

THE COLLEGE COMMITMENT

The staff of Columbia College is committed to providing the highest quality educational programs and services. As part of that commitment, we make the following pledge to the students and community we serve:

We believe that the individual student is the cornerstone of the college and that each has unique talents, interests, needs and strengths. Because individual students learn in different ways and at different rates, we remain flexible in our teaching methods to encourage each student's greatest potential.

We emphasize how to think rather than what to think. Critical inquiry and creative problem-solving are incorporated in all appropriate courses and activities. Creativity, imagination and innovation are encouraged and supported.

We support the process of continuous learning and meaningful change. Our general education program will help students to redefine their goals and aspirations as they change.

We realize that classroom time is only one aspect of the students' education and only one of our responsibilities. We promote support activities, such as counseling, advising, and tutoring which contribute to one's growth.

Because we believe each student grows with participation in the teaching-learning process, we encourage students to be active participants and contributors throughout college life in areas of their own choosing.

We will maintain a balance between individual rights and social responsibilities in our relationships with our students and the community we serve. Respect for the individual will be maintained in all situations. We will not allow personal biases to affect our teaching, grading, or treatment of an individual or group.

We find student government to be best when it is involved in meaningful issues within the college community. Student government is informed of college concerns, activities, and issues. Its involvement is an important part of the decision-making process.

We will maintain the comprehensive nature of the community college. A broad general education and a variety of majors are offered. Academic, vocational, basic skills, and continuing education are offered in response to the needs of the community.

We will be specific in the course content, grading practices and attendance requirements for each course. These expectations are clearly communicated in the orientation to each course. Students are held responsible for meeting college standards and are graded according to their performance. We are available to assist each student's studies beyond the classroom. Posted office hours are maintained, and additional time will be made available by mutual agreement between the student and staff.

We will constantly evaluate the college curriculum for academic, vocational and community needs. Formal agreement with high schools and universities assure transfer students a smooth transition from high school to the state colleges and university system through our institution. Community advisory committees are consulted to make certain our vocational subjects are training for the job market, and our community services and continuing education classes are meeting local needs.

Finally, we believe that if the student recognizes the commitment that Columbia College has made and the student is willing to give to the college in return, the student's education will be positive, enjoyable and provide a lasting foundation for continued growth.

COLUMBIA COLLEGE

P.O. Box 1849 Columbia, California 95310 (209) 533-5100

1988-89



YOSEMITE COMMUNITY COLLEGE DISTRICT

PRICE \$2.00

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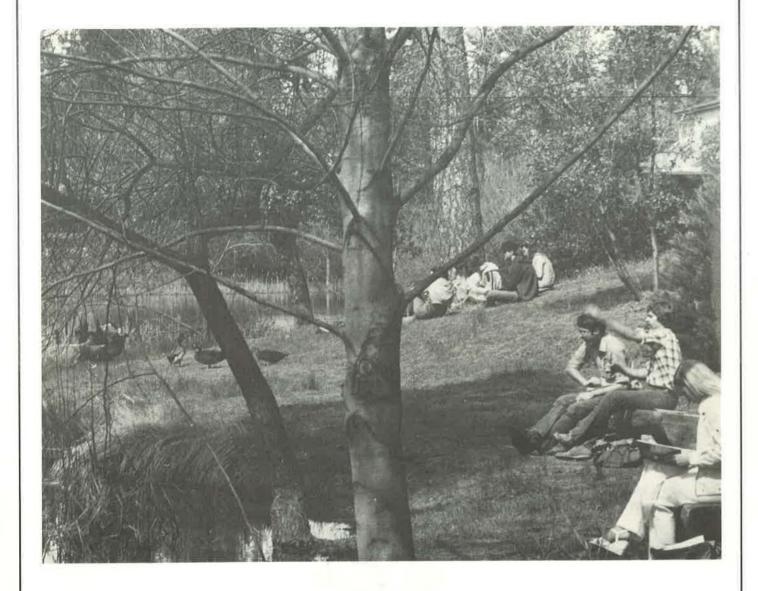


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COLUMBIA COLLEGE 1988-89 ACADEMIC CALENDAR Fall Semester 1988

