping (3)
	- Pphea Dusiness Law
Bus 39	Office Procedures
Bus 40	Office Procedures
Bus 43	Grammar and Usage(3)
Bus 50	ous. Collegionnonco in Charles (a)
	Introduction to Data Processing (3)

III. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining additional experience for the major.

WE Gen 70/		-
WE Occ 80 WE Gen 71/	Personal Efficiency	(3)*(4)
WE Occ 81 WE Gen 72/	Motivation	
WE Occ 82 WE Gen 73/	Labor and the Economy	(3) (4)
WE Occ 83	Laws Affecting Employees	

GENERAL SCIENCE

Successful completion of all courses offered in one subject field (Anatomy, Biology, Botany, Chemistry, Geology, Math, Physics, Physiology, and Zoology) may be combined with courses from at least two other subject fields (within the general area of Natural-Physical Science) to accumulate 18 hours for the General Science

The most reliable guide for appropriate course combinations in this major will be the catalog from the specific college to which the student will transfer.

Natural Science

Anat 8	Human Anatomy
Anat 10	Human Anatomy
Bio 3	Human Anatomy & Physiology(5)
Bio 21	Principles of Biological Science (4)
Bot 1A	Ochetal Michalology
Bot 1B	
Env Sci/Ag 5	
Physio 1	Man and His Environment
Zool 1A	withdrid i i i i i i i i i i i i i i i i i i
Zool 1B	- Cricial 2001000
Zool 10	Life of the Past: An Introduction (4)
	to Paleontology (3)
Physical Scien	nce

Anthro 1 Astron 21 Chem 1A Chem 1B Chem 5 Chem 12 Geog I Geol 1A Math 2 Math 3A Math 3B Math 4A Phys Sci 25 Phys 2A Phys 2B OR Phys 4A Phys 4B Phys 4C	Physical Anthropology (3) Elementary Astronomy (3) General Inorganic Chemistry (5) General Inorganic Chemistry (5) Quantitative Chemistry (4) Organic Chemistry (5) Physical Geography (3) Physical Geology (4) Advanced Algebra & Trigonometry (5) Analytic Geometry & Calculus (5) Analytic Geometry & Calculus (5) Calculus & Differential Equations (4) Introduction to Physical Science (4) General Physics Principles of Physics (4) Principles of Physics (4) Principles of Physics (4)
- 1.50 1.0	Principles of Physics

MAJORS

GERONTOLOGY

Twenty-three units required for the major

I. Required courses for the major

	/9\
Geron 1	Fundamentals of Aging(3)
Geron 2	Sociology of Aging(3)
Geron 3	Peuchology of Aging(3)
Geron 4	Riology of Aging
Geron 5	Aging and the Quality of Life
Geron 11	Gerontology Practicum(2)
Psych 1A	General Psychology(3)
Sociol 1	Principles of Sociology(3)

GOVERNMENTAL MANAGEMENT PUBLIC SERVICE ADMINISTRATION

Twenty-one to 22 units required for the major

I.	Required	courses	for	the	major	

1.	medanoa o	
	Bus 8	Personnel Management (3)
	Bus 70	Fundamentals of Governmental Management(3)
	Bus 71	State and Local Government Management
	Bus 72	Finance Management
11	Acceptable	courses for the major (select 3 courses from the

11	Accentable o	ourses for the major (select 3 courses	from the
11.	following)		
	Pug 6	Management Concepts of	

Bus	6	Supervision
Bus	7	Human Relations in Management (3
Bus	000	Introduction to Data Processing (3 82 ORLabor and the Economy
WE	Occ	83 Laws Affecting Employees (4

GRAPHIC ARTS

Twenty-two units required for the major

I. Required courses for the major

	(2)
GA 10	Graphic Communication I(2)
GA 11	Graphic Communication II (3)
GA 12	Composition Layout, and Paste-up (3)
	Offset Printing I
GA 20	Offset Frinting 1
GA 21	Offset Printing II(3)
GA 22	Photography and Platemaking (3)
	Rindery Cutting, and Distribution (2)
GA 23	Graphics Plant Operation and
GA 30	Graphics Plaint 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

l.	Required course	25 lot the major	
	Psych 1A	General Psychology	(3)
	Psych/TA 3	Psychology of Personal and Social Adjustment	(3)
	ADS/Psych/ HR 9	Interviewing and Counseling	(3)
	Psych/HR 11A Social 1	Practicum	(3)

II. With the approval of his/her counselor and the Division Chairperson, the student will select a minimum of 9 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 9 units from the list below.

	emphasis to take	S Hote than a man
	Anthro 2 Bus 6	Cultural Anthropology
	bus o	Supervision
	D 7	Human Relations in Management (3)
	Bus 7	Introduction to Data Processing (3)
	Bus 50	Public Relations Techniques (3)
	Bus 79/Jrn 8	Personal & Career Development (3)
	HR/Psych 8	Small Group Leadership(3)
	HR/Psych 10	Mass Communications
	Jrn 3	Mass Communications
	Psych 1B	Advanced General Psychology (3)
	Psych 2	Intro. to Physiological Psychology (3)
	Psych 5	Psychology of Effective Behavior (3)
	- 107	(2)
	Math 12/Bus 26	6 Elementary Statistics
	Psych 14	Abnormal Psychology
	Psych 15/	Social and Psychological Dynamics
	Sociol 15	of Drug Use(3)
	Psych/HR 16	The Psychology of Interpersonal
	PSychilli 10	Relationships(3)
	Psych 17/	(3)
	Sociol 17	Social Psychology(3)
	Psych/ECE 20	Developmental Psych. of Children (3)
	Psych/ECE 26	Development of Parenthood
	Psych 30	Psychology of Audiescence
	Psych 35	Developmental Psychology:
	i dyon as	Concention to Death(3)
	Psych 40	Psychology of Crisis Counseling (3)
	Psych 46/	The Mentally III. Alcoholic, Drug
	Adm Jus 46	Addict and the Law(3)
	Sociol 2	Contemporary Social Problems (3)
	Sociol 10	Sociology of Minority Groups (3)
		Marriage and the Family(3)
	Sociol 33	Mass Sociology and Collective
	Sociol 41/	Behavior(3)
	Adm Jus 41	
c	trongly recomme	ended that students who do not speak Spanish

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 9 (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

Ag 33A	Farm Power
Ag 33B	Farm Power
Ag 37	Small Gasoline Engines
Ag 35	Child Dower
Auto Tech 52	Transmission Systems
Auto Tech 58	Automotive Air-Conditioning
HM 40/Ag 39	Diesel Engine Repair
1111 40/1.30	

			_
	Three (3) units	to be selected from the following courses	
	Ag 50 Eng 55 Weld 31 OR Weld 31A & Weld 31B	Shop Mathematics	
	WE Gen 70 WE Gen 71 WE Gen 72 WE Gen 73	Personal Efficiency (3) Motivation (3) Labor and the Economy (3) Laws Affecting Employees (3)	
	. 1	JOURNALISM	
V	enty-four units r	equired for the major	
Required courses for the major			
	Jrn 1	Introduction to Journalism(3)	

Twe

Jrn 1	Introduction to Journalism	(3)
Jrn 2ABC	Newspaper Production	(4-4-4)
Jrn 3	Mass Communications	(3)
MPP 10/	Introduction to Motion Picture	
Eng 56 OR	Production	
Jrn/Ph 5	Introduction to Photography	(3)

II. Acceptable courses for the major (minimum of 3 units from the following courses)

Econ 1	Principles of Economics (3)
Econ 2	Principles of Economics (3)
Eng 1B	Introduction to Literature (3)
Jrn 8/Bus 79	Public Relations Techniques (3)
Sociol 1	Principles of Sociology(3)
Sociol 2	Contemporary Social Problems (3)
MPP 10/	Introduction to Motion Picture
Eng 56	Production
Poly Sci 1	Introduction to Political Science (3)
*Poly Sci 2	American Government & Politics (3)
Bus 20	Elementary Typewriting(2)
Sp 1	Oral Communication (3)
Eng 53AB	Creative Writing(3-3)
Ph 8	Multi-Media(3)
Eng/Hum/	Introduction to Film History
MPP 54	and Criticism (3)

*If not used to satisfy the American Institutions requirement for graduation.

LEGAL ASSISTANT

Twenty-one units required for the major

I. Required courses for the major

Bus 5A	Business Law
LA 21	Research and Criminal Law (3)
LA 22	Civil Procedures and Family Law (3)
LA 23	Civil Discovery and Torts (3)
LA 24	Corporations and Bankruptcy (3)
LA 25	Real Estate Law for Legal Assistants (3)
LA 26	Wills-Trusts-Probate (3)

LIBERAL STUDIES (See Teacher Preparation)

LIFE SCIENCE

Eighteen units required for the major

Required courses for the major (minimum of 18 units from the following courses)

Anat 8	Human Anatomy (4
Anat 10	Human Anatomy and Physiology (5

Principles of Biological Science (4)
General Microbiology (4)
General Botany
General Botany(4)
Human Physiology(4)
General Zoology (4)
General Zoology(4)
Man and His Environment (3)
Physical Anthropology (3)
6 units from the following courses)
General Inorganic Chemistry (5)
General Inorganic Chemistry (5)
Quantitative Analysis(4)
Organic Chemistry (5)
Introduction to Chemistry (4)

MACHINERY OPERATION AND MAINTENANCE

Twenty-four units required for the major

I. Required courses for the major

HM 35	Heavy Equipment Operat Maintenance	
Ag 35	Fluid Power	
Ag 37	Small Gasoline Engines .	
Weld 31 OR		(5)
Weld 31A &	Oxy-Acetylene Welding	
Weld 31B	Arc Welding	(2 & 3)
Six (6) units to	be selected from the follow	ving courses:
Ag 50	Shop Mathematics	(3)