Fall Registration:	
August 8	Returning Students
August 16	Instruction Begins Last Day to Enter a Class Without Instructor's Written Approval
August 29	Last Day to Enter a Class With Instructor's Written Approval
August 29	Last Day to Apply for Refund
September 5 September 12 Septem	
September 21	CR/NC or Letter Grade
October 3	(30%) Deadline for Filing for Graduation & Certificate for Fall Semester
November 17	
November 24-25	Thanksgiving Holiday
December 16	Fall Semester Ends
December 16 December 19-January 6	
December 19-January 6 Spring Se	
December 19-January 6	Winter Recess mester 1989 Continuing Students
December 19-January 6 Spring Ser Registration: December 6-8	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King
Spring Ser Registration: December 6-8 December 7 & 8 January 9 January 16	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King Holiday Last Day to Enter a Class Without Instructor's
Spring Ser Registration: December 6-8 December 7 & 8 January 9 January 16 January 13	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King Holiday Last Day to Enter a Class Without Instructor's Written Approval Last Day to Enter a Class With Instructor's Written
Spring Ser Registration: December 6-8 December 7 & 8 January 9 January 16 January 13	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King Holiday Last Day to Enter a Class Without Instructor's Written Approval Last Day to Enter a Class With Instructor's Written Approval
Spring Ser Registration: December 6-8 December 7 & 8 January 9 January 16 January 13 January 23	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King Holiday Last Day to Enter a Class Without Instructor's Written Approval Last Day to Enter a Class With Instructor's Written Approval Last Day to Apply for Refund Last Day to Withdraw Without a "W" Showing
Spring Ser Registration: December 6-8 December 7 & 8 January 9 January 16 January 13 January 23 January 23	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King Holiday Last Day to Enter a Class Without Instructor's Written Approval Last Day to Enter a Class With Instructor's Written Approval Last Day to Apply for Refund Last Day to Withdraw Without a "W" Showing on Permanent Record Lincoln Day Holiday Washington Day Holiday Last Day to Elect for CR/NC or Letter Grade
Spring Ser Registration: December 6-8 December 7 & 8 January 9 January 16 January 13 January 23 February 3 February 10 February 20	Winter Recess mester 1989 Continuing Students Returning and New Students Instruction Begins Martin Luther King Holiday Last Day to Enter a Class Without Instructor's Written Approval Last Day to Enter a Class With Instructor's Written Approval Last Day to Apply for Refund Last Day to Withdraw Without a "W" Showing on Permanent Record Lincoln Day Holiday Washington Day Holiday Last Day to Elect for CR/NC or Letter Grade (30%)

	April 13	Spring Semester Ends
		ession 1989
3	June 12 July 4 July 21	Instruction Begins Independence Day Holiday Six Week Summer Session Ends
		pertaining to advisement, tions, as well as other dates
	1988	1989
	JULY 1 2 3 4 5 6 7 8 9	JANUARY 1 2 3 4 5 6 7 8 9 10 11 12 13 14
	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
ıt	ALICUST	FEBRUARY 1 2 3 4
-	AUGUST 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
		MARCH
	SEPTEMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 20 21 22 23 24 25 26 27 28 29 30 31
		APRIL
3	OCTOBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22
3	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	
	NOVEMBER	MAY 1 2 3 4 5 6
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
	DECEMBER	JUNE
S	1 2 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

BOARD OF TRUSTEES YOSEMITE COMMUNITY COLLEGE DISTRICT



* Allister A. Allen Area 2, Patterson



*† Ian Hardie Area 3, Modesto



*† Grant E, Bare, M.D. Area 3, Modesto



* Robert Cardoza Area 3, Modesto



Delsie Schrimp Area 3, Riverbank



Abe Rojas Area 3, Turlock

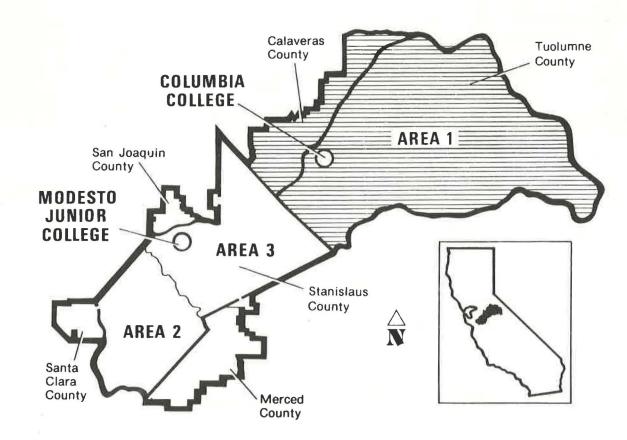


* Nancy Rosasco Area 1, Sonora

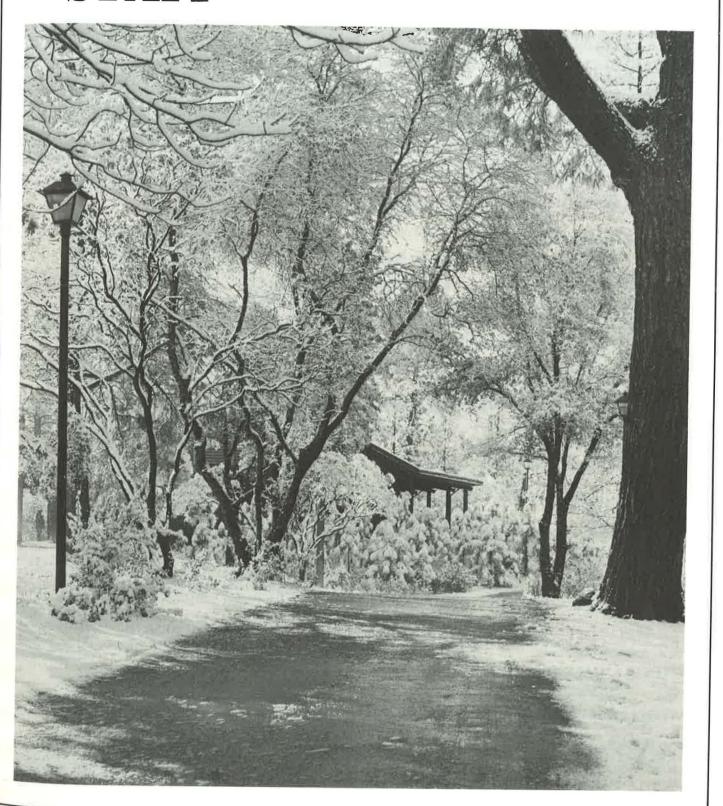


Dr. Tom Van Groningen Chancellor, Secretary to Board of Trustees

* Past President † Charter Board Member



COLLEGE STAFF



CERTIFICATED STAFF

(Date of District appointment follows name.)

Mathematics/Physics **DENNIS LEE ALBERS (1985)** B.S., University of Nebraska

M.S., University of Nebraska Ph.D., University of Nebraska

Physical Education, **DENNIS P. AYE (1985)** Basketball Coach B.A., St. Ambrose College M.A., University of Connecticut

Art JOEL C. BARBER (1967)

B.A., Willamette University M.A., University of Oregon

Physical Education JOSHUA E. BIGELOW (1981) A.A., Columbia College

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

Counselor, ELSIE M. BRUNO (1980) Articulation Officer B.S., University of California, Los Angeles M.S., California State University, Los Angeles

Art DALE L. BUNSE (1975)

B.A., Willamette University M.F.A., Arizona State University

ROSS A. CARKEET, JR. (1968) Natural Resources, Biology A.A., Modesto Junior College

B.S., University of California, Berkeley M.S., California State University, Humboldt

Music JOHN R. CARTER (1984) B.M., Chapman College M.M., Westminster Choir College

W. DEAN CUNNINGHAM (1979) President

B.A., Doane College M.A., Illinois Wesleyan University Ed.D., Arizona State University

English, EDWARD C. DOELL JR. (1973) Photography A.A., Foothill Junior College

B.A., California State University, San Francisco M.A., California State University, San Francisco

History, Political Science RICHARD L. DYER (1969) A.A., Mount San Antonio College

B.A., LaVerne College M.A., California State University, Los Angeles

Coordinator of RONALD L. ERICKSON (1981) Hospitality Management

Physical Education. ROBERT H. GIBSON (1970) Coordinator of A.A., Graceland College Adult Fitness Program B.A., Central College M.A., California State University, San Jose

Ed.D, University of Central Arizona

ARLENE S. GIORDANO (1976) Psychology A.B., Hunter College

M.A., University of California, Berkeley Ph.D., University of California, Berkeley

English JON M. HAGSTROM (1962)

A.A., Shasta College B.A., California State University, Chico M.A., University of the Pacific

College Nurse DELORES A. HALL (1987)

B.S.N., University of South Carolina M.S.N., University of South Carolina

Learning Disabilities PATRICIA HARRELSON (1982) Specialist B.S., California State College, Stanislaus Music

ROD D. HARRIS (1979) A.A., Fort Steilacoom Community College B.A.E., Pacific Lutheran University M.M., Pacific Lutheran University

Anthropology, Psychology JAMES R. HASTINGS (1973)

A.A., American River College B.A., California State University, Sacramento M.A., California State University, Sacramento

Physical Education TERRY J. HOFF (1974)

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

Business JOHN L. HOLLOWAY (1981)

A.A., Orange Coast Junior College B.A., California State University, San Francisco M.B.A., California State University, San Francisco

Earth Science, **TOM G. HOLST (1974) Computer Science** A.B., Augustana College M.N.S., University of South Dakota

Ed.D., University of Northern Colorado Counselor FLOYD L. HOPPER (1976) B.A., University of Nevada

M.A., California State University, Long Beach Sociology NANCY T. HORNBERGER (1974)

B.A., University of Rochester M.A., University of the Pacific

Coordinator of Learning Skills JAMES R. KINDLE (1974)

B.S., Wisconsin State College M.A., Rockford College M.A., Colorado Springs College

Business, Economics **DOUGLAS E. KOTAREK** (1974) B.S., Northern Illinois University