Ag 50	Shop Mathematics
Eng 55	Technical and Report Writing
WE Gen 70	Personal Efficiency
WE Gen 71	Motivation
WE Gen 72	Labor and the Economy
WE Gen 73	Laws Affecting Employees

MARKETING—SALES TECHNOLOGY

Eighteen units required for the major

I. Required courses for the major

Bus 2	Introduction to Business (3)
Bus 4	Principles of Marketing(3)
Bus 13	Applied Business Law(3)
Bus 14	Practical Salesmanship (3)
Acceptable courses)	courses for the major (6 units from the following

courses	
Bus 1A	Principles of Accounting (4)
Bus 10A	Practical Bookkeeping (3)
Bus 21ABC	Proficiency-Exit Typewriting (2-2-2)
Bus 23	Office Machines
Bus 65	Retail Sales Checking (2)
Econ 1	Principles of Economics (3)
Span 1	Elementary Spanish(4)

MATHEMATICS

Eighteen units required for the major

I. Required courses for the major

16.	
Math 3A	Analytic Geometry & Calculus (5
Math 3B	Analytic Geometry & Calculus (5

		_
Acceptable	courses for the major	I.
*Math C OR *Math 2	Plane Trigonometry Advanced Algebra and Trigonometry (3) (5)	
Math 4 Math 12 Math 47 Math 57 Math 58	Calculus & Differential Equations (4) Elementary Statistics (3) Programming in Fortran (3) Programming in Basic (3) Computer Programming in Pascal (3)	
mains	or Math 2, but not both, are acceptable for the	
	EDICAL OFFICE ASSISTANT	
Twenty-four to 2	25 units required for the major	
	ourses for the major Proficiency-Exit Typewriting (2-2-2)	
Bus 21AB0 Bus 22 Bus 23 Bus 24 Bus 41 OI Bus 42 Bus 80	(40 wpm skill level required) Word Processing	
Rue 83	Medical Insurance	
 Acceptable units) 	le courses for the major (select a minimum of 3	.F
Bus 10A Bus 13 Bus 39 Bus 40 Bus 43 Bus 50	Practical Bookkeeping	F
U.		
Twenty-nine u	units required for the major I for the major (minimum of 25 units from the follow-	
ing cours	ses) demic courses (minimum of 20 units from the follow-	
a. Aca	courses)	
Mus Mus Mus Mus Mus Note: N	s 8A Beginning Musicianship (2) s 8B Beginning Musicianship (2) s 8C Intermediate Musicianship (2) s 8D Intermediate Musicianship (2) s 9A Beginning Harmony (3) s 9B Beginning Harmony (3) s 9C Intermediate Harmony (3) s 9D Intermediate Harmony (3) Music 8A and 9A must be taken concurrently and the ce followed through 8D and 9D.	
b. Ap	plied Music (minimum of 5 units from the following urses). (Requirement may be waived through profination.)	
M	us 10A Beginning Group Piano I (1) us 32AD Applied Music	
c. Pe	erformance Ensembles (minimum of 8 units from the flowing courses)	•
M M M	ius 17AD Chamber Singers)) e
		14/

I.	Recommended as ele	ectives (do not fulfill major requirements)
		inning Group Piano II (1)
	T-t-	
	Inde	diate Group Piano II (+/
	D	inning Class Guitar
	Int.	ammodiate Class (iuitar \1/
	Paris A	minning Class Voice
	Day	mining Class Voice
	1-1	ammodiate Class Voice
	1-100 20 Y	termontal Ensemble(1-1-1-1)
	11:	story and Literature of Music (3)
	Li.	ctory and Literature of Music
	P	ass, Woodwind and Percussion
		Methods(2-2-2-2)
	Mus 25AD St	age Band
	D	hearsal and Performance(1-1-1)
	Mus 29AD Es	studiantina(1-1-1)
		tro. to Twentieth Century Music (3)
	Mus 64 C	ollege-Community Band (1)
		2 (L M
		- II IDCINIC
		NURSING
	Asso	ociate Degree Nursing
	Thirty-two support co	f units of nursing required for the major. urse units required to complete the nursing
	program.	a
	Pre-Application Rec	quirements
	English 1A	
	Satisfactory score	513
	Matti test of Matti	TOTAL 6
		101112
	Pre-Clinical Nursin	g
		Introduction to Health Sciences 2
	HT 1	Caranal Pouchology
	Psych 1A	Human Anatomy & Physiology 5
	Anat 10	
		TOTAL 10
	First Semester	CA MARK BETTA
	Psych 35	Developmental Psychology:
	1 Oyum ar	Conception to Death
	Bio 21	General Microbiology 4
	NS 1A	Introduction to Patient Care I4
	NS 1B	Introduction to Patient Care II 4
	NS 1C	Pharmacology I
		TOTAL 16.5
	Second Semester	
		The Dauchology of Interpersonal
	Psych 16	D latinophine
	NS 2A	M. t. with Cuclo
	NS 2B	Common Health Problems I
	NS 2C	Pharmacology II
	145 20	TOTAL 16
		TOTAL
į.	Third Semester	-4
1	I HILD Semester	tive 3 6.5
1	Humanities Elec	Common Health Problems II 6.5
!	NS 3A	Common Health Problems III 6.5
,	NS 3B	Patient Care Management
5	NS 3C	Patient Care Management 17
r		TOTAL 17

Fourth Semester	
Communication &	& Analytic Reasoning Course
	ons Course3
NS 4A	Common Health Problems IV 4.5
NS 4B	Advanced Nursing
NS 4C	Nursing Trends 1
	· TOTAL 16
	Vocational Nursing
	nired for the major. Fourteen support course mplete the vocational nursing program.
Pre-Application R	equirements
English 1A Satisfactory score	on pre-entrance
Math test or M	ath 513
	TOTAL 6
_ L	
Pre-Clinical Nursi	ng
HT 1	Introduction to Health Sciences 2
Psych 1A	General Psychology 3
Anat 6	Human Anatomy & Physiology
	for LVN's 3
	TOTAL 8
First Semester	
Psych 35	Developmental Psychology:
	Conception to Death
NS 1A	Introduction to Patient Care I 4
NS 1B NS 1C	Introduction to Patient Care II 4 Pharmacology I 1.5
No IC	
	TOTAL 12.5
Second Semester	
Psych 16	The Psychology of Interpersonal
2004 * 1984 (2012)	Relationships 3
NS 2A	Maternity Cycle
NS 2B	Common Health Problems I 5.5
NS 2C	Pharmacology II
	TOTAL 16
Third Semester	
NS 3A	Common Health Problems II 6.5
NS 3B	Common Health Problems III 6.5
NS 3C	Patient Care Management
NOTE TO SE	TOTAL 13.5
	TOTAL 13.5
PI	HYSICAL EDUCATION
Nineteen units requ	ired for the major
I. Required cours	ses for the major
	Health Education (3)
HE 1	
HE 1 HE 2	First Aid
HE 2 PE 6	Lifesaving (2)
HE 2 PE 6 PE 50	Lifesaving
HE 2 PE 6	Lifesaving
HE 2 PE 6 PE 50 PE 61	Lifesaving
HE 2 PE 6 PE 50 PE 61 II. Select six (6) to	Lifesaving
HE 2 PE 6 PE 50 PE 61 II. Select six (6) to PE 2ABCD	Lifesaving
HE 2 PE 6 PE 50 PE 61 II. Select six (6) to	Lifesaving
HE 2 PE 6 PE 50 PE 61 II. Select six (6) to PE 2ABCD PE 3ABCD	Lifesaving
HE 2 PE 6 PE 50 PE 61 II. Select six (6) to PE 2ABCD PE 3ABCD PE 4ABCD	Lifesaving

	PE 9ABCD	Adapted Physical Exercises, Coed(1-1-1-1)
	PE 10ABCD PE 11 ABCD PE 12ABCD	Team Sports (1-1-1-1) Volleyball, Coed (1-1-1-1) Tennis, Coed (1-1-1-1)
	PE 13	Advanced Tennis, Coed(1)
	PE 14ABCD	Recreational Games, Coed (1-1-1-1)
	PE 15ABCD	Figure Control for Women(1-1-1-1)
	PE 16ABCD	Group Slenderizing (2-2-2-2)
	PE 17ABCD	Physical Fitness, Men (1-1-1-1)
	PE 18ABCD	Golf, Coed(1-1-1-1)
	PE 19A	Karate, Coed
	PE 19B	Karate, Coed
	PE 19C	Advanced Karate(1)
	PE 20ABCD	Softball, Coed(1-1-1-1)
	PE 22ABCD	Racquetball and Handball,
	received the second of the	Coed(1-1-1-1)
	PE 23ABCD	Basketball for Women(1-1-1-1)
	PE 24ABCD	Basketball for Men(1-1-1-1)
	PE 25ABCD	Folk Dance, Coed (1-1-1-1)
	PE 26ABCD	Modern Dance, Coed(1-1-1-1)
	PE 27ABCD	Disco Dance, Coed(1-1-1-1)
	PE 28ABCD	Dance Theater, Coed (2-2-2-2)
	PE 29ABCD	Jazz Dance, Coed(1-1-1-1)
	PE 30ABCD	Song and Cheer(2-2-2-2)
	PE 31AB	Intercollegiate Football & PE (2-2)
	PE 32ABCD PE 33AB	Intercollegiate Basketball & PE (2-2-2-2)
	PE 33AB PE 34AB	Intercollegiate Track & PE (2-2)
		Intercollegiate Baseball & PE (2-2)
	PE 35ABCD PE 36AB	Intercollegiate Wrestling & PE(2-2-2-2) Intercollegiate Golf & PE(2-2)
	PE 37AB	Intercollegiate Cross Country
	LUMB	and PE(2-2)
	PE 38AB	Intercollegiate Tennis & PE(2-2)
	PE 40ABCD	Synchronized Swimming (2-2-2-2)
	PE 41AB	Intercollegiate Volleyball & PE (2-2)
	PE 42AB	Intercollegiate Soccer & PE(2-2)
	PE 43AB	Intercollegiate Softball & PE (2-2)
	PE 44/	the confirmation and
	Adm Jus 23	Defensive Tactics(1)
	PE 47	Coaching Techniques of Wrestling (2)
	PE 51	Structuring Intramurals (2)
	PE 52AB	Theory of Baseball(2-2)
	PE 53AB	Theory of Basketball, Coed(2-2)
	PE 54AB	Theory of Football(2-2)
	PE 56	Care & Prevention of Athletic Injuries (2)
	PE 58	Psychology of Coaching(2)
	PE 59AB	Sports Officiating, Men(3-3)
	PE 60AB	Sports Officiating, Women(3-3)
	PE 62AB	Physical Education for Special
		Olympics(3-3)
	Anat 8	Human Anatomy (4)
	Anat 10	Human Anatomy & Physiology (5)
	1	PHYSICAL SCIENCE
a۲	iteen units requi	red for the major
	1.7	es for the major (minimum of 18 units from
100	RECUITED COURS	es for the major trainimum of 18 units from

Eig

Required courses for the major (minimum of 18 units from the following courses)

Astron 21	Elementary Astronomy(3)
Chem 1AB	General Inorganic Chemistry (5-5)
Chem 5	Quantitative Analysis (4)
Chem 12	Organic Chemistry(5)
Env Sci/Ag 5	Man and His Environment (3)
Geog 1	Physical Geography(3)
Geol 1A	Physical Geology (4)
Phys Sci 2	Introduction to Physical Science (4)
Phys 2AB	General Physics (4-4)
Phys 4ABC	Principles of Physics (4-4-4)

II.	the following cou	ses for the major (maximum of 6 units from urses)
	Engr 23 Math 2	Slide Rule & Computations
	Math 3AB Math 4	Analytic Geometry & Calculus (5-5) Calculus & Differential Equations (4)
		PLANT SCIENCE
Tu	enty-three units i	required for the major
I.	Required cours	es for the major
	Ag 40 Ag 41 Ag 42 Ag 43 Ag 45	Soils (3) Fertilizers (3) Plant Science & Forage Crops (4) Field and Cereal Crops (4) Vegetable Production (3) Weeds and Weed Control (3)
II	. Acceptable co courses)	urses for the major (3 units from the following
	Ag 14 Ag 28	Entomology
	Ag 30	Agricultural Mechanics
	Ag 32 Ag 33A	F. Bouler
	Ag 65	Control of Insects and Other Pests (3) Introduction to Chemistry (4)
	Chem 2A	Technical and Report Writing
	Eng 55 Weld 31 OR	Basic Welding
	Weld 31A &	Oxy-Acetylene Welding
	Weld 31B	Arc Welding (2 & 3) Personal Efficiency
	WE Occ 80 WE Occ 81	Matingtion
	WE Occ 82	I show and the Fronomy
	WE Occ 83	Laws Affecting Employees (4)
		PSYCHOLOGY
	Twenty-one units	required for the major
	I. Required co	ourses for the major
	Psych 1A Psych 1B Psych 2	General Psychology
	Minimum o	f 12 units from any of the following courses:
	Psych 3	Psychology of Personal and Social (3)
	Psych 4	Psychology of Human Sexuality (3)
	Psych/HR/	Interviewing and Counseling (3)
	ADS 9 Psych/HR/	Page 17-12-12-12-12-12-12-12-12-12-12-12-12-12-
	ADS 11AE	Practicum
	Psych 14	Social and Psychological Dynamics
	Psych 15/ Sociol 15	of Drug Use
	Psych/HR	The Psychology of Interpersonal Relationships
	Psych 17/ Sociol 17	Complete Chology
	3000017	Psychology of Adolescence (3)

Psych 30

Psych 35

REAL ESTATE

Swenty-seven units required for the major

I.	Required cou	urses for the major
	Bus 90 Bus 91 Bus 92A Bus 92B Bus 93 Bus 94A Bus 94B Bus 95	Real Estate Principles Real Estate Practices Legal Aspects of Real Estate Legal Aspects of Real Estate Real Estate Finance Real Estate Appraisal Real Estate Appraisal Real Estate Economics

II. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining additional experience for the major.

WE Gen 70/ WE Occ 80	Personal Efficiency	(3) (4)
WE Gen 71/ WE Occ 81	Motivation	(3) (4)
WE Gen 72/ WE Occ 82	Labor and the Economy	(3) (4)
WE Gen 73/ WE Occ 83	Laws Affecting Employees	(3) (4)

RECREATION

Eighteen units required for the major

I. Required courses for the major Introduction to Leisure(3)

Rec 70

Rec 70	Introduction to Leisure
Rec 72	Outdoor Recreation(3)
	Provention for Special Groups (4)
Rec 73	Intro. to Community Recreation (3)
Rec 74	
T or 2 uni	its to be selected from the following courses
I WO OI 3 UII	(3)
Art 22A	Design
PE 59AB	C 1- Officiation Mon
PE JAND	Sports Officiating, Women(3-3)
PE 60AB	Physical Education in the
PE 61	Physical Education in the
	Elementary Schools(3)
PE 62AB	Physical Education for Special (3.3)
I L OZI ID	Olics
	Casial Pacroation
Rec 71	Social Recreation (2)
PE 6	Lifesaving(2)
	courses for the major (2 or 3 units to be selected
Acceptable	courses for the major (2 of 5 dime to 5
(th = fol	llouring courses)

from the following courses)

	/1 7 1 1 1
PE 3ABCD	Physical Fitness, Women (1-1-1-1)
	D. Indiana Cood
PE 4ABCD	Dauminton, 2002 (1.1.1.1)
PE 5ABCD	Swimming, Coed
PE 8ABCD	
PE 10ABCD	Team Sports
PE 11ABCD	
PE 12ABCD	
PE 14ABCD	Recreational Carres, (1-1-1-1)
PE 15ABCD	Figure Control for Women
PE 17ABCD	
PE 20ABCD	Softball, Coed
PE 23ABCD	
PE 24ABCD	Dashetoui (1-1-1-1)
PE 29ABCD	Jazz Dance, Coed(1-1-1-1)

REHABILITATION TECHNICIAN FOR THE PHYSICALLY LIMITED

T	- 02			£	AL	-:	
Twenty-two t	0 23	units	requirea	ior	tne m	alor	

l.	Required course	es for the major	
	PL 1/Psych 27/ ECE 27	Understanding Exceptional Students	(3)
	PL 2AB	Practicum Experience to World the Physically Limited Person	
	Psych 1A OR Psych 5	General Psychology Psych. of Effective Behavior	3.2
-1		wing options must be completed ken from other options and/or	

ceptable courses for the major) to total 14-15 units.

	Option A
PL 20 PL 21	Literary Braille
	Option B
PL 10 PL 11	Beginning Communication with the Deaf(4) Intermediate Communication with
	the Deaf(4)
	Option C
PL 33 PL 34	Introduction to Audiology
	Conservation (3)
	Option D
HA 15	Health Assistant with option in acute care, geriatric care, rehabilitation care, and home health care(9)

PE 62AB	Physical Education for Special
	Olympics
PL 12	Advanced Communication with
	the Deaf(3)
PL 13ABCD	Communication with the Deaf in the
	College Classroom (1-1-1-1)
PL 30	Intro. to Speech & Language (3)
PL 31	Interview and Testing Techniques for
	Speech & Hearing Problems (3)

Behavior Modification Techniques for Speech & Hearing Pathology (3) Introduction to Physical Therapy (3)

Intro. to Occupational Therapy (3) Psychology of Personal and Social

Adjustment (3)

Psych 9 Interviewing and Counseling (3) Rec 73 Recreation for Special Groups (4) Principles of Sociology (3) Sociol 1 Oral Communication (3) Sp 1 Sp 30 Voice & Articulation Development ... (3)

SECRETARIAL*

Twenty-two or 23 units required for the major

I. Required courses for the major

II. Acceptable courses for the major

PL 32

PL 40 PL 41

Psych 3

Bus 21ABC	Proficiency-Exit Typewriting (2-2-2)
Bus 22	Word Processing (3)
Bus 23	Office Machines(3)
Bus 24	Records Management (3)
Bus 32AB	Dictation & Transcription Lab (3-3)

Bus 39	Office Procedures		(3)
Bus 40	Grammar and Usage		(3)
Bus 41 OR	Essentials of Business	7	
	Correspondence		(2)
Bus 42	Business Correspondence		

*To qualify for a secretarial major, the student must have a minimum skill level of 60 words a minute in typing and 100 words a minute in shorthand dictation.

II. Recommended electives (do not fulfill requirements for the major). These courses will assist students in gaining additional experience for the major.