M.B.A., Northern Illinois University Assistant Dean WALTER L. LEINEKE (1968) of Instruction B.A., California State University, Sacramento M.A., California State University, San Francisco

Dean of Instruction **RAYMOND D. LIEDLICH (1981)** B.S., Bowling Green State University

M.A., California State University, Los Angeles Director of EOPS and PAUL W. LOCKMAN (1981) Disabled Student Programs A.A., Fresno City College

B.A., California State University, Fresno M.A., California State University, Fresno

JAMES ROBERT MENDONSA (1981) Search and Rescue B.A., California State College, Stanislaus M.A., California State College, Stanislaus

English JOHN C. MINOR (1970) B.A., Linfield College M.A., University of Washington

JOHN R. NELSON (1984) B.A., San Diego State University

M.A., University of Arizona

English, Speech CHESTER H. PALMER (1976) B.A., University of Arizona

Fire Technology

Computer Science

FRED J. PETERSEN (1981) B.A., California State University, San Jose M.A., University of Washington

DAVID G. PURDY (1971) Drama (Sabbatical Leave B.A., California State University, San Jose 1988-89) M.A., California State University, Fresno

Biological Science BLAINE D. ROGERS (1972) A.A., Bakersfield College B.A., California State University, Humboldt M.A., California State University, Humboldt

Mathematics **MELBORN N. SIMMONS (1969)** B.S.E., Henderson State College M.S., University of Arkansas

Director of **RAYMOND L. STEUBEN (1976)** Library Services/ B.A., University of California, Santa Barbara M.L.S., University of California, Los Angeles I.M.C. **JUDITH A. STRATTAN (1987)**

Dean of Student Services

Physical Education

Business

B.S., Indiana University M.S., Indiana University

V. PETER SULLIVAN (1961) A.A., Modesto Junior College

B.A., Pepperdine University M.A., California State University, Sacramento

JANET M. SWEENEY (1984) Business B.A., San Jose State University

M.A., California State College Stanislaus **CANDACE L. WILLIAMSON (1979)**

B.A., California State University, Humboldt M.A., California State University, Humboldt **DAVID I. WILLSON (1975)**

Automotive Technology B.S., California Polytechnic State University, San Luis Obispo M.A., California Polytechnic State University, San Luis Obispo

WILLIAM H. WILSON, JR. (1974) A.A., Solano College

B.A., San Jose State College M.S., California State University, Hayward

CLARENCE O. WOLGAMOTT, JR. (1971) Chemistry B.S., Tennessee Technological University M.A., Tennessee Technological University

FACULTY EMERITI

PAUL K. BECKER (1971) **Dean of Student Services** A.B., Western State College of Colorado (1971-1987) M.A., Stanford University

L. FRANCES CULLEN (1971) Psychology, Counselor, B.S., University of California, Los Angeles Student Activities M.S., University of Southern California (1971-1983)Ed.D., University of Southern California

MARION C. EVANS (1955) **Health Occupations** R.N., St. Therese School of Nursing (1968-1983)B.V.E., California State University, Sacramento

McKINLEY FROST (1970) Welding Technology A.A., Columbia College (1970 - 1985)

ROBERT H. HAMILTON (1968) History, Political Science, A.B., University of California, Berkeley Humanities Th.M., Dallas Theological Seminary Philosophy M.A., University of California, Berkeley (1968-1985)

FRANCES V. HEGWEIN (1974) **Health Occupations** R.N., South Shore Hospital (1974-1985)

THELMA A. JENSEN (1968) **Health Occupations** R.N., Highland School of Nursing (1968-1984)A.A., Columbia College

DONALD A. JONES (1968) Biological Science A.A., San Francisco City College (1968-1985)A.B., California State University, San Francisco M.A., California State University, San Francisco

MATILD M. KAMBER (1976) Philosophy B.A., American College for Girls, Istanbul, Turkey (1976-1982)M.A., University of Istanbul

JERRY D. LYON (1971) Rusiness A.A., Edinburg Junior College (1971-1984)B.B.A., University of Texas M.A., Abilene Christian College

BARBARA C. PAINTER (1969) Counselor A.A., Modesto Junior College (1969-1980)A.B., California State University, San Jose M.A., University of the Pacific Ed.D., University of the Pacific

HARVEY B. RHODES (1947) President (1967-1979) A.B., California State University, San Jose M.S., University of Southern California Ed.D., University of California, Berkeley

RICHARD H. ROGERS (1968) A.B., California State University, Fresno M.A., California State University, Fresno

(1968-1982)

JOHN R. ROSS (1970) B.A., University of the Pacific

SIGRID A. ANDERSEN (1985)

Health Education, Health Occupations, Search and Rescue (1970-1987)

Business

Clerk,

CLASSIFIED STAFF

(Date of District appointment follows name.)

KATHLEEN L. ABBOTT (1976) Clerk, Business Services ROSS L. ALDRICH (1975)

Performing Arts Production Technician Instructional Aide, Learning Skills

and Budget Manager

Instructional Aide,

Bus Driver/

Account Clerk,

Equipment Mechanic

Media Assistant, Library

Media Assistant, Library

Instructional Aide,

Instructional Aide,

Mathematics

Bookstore

Custodian

Business

Secretary/

SHERRYL A. BAHTEN (1986)

Admissions and Records MERLIN BART (1974) Instructional Aide. Auto Technology

DORYENE M. BENTLEY (1975) Secretary. Instructional Materials Center PATRICIA BERHANE (1986) Clerk, Admissions

and Records **DEBORAH K. BOSWELL** (1987) Typist Clerk, Disabled Student Services

ARTHUR BUSALACCHI (1982) Lead Safety Patrolperson, Fire Chief D. LARUE BUSALACCHI (1969) **Business Office**

WILLIAM CHAMBERS (1987) Disabled Student Services

CLARENCE E. CLARK (1971) Maintenance L. C. CRAIN (1976) Custodian DOROTHY A. DANZ (1965)

Secretary, Dean of Student Services **DENISE F. DEATSCH (1978)** Secretary, Instruction Office

TERRILL O. DEATSCH (1975) Groundskeeper

DANIEL DEVITT (1984) Supervisor, Food Services

CYNTHIA K. FRAGUERO (1987)

STEVEN FROST (1979) WILLIAM J. GAISER (1970) HAZEL GARAVENTA (1984)

LINNETT C. GREELEY (1975) LAUREL M. GRINDY (1981)

DORIS I. GOLDSON (1970)

DOLORES C. HALL (1971) Manager, Bookstore **NORINE D. HOLMES (1978)**

DWAIN JACK (1974) RONALD D. JACKSON (1976) JANICE M. JORN (1974) FRANCES K. LEONE (1983)

Secretary, Assistant Dean of Instruction Skilled Maintenance Worker Custodian

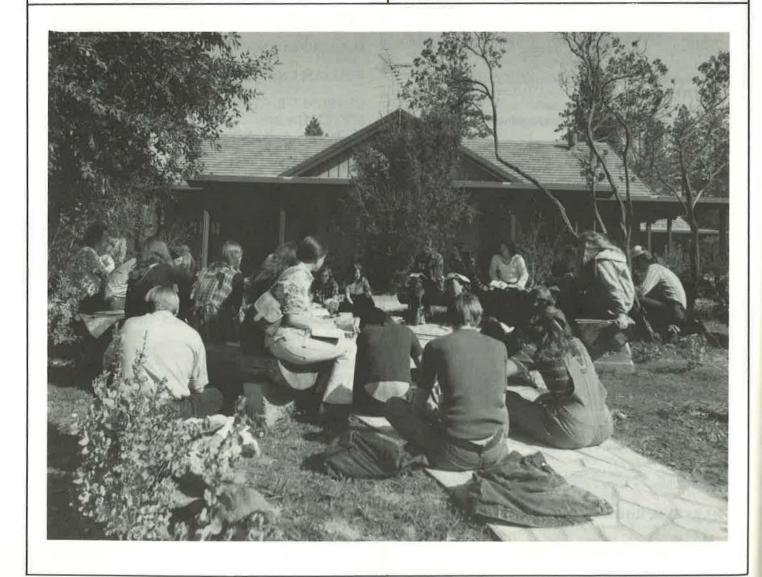
Public Information Writer Instructional Aide, Computer Science, Earth Science, Psychology

WENDY LINK (1984) Media Assistant, Library A.V.

KENNETH R. LUCAS (1967) Supervisor, Transportation/Grounds **DOROTHY A. MAECHLER (1981)** Accompanist/ Instructional Aide, Music **TIMOTHY MANN (1983)** Athletic Equipment Attendant Typist Clerk, **ARDIS MARTINEZ (1984)** Student Services **ANDREW B. MAURER (1974)** Graphic Artist, Instructional Materials Center JOHN H. MILLER (1972) Supervisor, Buildings and Maintenance **REBECCA MILLER-CRIPPS (1987)** Clerk, Admissions and Records NANCY M. MYERS (1982) Media Assistant, Library SANDAE D. OVERHOLTZER (1985) Tutorial Coordinator, Learning Skills PATRICIA PANTALEONI (1985) Secretary, President **SUZANNE B. PATTERSON (1988)** Instructional Aide, Disabled Student Center LUIS C. RAMIREZ (1970) Supervising Custodian

RONALD R. ROACH (1970)