WE Gen 70/		
WE Occ 80	Personal Efficiency	(3)(4)
WE Gen 71/		0.00
WE Occ 81	Motivation	(3)(4)
WE Gen 72/		
WE Occ 82	Labor and the Economy	(3)(4)
WE Gen 73/		
WE Occ 83	Laws Affecting Employees	(3)(4)

SOCIAL SCIENCE

I. Required courses for the major ·

The requirements for a major in Social Science may be satisfied by taking 18 units from the following list to include at

least one cours	se from three of the seven fields:
Anthropology	
Anthro 1 Anthro 2 Anthro 3A	Physical Anthropology (3) Cultural Anthropology (3) Introduction to Archaeological
Anthro 3B	Site Surveying
Anthro 4 Anthro 5	California Indians
Anthro 6	Laboratory
Economics	
Econ 1 Econ 2	Principles of Economics (3) Principles of Economics (3)
Geography	
Geog 1 Geog 2	Physical Geography
History	
Hist 4A Hist 4B Hist 8A Hist 8B Hist 10	History of Western Civilization
Hist 17A Hist 17B	United States History
11: 100	34 : 0 AL A : C 4L 4 (0)

Political Science

Hist 30

Hist 40

Hist 41

Poly Sci 1	Introduction to Political Science (3)	
Poly Sci 2	American Government & Politics (3)	
Poly Sci 3	Comparative Politics(3)	
Poly Sci 14	Introduction to International	
iii.	Relations	

Civilization of Spanish America

Mexico & the American Southwest... (3)

Civilization of Spain & Portugal (3)

Psychology of Adolescence (3)

Conception to Death(3)

Developmental Psychology:

Social Science Soc Sci 52 Intro. to American Government (3) Soc Sci 69 Sociology Principles of Sociology(3) Sociol 1 Contemporary Social Problems (3) Sociol 2 Sociol 10 Sociology of Minority Groups (3) Sociol 33 Marriage and the Family(3)

SOIL AND WATER TECHNOLOGY

Twenty-two units required for the major I. Required courses for the major

Ag 32	Irrigation and Drainage
Ag 35	Fluid Power
Ag 37	Small Gasoline Engines
Ag 40	Soils
Ag 41	Fertilizers

II. Acceptable courses for the major (3 units from the following courses)

Heavy Equipment Operation and
Maintenance(5)
Farm Power
Basic Welding
Oxy-Acetylene Welding
Arc Welding (2 & 3)
Introduction to Chemistry (4)
Surveying for Engineering
Technology(3)
Personal Efficiency (4)
Motivation
Labor and the Economy(4)
Laws Affecting Employees (4)

TEACHER AIDE

Twenty-four units required for the major

I. Required courses for the major

TA 1	Intro. to Instructional Associate (3)
TA/Psych 3	Personal & Social Adjustment (3)
TA/ECE 4	Bilingual-Multicultural Curriculum
	and Instruction(3)
TA/ECE 6	Language Development for Young
	Children (3)
TA/ECE 8	Mathematics for Young Children (3)
TA 9	Field Experience (3)
TA/ECE/	Developmental Psychology of
Psych 20	Children(3)
TA/ECE/	Creative Learning Experiences for
Psych 24	Young Children(3)

TEACHER PREPARATION

The Teacher Preparation and Licensing Law of 1970 (Ryan Act) provides for two types of teaching credentials, each permitting instruction in grades K-12. One is the MULTIPLE 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 CREDEN-TIAL, 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/her 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
rieditii	Administrative

LIBERAL STUDIES MAJOR AT IVC

The Liberal Studies Major offers a general type of education that will enable the student to expand his/her background in the multiple subject groups of knowledge identified below.

The Liberal Studies Major in this catalog is recommended for students who plan to enter elementary education and transfer to San Diego State University. It meets the lower division requirements for the multiple subjects/diversified major as specified in the Ryan Act.

A minimum of 60 units, with a grade point average of 2.50, is needed to make formal application to the school of education. Students planning to transfer to an institution other than SDSU must follow their catalog. See a counselor regarding this major.

_		N	1.
Fo	orty-five to 59 ur	nits required for the major	
1	. English (15 u	nits required)	
	Eng 1A Eng 52 Eng 50 Eng 42A OR Eng 42B Sp 1	World Literature	1)
П.	Math and Sci	Oral Communication)
A.			
	Math 10 &	Math for Elementary School	
	Math 310B OR	(Take this course at SDSU)(3)	
	Math 3A & Math 3B	Analytic Geometry & Calculus Analytic Geometry & Calculus (5)	
B.		nce (4 units required)	
	Bio 3 Bot 1A Bio 21	Principles of Biological Science (4) General Botany	
C.	Physical Science	ce (3 or 4 units required)	
	Astron 21 Geog 1 Geol 11	Elementary Astronomy	
D	Phys Sci 25	mitroduction to Physical Science (4)	
		course required (select from areas B and C	
I	Math 2 Math 12	Physical Anthropology	
	Social Science	I - MANUTE III	
171.77.71		ive (3 units required)	
(Geog 2 (Cultural Anthropology Cultural Geography (3)	
(2)4	•	n (3 units required)	
E H H H Po	Con 2 F Iist 8A F Iist 8B F Iist 17A U Iist 17B U Oly Sci 1 Ir Oly Sci 2 A	Principles of Economics	
C. In	dividual Perspec	ctive (3 units required)	
Ps	sych 1A G	eneral Psychology(3)	
	umanities and F		
		(3 units required)	
Ph Ph	il 25 Re	troduction to Philosophy (3) troduction to Philosophy (3) ligions of the Modern World (3)	i
3. We	estern Civilizatio	on (3 units required)	(
Art Art Dri	t 3A His t 3B His m Art 5A His	story & Appreciation of Art (3) story & Appreciation of Art (3) story of World Drama (3)	t u

	Hist 4A Hist 4B	History of Western Civilization (3) History of Western Civilization (3)
C	. Art (3 units	s required)
	Art 20A Art 22A	Drawing
D	. Music (3 ur	nits required)
	Mus 7	Introduction to Music Foundations
E	 Humanities additional c 	Electives (3 or 4 units required) - select from ourses in areas A, B or C above or:
	Anthro 4 Art 30A Art 30B Mus 30 Fr 1 Fr 2 Fr 3 Fr 4 Span 1 Span 2 Span 3 Span 4 Span 20A Span 20B Span 21 Span 22	California Indians (3) Introduction to Art (2) Introduction to Art (2) Introduction to Music Literature and Listening (3) Elementary French (5) Elementary French (5) Intermediate French (4) Intermediate French (3) Elementary Spanish (4) Elementary Spanish (4) Intermediate Spanish (4) Intermediate Spanish (4) Bilingual Spanish (4) Intermediate Bilingual Spanish (4) Intermediate Bilingual Spanish (4)
V.		Advanced bilingual Spanish (4)
	HE 1 PE 61	Health Education (6 units required) Health Education
		TREATMENT TECHNOLOGY
Twer	ity-three units	required for the major
		ses for the major
1	WT 1 WT 2	Water Treatment Plant Operator I (4) Water Treatment Plant Operator II

I.

	WT 1 WT 2	Water Treatment Plant Operator I (4)
	WT 6	Water Treatment Plant Operator II (4) Computational Procedures for
	WT 9	Treatment Plant Operator I (3) Waste Water Treatment I (4)
	WT 10	Waste Water Treatment II (4)
	WT 11	Waste Water Treatment III
II.	Recommended	d courses for the major
	Bus 3	Business Management
	Bus 6	Business Management
	Bus 7	Supervision(3)
	Chem 1A	The state of the s
	Chem 2A	Ocheral Intervalle Laboratery
	WT 5	introduction to Chemistry (4)
	VV I D	Water Borne Diseases

WELDING TECHNOLOGY

Water Borne Diseases(3)

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.
student with interests along these interests

Twenty units required for the major

I	Required	courses	for	the	major
---	----------	---------	-----	-----	-------

medanon OB	Basic Welding	(5)
Weld 31 OR Weld 31A & Weld 31B	Oxy-Acetylene Welding Arc Welding	(2 & 3)
Weld 36A Weld 36B Weld 36C	Advanced Welding Advanced Welding Advanced Welding - Wel cation and Blueprint R	der Certifi-

CERTIFICATE **PROGRAMS**

ADMINISTRATION OF JUSTICE

Eighteen units	required	for	the	certificate
----------------	----------	-----	-----	-------------

ohteen units requ	inted for the certificate
Adm Jus 21 Adm Jus 33 Adm Jus 35 Adm Jus 36	Intro. to Administration of Justice (3) Concepts of Criminal Law (3) Legal Aspects of Evidence (3) Principles and Procedures of the
Adm Jus 37 Adm Jus 38	Juvenile Control

ALCOHOL AND DRUG STUDIES

Twenty-seven units required for the certificate I. Required courses for the certificate

Hedanie	
ADS/Psych/ HR 9 ADS/Psych/	Interviewing and Counseling (3)
HR 11AB	Practicum(3-3)
ADS/Sociol 15	of Drug Use(3)
ADS/Sociol 50	Human Services in a Changing Society
ADS 51	Alcoholism: Intervention, Treatment and Recovery
ADS 52	Physiological Effects of Alcohol and Drug Abuse(3)
Minimum of 6	units from any two of the following courses
ADS/Psych 53 ADS 54	Group Leadership & Group Process . (3) Family Counseling Approach to Alcohol and Drug Abuse (3)
ADS/Psych 55	Crisis Intervention and Reterral
ADS 56	Program Management Techniques (3)

Minimum of 3 units from any of the following

ADS 57ABCD Current Issues in Substance

ADS/Sociol 10 Sociology of Minority Groups (3)

Abuse (1-3, 1-3, 1-3, 1-3)

11.	Recommended	courses	(do	not	fulfill	certificate	require-
	ments)						Y
	Psych 3	Psychol	ogy o	of Pe	rsona	l and Socia	(3)

Psych 3	Adjustment
Psych 4	Psychology of Human Sexuality (3)
Psych/HR 16	The Psychology of Interpersonal Relationships
D 1- 20	Psychology of Adolescence(3)
Psych 30	Developmental Psychology:
Psych 35	Conception to Death
Sociol 33	Marriage and the Family(3)

FIELD ARCHAEOLOGY

Twenty-four units and 100 hours of field work required for the certificate

1.	Required	courses	for	the	certificate

 	. (2)
Anthro 1	Physical Anthropology (3) Cultural Anthropology
Anthro 2	Cultural Antihopology
Anthro 3A	Introduction to Archaeological Site Surveying(3)
Anthro 3B	Introduction to Archaeological
	Excavations(3)
Anthro 3C	Advanced Archaeological Survey (3)
Anthro 3D	Advanced Archaeological
	Excavations(3)
Anthro 4	California Indians(3)
Three units t	to be selected from the following courses
-2-55	Principles of Biological Science (4)
Bio 3	Physical Geography(3)
Geog 1	Physical Geology(3)
Geol 1A	Physical Geology
Geol 10	Life of the Past: An Introduction
	to Paleontology(3)
Geol 13	Geology of California
Zool 1A	General Zoology
Zool 1B	General Zoology(4)

AUTO BODY REPAIR AND PAINTING

Twenty-four to 27 units required for the certificate

elity lour to -	(3)	
Auto Tech 50	Shop Mathematics, if required (3)	
Auto Body 70	Auto Body Repairing & Painting (5)	
Auto Body 71	Advanced Auto Body Repair and	ě
riato boo,	Painting	9
Auto Body 72	Auto and Light Truck Major	
Auto Body	Collision Renairing	
Auto Tech 53	Dealess and Suspension	ŧ
Weld 31 OR	Rasic Welding	1
Weld 31A &	Oxy-Acetylene Welding	١
Weld 31B	Oxy-Acetylene Welding Arc Welding (2 & 3	,
AAGIG 21D		
The following	courses may be substituted for any of the	U
above required	courses may be substituted to a Body 70 and Auto Bod	1
71.		

AUTOMOTIVE TECHNOLOGY

Auto Tech 54 Electrical and Fuel Systems (3)

Auto Tech 58 Automotive Air-Conditioning (3)

Twenty-eight to 31 units required for the certificate

I. Required courses for the certificate

141-745-1230	(3)
Auto Tech 50	Shop Mathematics
Auto Tech 51	Engine Technology
Auto Tech 53	Brakes and Suspension

	Auto Tech 54	Carburetors, Fuel and Exhaust Systems(3)
	Auto Tech 55	Advanced Gasoline Engines (5)
	Auto Tech 60	Electrical, Starting, Charging, Ignition,
	11 1 4 1 1 2	and Related Electrical Systems (5)
11.	Acceptable con from the follow	urses for the certificate (minimum of 5 units ring)
	Auto Tech 52	Manual Transmissions and Power Trains (3)
	Auto Tech 56	Diagnostics
	Auto Tech 57	Fluid Power(4)
	Auto Tech 58	Automotive Air-Conditioning (3)
	Auto Tech-59	Small Gasoline Engines(3)
	Auto Tech 61	Automatic Transmissions (5)
	Auto Tech 63	Light Duty Diesel Engine Rebuilding
	Auto Tech 65	Basic Machine Shop Technology (3)
	Auto Tech 66	Machine Shop Technology (3)
	Weld 31	Basic Welding (5)

BANKING

ADMINISTRATIVE CERTIFICATE IN **BANK OPERATIONS**

Twenty-three units required for the certificate

Bus 1A	Principles of Accounting (4)
Bus 1B	Principles of Accounting(4)
Bus 6	Management Concepts of
	Supervision(3)
Bus 7	Human Relations in Management (3)
Bus 60	Principles of Bank Operations (3)
Select any	two of the following electives
Bus 5A	Business Law (3)
Bus 42	Business Correspondence (3)
Econ 1	Principles of Economics (3)
Sp 1	Oral Communication(3)

CREDIT ADMINISTRATION CERTIFICATE IN BANKING

Principles of Accounting(4)

Principles of Accounting(4)

Principles of Bank Operations (3)

Twenty-three units required for the certificate

Bus 1A

Bus 1B

Bus 60

Bus 61	Analysis of Financial Statements (3)
Bus 62	Installment Credit(3)
Select any t	wo of the following electives
Bus 5A	Business Law
Bus 7	Human Relations in Management (3)
Bus 42	Business Correspondence (3)
Bus 63	Financing Business Enterprises (3)
Bus 64	Agricultural Finance (3)
Econ 1	Principles of Economics (3)
Sp 1	Oral Communication

GENERAL CERTIFICATE IN BANK SERVICES***

Twenty-two to 23 units required for the certificate

Bus 5A	Business Law
Bus 10A	Practical Bookkeeping** (3)
Bus 21ABC	Proficiency-Exit Typewriting* (2-2-2)
Bus 23	Office Machines (3)
Bus 40	Grammar and Usage(3)
Bus 60	Principles of Bank Operations (3)

Select	anv	two	of	the	following	elective

Bus 7	Human Relations in Management (3)
Bus 39	Office Procedures (3)
Bus 41	Essentials of Business
	Correspondence(2)
Bus 50	Introduction to Data Processing (3)
Sp 1	Oral Communication (3)

*Minimum skill level 40 net words per minute required to qualify for certificate. If skill level attained in Bus 21A, student is excused from Bus 21B and Bus 21C.

**Bus 1A will be substituted if student has completed one year of high school bookkeeping.

***Designed for bank tellers, file clerks, bookkeepers, etc. Not intended for secretarial staff members.

SECRETARY CERTIFICATE IN BANK SERVICE

Twenty-two to 23 units required for the certificate

Bus 5A	Business Law
Bus 21ABC	Proficiency-Exit Typewriting* (2-2-2)
Bus 32AB	Dictation & Transcription Lab** (3-3)
Bus 40	Grammar and Usage(3)
Bus 41 OR	Essentials of Business Correspondence
Bus 42	Business Correspondence (2 or 3)
Bus 60	Principles of Bank Operations (3)
Select any two	of the following electives
Bus 7 Bus 23 Bus 39 Bus 50 Sp 1	Human Relations in Management (3) Office Machines (3) Office Procedures (3) Introduction to Data Processing (3) Oral Communication (3)
 USS SE STATE OF	

*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 and Bus 21C.

**Minimum skill level of 90 words per minute required to qualify. for certificate. If attained in Bus 32A, student is excused from Bus 32B.

BUSINESS

It is highly recommended that WE Gen 70/WE Occ 80, WE Gen 71/WE Occ 81, WE Gen 72/WE Occ 82, and WE Gen 73/WE Occ 83 be completed at Imperial Valley College to provide expanded experience for the following certificate programs.

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

Twenty-five to 28 units required for the certificate

Bus 10A	Practical Bookkeeping (3)
Bus 21ABC	Proficiency-Exit Typewriting (2-2-2) (40 wpm skill level required)
Bus 22	Word Processing (3)
Bus 23	Office Machines(3)
Bus 24	Records Management (3)
	Business Electives (8)
Math 51	Basic Mathematics (if required) (3)
Eng 51 OR	The Communication Process
Eng 3B	Writing Fundamentals (3)