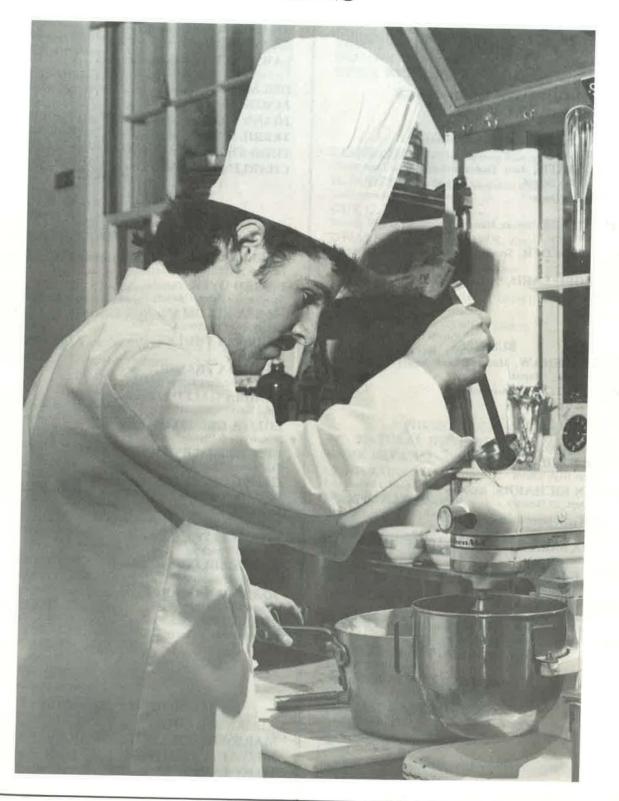
SALLY SCHOETTGEN (1981) Officer, Financial Aids, Veterans' Affairs, Scholarships and Awards **JACQUELINE J. SEYBOLT (1985)** Manager, Food Services WILLIAM M. SHANKEY (1982) Safety Patrolperson **BARBARA SMITH (1986)** Food Services Worker **KATHLEEN SMITH (1984)** Evaluation Technician, Admissions and Records JILL L. SOUTHARD (1982) Instructional Aide, Physical Education PATRICIA C. THOMAS (1972) Account Clerk, **Business Services WILLIAM R. THORPE (1985)** Electronic Technician CAROL A. VAUGHN (1974) Typist Clerk, Instructional Materials Center **BERNICE A. WADDELOW (1970)** Secretary, Dean of Instruction **CHRISTINE M. WALKER (1978)** Instructional Aide, Learning Skills **ADELE WIKNER (1985)** Media Assistant, Library JAMES B. WOOD, SR. (1977) Custodian



Printing Technician

Instructional Materials Center

ADVISORY COMMITTEES



ADVISORY COMMITTEES

On a voluntary basis, regional representatives of business, the professions, industry, government, labor and the community-at-large assist Columbia College in determining the needs and evaluating the performance of many of its programs. These processes are critical to the future overall direction of the College, the appropriateness of services to special student populations, and the relevance of vocational training to the world of work. These individuals provide an invaluable service to the administration, faculty, and present and future students and, for that, the College is deeply grateful.

AUTOMOTIVE TECHNOLOGY

CHARLIE CRIST, Service Manager Kelley Motors

STEVE KOEHLER, Auto. Tech. Instructor Bret Harte High School

STANLEY SMITH, Auto. Tech. Instructor Sonora Union High School

ED SUNDAY, Owner

Sun Automotive

LOGAN MILLER, Service Manager

Mother Lode Motors

FRED SCHROEDER, Service Manager Hammond Ford

MARTY ROBILLARD, Owner Marty's Auto Service

BUSINESS

LYNN BRADSHAW, Medical Records Supervisor Sonora Community Hospital

KAREN ETHIER, Business Instructor Sonora Union High School

TOM FIRTH, Manager

Lucky Stores

CLAY MADDOX, Accountant

GEORGE PERRY, R.O.P. Instructor Sonora Union High School

MARILYN RICHARDS, Secretary

California Dept. of Forestry

KEN ROY, Manager Longs Drugs, Inc.

PATRICIA SAKASITZ, Office Manager Foothill Medical Group

LINDA GRANT, Office Services Stanislaus National Forest

MARSHA THORLAKSON-DORMAN,

Employment Program Representative Employment Development Department

JERRY YOUNGSTROM, Data Processing

CARDIAC REHABILITATION PROGRAM

PENNY ABLIN, M.D.

DANNY ANDERSON, M.D.

LYNN AUSTIN, M.D.

WARREN BORGQUIST, M.D.

JAMES COMAZZI, M.D.

CARLA DAVIS, R.N.

TED R. FERNISH, M.D.

RUSSELL HOENES, M.D.

JAMES R. HONGOLA, M.D.

DIXIE HUKARI, R.N.

GARY JOHNSON, M.D.