Bus 23 Office Machines	Clerk Typist:		DATA PROCESSING
Superage	Twenty-five to 28	units required for the certificate	Eighteen units required for the certificate
Bus 22 Word Processing (3) Bus 23 Office Machines (3) Bus 23 Office Procedures (3) Bus 39 Office Procedures (3) Bus 50 Introduction to Data Processing, 30 Bus 50 Introduction to Data Processing, 30 Bus 50 Especial Programming in BASIC (3) Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50 Bus 50 Bus 50 Bus 50 Especial Procedures (3) Bus 50	Bus 21ABC		The state of the s
Eng 51 OR The Communication Process Writing Fundamentals Cosmetology (10) Cos 590 A Introduction to Cosmetology (10) Cos 590 A Introduction to Cosmetology (10) Cos 590 A Introduction to Cosmetology (10) Cos 590 A Intremediate Cosmetology (10) Cos 590 A Intremediate Cosmetology (10) Cos 590 A Intremediate Cosmetology (10) Cos 590 A Intermediate	Bus 23 Bus 24 Bus 39	Word Processing (3) Office Machines (3) Records Management (3) Office Procedures (3) Business Electives (8)	Bus 10A Practical Bookkeeping (3 Bus 10B Practical Bookkeeping (3 Bus 50 Introduction to Data Processing (3 Bus 52 Computer Programming I (3 Bus 57 Programming in BASIC (3
Bus 1A Principles of Accounting	Eng 51 OR	The Communication Process	to be selected from the following)
Twentry five to 32 units required for the certificate Bus 21ABC Proficiency-Exit Typewriting (2-2-2) (60 wpm skill level required) Bus 22 Word Processing (3) Bus 24 Records Management (3) Bus 24 Records Management (3) Bus 39 Dictation & Transcription Lab (3) Bus 39 Office Machines (3) Bus 40 Grammar and Usage (2-0) Essentials of Bus (3) Bus 41 OR Essentials of Bus (3) Essentials of Bus (3) Bus 40 Basic English Composition (4) Eng 1A Reading and Composition (5) Eng 1A Reading and Composition (6) Eng 1A Reading and Composition (7) ECE/Psych 20 Developmental Psychology of Children (7) ECE/Psych 21 Early Childhood Socialization: Childre Framily and Community (7) ECE/Psych 22 Early Childhood Development (7) ECE/Psych 23 Early Childhood Development (7) ECE 25 Furnity Furnity (7) ECE 25 Early Childhood Development (7) ECE 25 Early Childhood Development (7) ECE 25 Early Childhood Development (7) ECE 25 Early Childron's Center Permit upon completion of Early Childron's Center Permit applicant is available. The application of Early Childron's Center Permit applicant is available. The application of Early Ch	65 So	5	
Bus 21ABC Bus 22 Bus 23 Bus 23 Bus 23 Bus 24 Bus 25 Bus 25 Bus 26 Bus 26 Bus 27 Bus 27 Bus 28 Bus 29 Bus 20			Bus 53 Computer Programming II (3
Bus 22 Word Processing (3) Bus 24 Records Management (3) Bus 24 Records Management (3) Bus 24 Records Management (3) Bus 39 Dictation & Transcription Lab (3) Bus 39 Office Procedures (3) Bus 40 Grammar and Usage (3) Bus 41 OR Essentials of Bus Corresp. Eng 42 Business Correspondence Basic English Composition Reading and Composition (3) Reading and Composition (3) Bus 41 OR Reading and Composition (3) Bus 41 OR Reading and Composition (3) Bus 41 OR Reading and Composition (3) Bookkeeper-Technician: Twenty-three to 26 ³ cunits required for the certificate (40 wgm skill level required) Bus 21 Office Procedures (3) Bus 21 ABC Proficiency-Exit Typewriting (2-2-2) (40 wgm skill level required) Bus 23 Office Machines (3) Bus 24 Records Management (3) Bus 25 Office Machines (6) Math 51 Basic Mathematics (if required (3) Bus 26 Records Management (3) Bus 27 Records Management (3) Bus 28 Records Management (3) Bus 29 Records Management (3) Bus 29 Records Management (3) Bus 20 Records Management (3) Bus 21 Records Management (3) Bus 22 Records Management (3) Bus 24 Records Management (3) Bus 39 Records Management (3) Bus 30 Reading (40 wgm skill level required (2-2-2) And Reading (40 wgm skill level required (2-2-2) Bus 23 Office more required (3) Bus 24 Records Management (3) Bus 25 Records Management (3) Bus 26 Records Management (3) Bus 27 Records Management (3) Bus 28 Records Management (3) Bus 29 Records Management (3) Bus 29 Records Management (3) Bus 20 Records Management (3) Bus 24 Records Management (3) Bus 25 Records Management (3) Bus 26 Records Management (3) Bus 27 Records Management (3) Bus 28 Records Management (3) Bus 29 Records Management (3) Bus 20 Records Management (3) Bus 20 Records Management (3) Bus 21		Proficiency-Exit Typewriting (2-2-2)	
Bus 41 OR Essentials of Bus. Correspondence Eng 42 Business Correspondence Eng 42 Business Correspondence Eng 42 Business Correspondence Eng 1A Reading and Composition (3) Math 51 Basic Mathematics (if required) (3) Bookkeeper-Technician: Twenty-three to 26\(^1\)\text{units required for the certificate} Bus 10A Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 21 ABC Proficiency-Exit Typewriting (2-2-2) (40 wgm skill level required) (3) Bus 23 Office Machines (3) Bus 24 Records Management (3) Bus 25 ABC Proficiency-Exit Typewriting (2-2-2) (40 wgm skill level required) Business Electives (6) Math 51 Basic Mathematics (if required Eng 3B Writing Fundamentals (3) Erg 51 OR The Communication Process Eng 3B Writing Fundamentals (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Litermediate Cosmetology (10) EMT 2A Emergency Medical Technician 2A (10) EMT 2A (Bus 23 Bus 24 Bus 32AB	Word Processing	Even though they do not fulfill requirements for the certificate it is highly recommended that WE Gen 70/WE Occ 80, WE Ger 71/WE Occ 81, WE Gen 72/WE Occ 82, and WE Gen 73/WE Occ 83 be completed to provide expanded experience for the certificate.
Eng 42 Business Correspondence Legish Composition Reg 1A Reading and Composition (3) Math 51 Basic Mathematics (if required) (3) Bookkeeper-Technician: Twenty-three to 26 units required for the certificate Bus 10A Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 21ABC Proficiency-Exit Typewriting (2-2-2) (40 wpm skill level required) Bus 23 Office Machines (3) Bus 24 Records Management (3) Bus 24 Records Management (3) Bus 25 Office Machines (6) Math 51 Basic Mathematics (if required) Eng 51 OR The Communication Process Eng 3B Writing Fundamentals (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Cos 52B Int	Bus 40	Grammar and Usage(3)	EARLY CHILDHOOD EDUCATION
Eng 1A Reading and Composition (3) Math 51 Basic Mathematics (if required) (3) Bookkeeper-Technician: Twenty-three to 26/units required for the certificate Bus 10A Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 21ABC Proficiency-Exit Typewriting (2-2-2) (40 wpm skill level required) Office Machines (3) Bus 24 Records Management (3) Bus 25 A Records Management (3) Business Electives (6) Math 51 Basic Mathematics (if required) Bus 24 Writing Fundamentals (3) Eng 51 OR The Communication Process Eng 3B Writing Fundamentals (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 5 Interior and Exterior Finish (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Eng 52B Intermediate Cosmetology (10) EME Cos 52		Business Correspondence (2 or 3)	Fifteen units required for the major
Bookkeeper-Technician: Twenty-three to 26 units required for the certificate Bus 10A Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 21ABC Proficiency-Exit Typewriting (2-2-2) (40 upm skill level required) Bus 23 Office Machiness (3) Bus 24 Records Management (3) Bus 25 Records Management (3) Bus 26 Records Management (3) Bus 27 Records Management (3) Bus 28 Records Management (3) Bus 29 Records Management (3) Bus 20 Records Management (3) Bus 20 Records Management (3) Bus 21 Records Management (3) Bus 22 Records Management (3) Bus 23 Office Machiness (6) Math 51 Basic Mathematics (if required) Eng 51 OR Eng 3 Writing Fundamentals (3) Eng 51 OR Eng 3 Rough Framing (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 50B Intermediate Cosmetology (10) Cos 52B Intermediate Cosmetology (ECE/Psych 20 Developmental Psychology of Children
ECE/Psych 22 Principles of Child Development and Observation	Math 51	Basic Mathematics (if required) (3)	ECE/Psych 21 Early Childhood Socialization: Children,
Bus 10A Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 21ABC Proficiency-Exit Typewriting (2-2-2) (40 wpm skill level required) Bus 23 Office Machines. (3) Bus 24 Records Management. (3) Bus 25 Records Management. (3) Bus 26 Records Management. (3) Bus 27 Records Management. (3) Bus 28 Records Management. (3) Bus 29 Records Management. (3) Bus 20 Records Management. (3) Bus 20 Records Management. (3) Bus 21 Records Management. (3) Bus 21 Records Management. (3) Bus 22 Records Management. (3) Bus 23 Office Machines. (6) Math 51 Basic Mathematics (if required) Eng 51 OR The Communication Process Eng 3B Writing Fundamentals (3) Eng 51 OR The Communication Process Eng 3B Rough Framing (3) Carp 1 The Apprenticeship and Math (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 5 Interior and Exterior Finish (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Intermediate Cosmetology (10) Cos 52B Intermediate Cosmetology (10)	Bookkeeper-Tec	hnician:	ECE/Psych 22 Principles of Child Development
Bus 10A Practical Bookkeeping (3) Bus 10B Practical Bookkeeping (3) Bus 21ABC Proficiency-Exit Typewriting (2-2-2) (40 wpm skill level required) Bus 23 Office Machines (3) Bus 24 Records Management (3) Bus 25 Records Management (3) Bus 26 Records Management (3) Bus 27 Records Management (3) Bus 28 Records Management (3) Business Electives (6) Math 51 Basic Mathematics (if required) Eng 51 OR Eng 3B Writing Fundamentals (3) Eng 51 OR Eng 3B Writing Fundamentals (3) CARPENTRY Twenty-four units required for the certificate CARPENTRY Twenty-four units required for the certificate Carp 1 The Apprenticeship and Math (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Cos	Twenty-three to 26	units required for the certificate	
Bus 23 Office Machines	Bus 10B	Practical Bookkeeping	Curriculum
Twenty-four units required for the certificate Carp 1 The Apprenticeship and Math (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Cos 52B Inte	Bus 24 Math 51 Eng 51 OR	Office Machines (3) Records Management (3) Business Electives (6) Basic Mathematics (if required) (3) The Communication Process	Emergency Children's Center Permit upon completion of the certificate. This requires an employer statement that no Regular Children's Center Permit applicant is available. The application for the Emergency Children's Center Permit can be made through the credentialing office at Imperial County Office of Education through California Teacher Preparation and Licensing, State
Carp 1 The Apprenticeship and Math (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Cos 52B Intermediate Cosmetology (10) Carp 1 The Apprenticate (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Intermediate Cosmetology (3) Carp 5 Intermediate Cosmetology (10) Cos 52B Intermediate Cos		CARPENTRY	
Carp 1 The Apprenticeship and Math (3) Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate	Twenty-four units	required for the certificate	ELECTRONICS
Carp 2 Pre-job and Plot Planning (3) Carp 3 Rough Framing (3) Carp 4 Roof Framing (3) Carp 5 Interior and Exterior Finish (3) Carp 6 Stair Building (3) Carp 7 Concrete and Forms (3) Carp 8 Heavy Timber Construction and Welding (3) Cos 50A Introduction to Cosmetology (10) Cos 50B Introduction to Cosmetology (10) Cos 52B Intermediate C		A CONTROL TO THE CONTROL OF THE CONT	Fifteen units required for the certificate
Carp 7 Carp 8 Concrete and Forms	Carp 2 Carp 3 Carp 4 Carp 5	Pre-job and Plot Planning (3) Rough Framing (3) Roof Framing (3) Interior and Exterior Finish (3)	Electronics 1A Basic Electronics
COSMETOLOGY EMT 1/A Emergency Medical Technician 1/ Ambulance	Carp 7	Concrete and Forms(3) Heavy Timber Construction and	EMERGENCY MEDICAL TECHNICIAN I
Forty-five units required for the certificate Cos 50A Introduction to Cosmetology		welding(3)	Five and one-half units required for the certificate
Cos 50A Introduction to Cosmetology (10) Introduction to Cosmetology (10) Intermediate Cosmetology (10) Intermediate Cosmetology (10) Intermediate Cosmetology (10) Intermediate Cosmetology (10) EMT 2A Emergency Medical Technician 2A		COSMETOLOGY	EMT 1/A Emergency Medical Technician 1/ Ambulance
Cos 50B Introduction to Cosmetology (10) Cos 52A Intermediate Cosmetology (10) Cos 52B Intermediate Cosmetology (10) EMT 2A Emergency Medical Technician 2A	Forty-five units red	Production of Market State Sta	EMERGENION APPLICATION OF THE PROPERTY OF THE
Cos 52B Intermediate Cosmetology (10) EMT 2A Emergency Medical Technician 2A	Cos 50B	Introduction to Cosmetology (10)	
		Intermediate Cosmetology(10)	At again,