LAWRENCE LONG, Administrator

Tuolumne General Hospital

DEE MINNEY, R.N.

JAMES MOSSON, M.D.

JOANN RIOS, R.N. TERRIL SPITZE, M.D.

TODD STOLP, M.D.

CHARLES WALDMAN, M.D.

CHILD DEVELOPMENT PROGRAM

EVELYN CONDON, Executive Director

Infant/Child Enrichment Services

PIERKO DYER, Director

Summerville Parent/Nursery School

NANCY FELDMAN, Home Economist University of California

BARBARA FOULKS, Director

Head Start

MELINDA FRASER, Aide Infant/Child Enrichment Services

SANDRA GALLOP, Instructor

Head Start

LOLITA GRIFFITHS, Coordinator

Senior/Youth Partnership

GILL GRIMSLEY-MCKEE, Coordinator Tri-County Consortium for Special Education

CAROL GUZZETTA, Director/Instructor Little Angels Preschool

DONNA REHDER, Instructor

Discovery Preschool

BILL SULLIVAN, Director

Discovery Preschool

KATHY SULLIVAN, Director

Discovery Preschool

JOAN WANAMAKER, Counselor Sonora Union High School

JUNE YAPP, Director Yapp's Learning Center

COMMUNITY EDUCATION

ALMARENE COOK
MARJORIE DOE
LORRAINE KILLOUGH

RACHEL SCOTT MARJORIE WARD WRIGHT WILLIAMS

MARY LAVERONI

COMPUTER SCIENCE

BOB BECK, Accountant

BINKY DOHMS, Office Manager

Computer Software Designer

PETER DOHMS, Vice President Condor Mining Mt. Inc.

DWAYNE MCDONALD, Assistant Superintendent Tuolumne County Schools

JIM WAGONER, Data Processing/Instructor Mother Lode Data Service

JERRY YOUNGSTROM, President Seasoft Corporation

ALLEN SPENCER, Supervising Computer Specialist United States Forest Service

DISABLED STUDENT SERVICES

DOUG BOWSER, Tri-County Consortium Tuolumne County Schools

BEVERLY BRITTS, Teacher, Hearing Impaired Sonora Elementary School

HAL DAVIS, Voc. Rehab. Counselor Department of Rehabilitation

WAYNE FRANCIS, Student

Columbia College

JIM KINDLE, Director, Learning Skills Center Columbia College

SANDEE KLUDT, Director of Special Education Tuolumne County Schools

DONNA LARSON, Representative Social Security Administration

JANICE LUBECK, Case Manager Valley-Mt. Regional Learning Center

DR. CHARLES McBANE, Optometrist General Practice

FRANK McNALLY, Retired Judge JEAN McNALLY, Physical Therapist

DRAFTING

NEIL BURCKART, President Burckart Construction Company

DONALD GROVER, Architect Donald Grover and Associates

GEORGE JACKSON, Engineer Calaveras Asbestos. Ltd.