FIRE SCIENCE	
Eighteen to 21 units required for the certificate	
Fire Sci 60 Fire Sci 61 Fire Sci 62 Fire Sci 62 Fire Protection Equipment and Sustance	
Fire Sci 63 Fire Sci 64 Fundamentals of Fire Behavior and Control Fire Sci 64 Fundamentals of Fire Behavior (3)	
Fire Sci 65 Fundamentals of Personal Fire Safety and Emergency Action (2)	7
Math 51 Basic Mathematics, or equivalent (3)	R
GERONTOLOGY	
Twenty-three units required for the certificate	
Geron 1 Fundamentals of Aging	
GOVERNMENTAL MANAGEMENT PUBLIC SERVICE ADMINISTRATION	
Twenty-one to 23 units required for the certificate	
Bus 8 Personnel Management	Are
Management (a)	and Twe
Bus 72 Finance Management	I.
Bus 6 Management Concepts in Supervision	
Laws Affecting Employees (4)	O.
GRAPHIC ARTS — MULTI-MEDIA	
Fourteen units required for the certificate	
GA 10 GA 11 GA 12 GA 12 GA 22 OR GA 20 Graphic Communications I	I I I I I
GRAPHIC ARTS — PRINTING	P
Eleven units required for the certificate	P
GA 20 Offset Printing I	P P P

HEALTH ASSISTANT

Nine units requi	red for the certificate
HA 15	Health Assistant (9)
Specialty areas tion Care, Home	include: Acuta Cara C :

HEAVY MACHINERY

Thirty-six units required for the certificate

Danie 1	
Required	COLIFCOC

16	quirea courses:	
	HM 35	Heavy Equipment Operation and
	Ag 33A Ag 33B Ag 35 Ag 37 Auto Tech 53	Maintenance (5) Farm Power (5) Farm Power (5) Fluid Power (4) Small Gasoline Engines (3) Brakes and Suspension (5)
	Nine (9) units	to be selected from the following courses:
	Ag 50 Weld 31 OR Weld 31A & Weld 31B	Shop Mathematics
	WE Gen 70 WE Gen 71 WE Gen 72 WE Gen 73	Personal Efficiency
	14 44	

HUMAN RELATIONS

reas of emphasis: Community Mental Health Worker, Counseling, School, Social Services, Personnel, Employment Counseling nd Supervision

wenty-four units required for the certificate

Required courses for the certificate

Psych 1A Psych/TA 3	General Psychology (3) Psychology of Personal and Social
Psych/HR 9 Psych 11AB/	Adjustment
HR 11AB Sociol I	Principles of Sociology (3-3)

With the approval of his/her counselor and the Division Chairperson, the student will select a minimum of 9 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 9 units from the list below.

Anthro 2	and the state of t
	Cultural Anthropology (3)
Bus 6	inaliagement Concepts of
Bus 7	Supervision
Bus 50	Introduction to Date D
Bus 79	Introduction to Data Processing (3)
HR/Psych 8	" WOULD INCIDENCE TO CHANGINGS
HP/Parel 10	e sulla of Carper Development
HR/Psych 10	Ornal Oloup Leadership
Jrn 3	Mass Communications (3)
Psych 1B	Advanced General Psychology (3)
Sych 2	Intro to Physical - 1 (3)
Psych 5	Intro. to Physiological Psychology (3)
sych 12/Bus 2	
Math 12	Elementary Statistics
sych 14	Abnormal Pauchala
sych 15	Social and Psychological Dynamics (3)
	of Drug Use(3)

Psych/HR 16	The Psychology of Interpersonal Relationships		REAL ESTATE
Psych 17 Psych 20 Psych/ECE 26 Psych 30	Social Psychology	student will be eligi Certificate which Division of Real Es	tory completion of the following courses, the ble for the California Junior College Real Estate is issued in cooperation with the California tate and the California Real Estate Association tion and Research Program.
Psych 35	Developmental Psychology:		required for the certificate
Psych 40	Conception to Death	Bus 90	Real Estate Principles (3)
Psych 46/ Adm Jus 46 Sociol 2 Sociol 41/ Adm Jus 41	The Mentally Ill, Alcoholic, Drug Addict, and the Law	Bus 91 Bus 92A Bus 92B Bus 93 Bus 94A Bus 94B Bus 95	Real Estate Practices
Twenty-one units re	equired for the certificate		RECREATION
Bus 5A LA 21	Business Law	Eighteen units req	uired for the certificate
LA 22	Civil Procedures and Family Law(3)	Rec 70	Introduction to Leisure (3)
LA 23 LA 24	Civil Discovery and Torts	Rec 72 Rec 73	Outdoor Recreation
LA 25	Corporations and Bankruptcy (3) Real Estate Law for Legal	Rec 74	Intro. to Community Recreation (3)
LA 26	Assistants (3) Wills-Trusts-Probate (3)	Two or three units to be selected from the following courses	
BASI	C LIBRARY TECHNICIAN	Art 22A PE 59AB PE 60AB PE 61	Design
Fifteen units require	ed for the certificate	PE 62AB	Physical Education for Special
LT 51 LT 52 LT 53	Introduction to Library Services (3) Support for Technical Services (3) Support for Public Services (3)	Rec 71 PE 6	Olympics (3-3) Social Recreation (3) Lifesaving (2)
LT 54 LT 55	Intro. to Audiovisual Services (3) Cataloging and Classifying (3)	PE 3ABCD	units to be selected from the following courses Physical Fitness, Women (1-1-1-1)
		PE 4ABCD	Badminton, Coed (1-1-1-1)
		PE 5ABCD PE 8ABCD	Swimming, Coed
MARKET	ING—SALES TECHNOLOGY	PE 10ABCD	Team Sports (1-1-1-1)
Eighteen units requ	ired for the certificate	PE 11ABCD PE 12ABCD	Volleyball, Coed(1-1-1-1) Tennis, Coed(1-1-1-1)
Bus 2	Introduction to Business	PE 14ABCD	Recreational Games, Coed (1-1-1-1)
Bus 4 Bus 13	Principles of Marketing	PE 15ABCD PE 17ABCD	Figure Control for Women(1-1-1-1) Physical Fitness, Men(1-1-1-1)
Bus 14	Practical Salesmanship (3)	PE 20ABCD	Softball, Coed (1-1-1-1)
Six units to be	selected from the following courses	PE 23ABCD PE 24ABCD	Basketball for Women
Bus 1A Bus 10A Bus 21ABC Bus 23	Principles of Accounting (4) Practical Bookkeeping (3) Proficiency-Exit Typewriting (2-2-2) Office Machines (3)	PE 29ABCD	Jazz Dance, Coed(1-1-1)
Bus 65 Econ 1	Retail Sales Checking		TATION TECHNICIAN FOR THE PHYSICALLY LIMITED
		Twenty-five to 26 t	units required for the certificate
PATIENT SERV	ICE ADMINISTRATION SPECIALIST	I. Required cour	rses for the certificate
Seventeen units rec	quired for the certificate	PL 1/Psych 2	
HT 3/Bus 80 HT 4/Bus 81 HT 5/Bus 82	Medical Terminology (3) Medical Transcription	PL 2AB	Understanding Exceptional Students (3) Practicum Experience to Work with the Physically Limited Person (2-2)
HT 5/Bus 82 HT 6/Bus 83 HT 7/Bus 84	Patient Information Systems (3) Medical Insurance (3) Patient Administration Services	Psych 1A OR Psych 5	
HT 8/Bus 85	Management of Patient Services Operations (2)	Eng 51 OR Eng 1A	The Communication Process Reading and Composition (3)

One of the following options mus may be taken from other optic courses for the certificate) to tol		
Optio	on A	
PL 20 Literary Bra PL 21 Psychology	of Physical Disabilities (3)	
Optio		
The Deat	Communication with	
the Deaf	Communication with (4)	
Option	n C	
radiometry	to Audiology (3) and Hearing ion (3)	
Option		
HA 15 Health Assis	tant, with option in (9)	Tw
Rehabilitat	ion Care, and Home	
II. Acceptable courses for the	•	
toochtable courses for the ca		
PE 62AB Physical Educ	cation for Special	
the Deaf	ommunication with	
College Cla	on with the Deaf in the)ne
into to oper	CILOX L'ADOLIAGO (2) (-	or a
MILE WHITE	Lesting Lechniques for	att
Speech and	ification Techniques for (F	Rec
miroduction (D PRUSICAL [herapu (2)	wer
mitto. to Occu	pational Therapu (2)	9
_ Adjustment	Personal and Social	1
milet viewitig at	10 Counseling (2)	1
_ itecreation to	SDPCIAL CAROLING (A)	4
i thetples of Se	ociology	1
Sp 30 Voice & Articu	tlation Development (3)	I
	ra	tte
TEACHER A		eco rso:
Twenty-four units required for the co	ertificate Eig	
TA 1 Intro. to Instruc TA/Psych 3 Psychology of F	ctional Associate (3)	V
TA/ECE 4 Bilingual-Multici	ultural Curriculum	Α
TA/ECE 6 Language Devel	opment for Young	A
Triathematics for	Young Children (3) Pat	A ter
TA/ECE/ Developmental I	Psychology of (Rec	
TA/ECE 24 Creative Learning	ng Experiences for Twe	enty
Young Childre	en (3)	W
VOCATIONAL NU	IRSING	W
		W
Forty-nine and one-half units required		Au
Introduction to F	lealth Sciences (2)	Eig t
	50 to 60	

_		
5	Anat 6	Human Anatomy & Physiology
	Psych 1A	IOT LVN's
	Psych 16	The Psychology of Interpersonal
	Psych 35	Relationships
	NS 1A	Conception to Death
	NS 1B	Introduction to Patient Care II (4)
	NS 1C	r Hai Hacologu I
	NS 2A	Material Cocie
	NS 2B	
	NS 2C NS 3A	
	NS 3B	
	NS 3C	Common Health Problems III (6.5) Patient Care Management (.5)
	WATI	ER TREATMENT TECHNOLOGY
	Twenty-three un	nits required for the certificate
	WT 1	Water Treatment Plant Operator I (4)
	WT 2	water Treatment Plant Operator II (4)
	WT 6	Computational Procedures for
	WT 9	Treatment Plant Operator I
	WT 10	vydsie vydier i roatmont i
	WT 11	vvdale vvdler i reatment II
		Waste Water Treatment III (4)
		WELDING
	One of the following	ng four patterns of study will fulfill requirements
		Welding Technology.
	Pattern One	> ★ 1 /100 Earl
	(necommended to	or Agriculture and Agricultural Services)
	Twenty to 21 unit	s required for the Pattern One certificate
	Weld 31 OR	Basic Welding
	Weld 31A &	Oxy-Acetylene Welding(5)
	Weld 31B	Arc Welding
	Weld 36A	Advanced Wolding
	AE 20 OR	Alcohol Fuel Production (5)
	Weld 38	Sheet Metal Fundamentals (3 or 2)
	Eight units se	lected from agriculture courses (8)
I	Pattern Two	Silventure courses (8)
(Recommended for	air-conditioning mechanics and construction
ŗ	personnel)	and construction
E	Eighteen to 19 unit	s required for the Pattern Two certificate
	Weld 36A Weld 36B	Advanced Welding
	AE 10 OR Weld 38	Sheet Metal Francisco
	Ag 36	Agriculture Construction . (3 or 2)
	Ag 38	Agriculture Construction
P	attern Three	
(F	lecommended for dustries)	welders with a future in general service
Γι	wenty-one units re	quired for the Pattern Three certificate
	Weld 31 OR	Basic Welding
	Weld 31A &	Over Acetulary W. 1.1. (5)
	Weld 31B	Oxy-Acetylene Welding Arc Welding (2.8-2)
	Weld 36A	
	Auto Tech 65	Advanced Welding
	Eight units select	ted from agriculture and/
	technology co	ourses(8)
		(8)

(Recommended for the experienced welder who wishes to advance his/her general capabilities in welding and fabrication processes)

Eighteen to 19 units required for the Pattern Four certificate

Weld 36B Weld 36C	Advanced Welding Advanced Welding - Welder (& Blueprint Reading	_errincation
AE 20 OR Weld 38	Alcohol Fuel Production Sheet Metal Fundamentals	(3 or 2)
Engr 21 Weld 50	Technical Drawing Shop Mathematics	(3)

OCCUPATIONAL WORK EXPERIENCE

Twenty-eight units required for the certificate

	Personal Efficiency(4)
WE Occ 80	Personal Efficiency
WE Occ 81	Motivation(4)
	t -b and the Fconomy
WE Occ 82	Laws Affecting Employees (4)
WE Occ 83	Laws Affecting Employees

Twelve units from the student's planned course of occupational training as approved by the Dean of Vocational-Technical Education.

Α	Counseling and Guidance Services
Absence	Courses of Instruction
	Courses, Types14
Academic Dismissal	Credentials, Teaching
Academic Probation21	Credit by Examination20
Academic Renewal	Credit for Upper Division Course Work
Accreditation	Credit Classes
Activities, Student	Curricula, Occupational26
Additional Degrees	
Administration6	D
Administration of Justice27	D # D.
Admission	Deadline Dates5
College Transfers	Degrees
Foreign Students	Dismissal Policies
High School Graduates	Directors and Coordinators7
Non-Graduates of High School	Division Chairpersons
Out-of-State Students	Dramatic Art
Special High School Students	E
Advanced Placement, Nursing	L
Affiliations, Institutional	Early Childhood Education
Affirmative Action Policy	Economics
Agriculture	Education (not a major)40
Alcohol and Drug Studies30	Education, Teacher Preparation88
Alpha Gamma Sigma	Electricity40
Alternate Energy	Electronics
Anatomy	Emergency Medical Technician41
Anthropology	Emeritus Faculty
Art	Engineering41
Assistance, Financial	
	English
Associate Degree Nursing58	Enrollment, Concurrent High School and College
Associate in Arts Degree	Entrance Examinations
Associate in Science Degree 16, 22	Environmental Science46
Associated Students	Evening College
Astronomy	Expenses
Athletics	Extension Courses, Credit for25
Courses62	External Campus
Intercollegiate17	F
Attendance and Automatic Withdrawals21	
Automotive Body and Paint33	Facilities
Automotive Technology33	Faculty8
Awards, Scholarship16	Faculty, Emeritus
n n	Family Educational Rights & Privacy Act of 1974
В	Fees
Biology	Financial Assistance
Board of Trustees6	Fire Science
Bookstore	Food Services
Botany34	Foreign Students
Business	French
Dustress	1 tellen
C	G
CLI	C 151 1
Calendar4	General Education
California State Colleges	Requirements at IVC22
Carpentry	Requirements for California State Colleges
Certificate Programs	Requirements for University of California25
Chairpersons, Division7	Geography
Changes in the Catalog	Geology48
Charges	German
Chemistry38	Gerontology49
Class Schedules, Change in	Grade Points
College Center17	Grade Reports, Semester
Competency, State Requirement	Grades
Cooperative Work Experience	Grading System
Correspondence & Extension Courses, Credit for25	Graduation Honors
Cosmetology	Graduation Petition21

Graduation Requirements	Motion Picture Production 56 Music 56
Graphic Arts	
Grievance Procedure	N
Guidance Services	Natural Science58
н	Night Classes
17 - 49 - 11 1	Non-Discrimination Policy
Health Assistant50	Nursing58
Health Education50	Admission Policies
Health Technologies	Advanced Placement
Hearing Process 21 Heavy Machinery 51	Application Policies
High School, Attendance of Student	Nursing, Associate Degree
Honors	Nursing, Continuing Education
Summer	Nursing, Graduates of Hospital Diploma Schools60
Vocational	Nursing, Health Assistant
High School & College, Concurrent Enrollment15	Nursing, Registered59
History51	Nursing, Vocational60
History of College13	0
Honor List, President's16	0
Honors Program52	Occupational Curricula
Honors, Graduation	Out-of-State Students17
Honors Program for High School Students	D.
Honors, Scholastic	r
Humanities	Parking Permit
numan relations	Petition for Graduation22
ľ	Petition Process21
Immerial Valley College	Philosophy
Imperial Valley College	Photography60
Individual Studies Program	Physical Education
Institutional Afflications	Exemptions
Institutional Requirements	Requirements
Intercollegiate Sports	Physical Science
Italian	Physics
3	Physiology
J	Political Science
Journalism	President's Honor List
The state of the s	Probation
L	Proficiency Enrollment
Lack of Progress, Dismissal	Program
Lack of Progress, Probation	Changes
Language, Foreign Courses	Cooperative Work Experience
Learning Supportive Services	Evening College 15 External Campus 15
Legal Assistant	High School Students
Liberal Studies Major	Physically Limited
Library Technician55	Transfer
Limitations, Study List	Types
Location of College	Provisional Status
	Psychology
M	R
	· ·
Majors	Recreation
Major Requirements	Refund Policy
Mathematics	Registered Nursing
Graduation Requirements	Regulations
Media Center	Reports, Semester Grade
Meyer Center	Requirements for Four-Year Institution
Military Classes	Requirements, Institutional
Military Credit	Requirements, State Competency
Mission and Goals, College14	Residence Requirements

	S
Scholarship	19
Grading System	
Honore	
Scholarshine	
Scholastia Diaminut	
ocholastic Dismissal	
ocholastic Frobation	
Contracted Older Paparite	
out vices Credentials	
Choir reilli Classes	
Oriden Dai	
occidi ocience	
Society, Honor	16
Sociology	
Spanish	68
Special Studies Program	69
Specialist Condensated	71
opeciansi Crederitiais	00
opecon	
orate Competency Requirement	nts23
Ciddeiit	
Activities	17
DOOMSTOLE	1 W W 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Conduct	
Study List Changes	
Study List Limitations	
Subject Area Requirements	
Summer Session	23
Summer High School St. J.	23
Sammer, riight School Students	
	Г
Teacher Aide	21
redefier Freparation	
- runscripts	2.2
Transition Credit	A CONTRACTOR OF THE PROPERTY O
Transfer Requirements	26
Trustees, Board of	25
Tuition	6
Tuition	
ti	i e
University of California	
Upper Division Credit	20
	20
v	
Veterans	
Credit for Military Training	
Vocational Curricula Vocational High School Students	
Voluntary Withdrawal	21
w	
**	
Water Treatment	
realing recimology	
Withdrawal, Automatic	72
Withdrawal Grades	21
Withdrawal Grades	
THE CANDI CITACIES	
The Carlette	
Work-Study Program	
z	
Zoology	79

Typesetting: Karen Stiegler Graphics: Jaime Servin Printing: Enrique Monroy Binding: George Trujillo Cover Design: Jaime Servin

Printed by Imperial Valley College, Imperial, California 8/85