MICHAEL PEREZ, Engineering Technician

United States Forest Service

JERRY SLINKARD, Vice President

Raymond Vail and Associates

EMERGENCY MEDICAL SERVICES

CAROL WILEY, R.N. Tuolumne General Hospital

JEFF REAGOR, Coordinator Manpower and Training San Joaquin EMS Agency

WILLIAM STIERS, M.D. Sonora Community Hospital

VALERIE WHEELER, R.N. Sonora Community Hospital

CHARLOTTE STEER, Coordinator Emergency Medical Systems for Calaveras County

BILL CALDERA, Manager Tuolumne County Ambulance Service

ROMEL MATHIAS, R.N. Sonora Community Hospital

EXTENDED OPPORTUNITY PROGRAMS AND SERVICES

PATRICIA BERHANE, Admissions and Records Clerk
Columbia College

ELSIE BRUNO, Counselor Columbia College

WALLACE DAY, Tuolumne/MiWuk Tribal

SALLY SCHOETTGEN, Financial Aid Columbia College

JACKIE JACKMAN, Teacher Vallecito High School

SHIRLEY PHILSON, Employment Services Employment Development Department

VIOLA WESSELL, Community Representative

FIRE TECHNOLOGY

JAMIE CRABTREE, Training Director Tuolumne County Fire Department

D. SCOTT NEWMAN, Battalion Chief California Dept. of Forestry

GUY C. MILLS, Chief Sonora Fire Department

DWAYNE (DAVE) BROWN, Chief

Angels Camp Fire Department

MERRITT LOVEJOY, Dispatcher

United States Forest Service

LEONARD SHEPHERD, Training Director
California Dept. of Forestry

ROBERT SIGNOR, Training Director

California Dept. of Forestry

LARRY COTTON, Chief
Sierra Conservation Center

FOREST TECHNOLOGY/ NATURAL RESOURCES TECHNOLOGY

MARK BEVAN, Forestry Consultant

CHRIS CONRAD, Forester Fibreboard Corporation

WAYNE HARRISON, Associate State Park Resource Ecologist

Calaveras Big Trees State Park

JOYCE MOUSSEAU, Cultural Technician
United States Forest Service

JIM MADDOX, Wildlife Biologist California Dept. of Fish and Game

TIM NEELEY, Chief Ranger Columbia and Railtown State Historic Parks

JIM OWEN, Unit Ranger California Dept. of Forestry

RICHARD PLAND, Forester/Logging Supt. Fibreboard Corporation

BRIAN QUELVOG, Fishery Biologist California Dept. of Fish and Game

WILLIAM J. SUEHOWICZ, Chief Park Ranger New Melones Lake

DON WARD, Forester
California Dept. of Forestry

STEVE WATERMAN, Public Information Officer United States Forest Service

FOSTER PARENT TRAINING PROGRAM

JANET AMBROSE, Coordinator Foster Parent Training Program Amador and Tuolumne Counties

ARLENE MARTIN, Foster Parent

STEVE CLARD

Tuolumne County Sheriff's Department

JOY MCCLURE

Department of Social Welfare

EVELYN CONDON

Infant and Child Enrichment Services

PEGGY DUTEMPLE

Tuolumne County Dept. of Social Services

TERRY BEAUDREAU

Calaveras County Dept. of Social Services

NANCY FELDMAN

University of California Coop. Extension

NANCY GOODMAN,

Tuolumne County Dept. of Social Services

PAUL JOHNSON

Tuolumne County Schools

MARY LOUIS

Calaveras County Dept. of Social Services

GEORGE LOOMIS

Calaveras County Emergency Shelter

BILL MITCHELL

Tuolumne County Probation Department

MARGARET SCHULTZ

Tuolumne County Foster Parent

WILLIAM SCHULTZ

Tuolumne County Foster Parent

ANNE HUNTER, Social Worker

Drug/Alcohol Counseling

LARRY WADE

Calaveras County Probation Department

NAOMI STEINFELD, Social Worker

CINDY STEVENS

Human Resource Council

MARGARET HINCHLIFF

Tuolumne County Foster Parent

SUSAN WASIK

Tuolumne County Foster Parent

GEORGIA MCKEE

Mariposa County Foster Parent

MAGGIE HENDERSON

Tuolumne County Probation Department

CANDACE KATOSIC

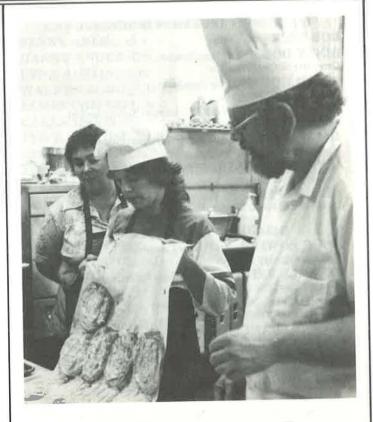
Mother Lode Job Training

RICK MANDERS

Calaveras County Probation Department

BILL WILSON, Counselor

Columbia College



HOSPITALITY MANAGEMENT

LEO BALDONADO, Owner

La Sierra Taqueria

CARL HAMMER, Sales Representative

Major Sysco

TIM NEELEY, Chief Runger

Columbia/Railtown State Historic Parks

LAURIE HEDLICKA, Manager

Sonora Town House Motels

ROBERT DEVINCK, Owner

Hemingway's Restaurant

DAN CUENO, Owner

Black Bart Inn

MARILYN HAMILTON, Vice President/Manager

Security Pacific National Bank

MEDICAL PROFESSIONS

CLARK BURTON, D.D.S.

MIKE GHIORSO, Chief Pharmacist

Sonora Community Hospital

GAIL GEE, Secretary

Tuolumne County Medical Society

GARY HINMANN, Pharmacist Altaville Drugs

DIXIE HUKARI, Inservice Director

Sonora Community Hospital

LAWRENCE LONG, Chief Administrator

Tuolumne General Hospital

PHYLLIS MANFORD, Inservice Director Tuolumne General Hospital

MARILYN NISHI, Physical Therapist

Self-Help Therapy Programs

MAURICE ROLLINS, D.D.S.

LARRY WARNICK, Physical Therapist

Tuolumne General Hospital

PRESIDENT'S

JACK AMUNDSEN, Retired California State Forest Ranger

DR. ROBERT BACH, Superintendent Bret Harte Union High School District

DICK BARGER, Retired

MARJORIE COFFILL, Community Leader

BLAINE CORNELL, Supervisor

U.S. Forest Service

CARLO DE FERRARI, Retired
Tuolumne County Clerk and Auditor, Historian

MARJORIE GEISZLER, Superintendent Calaveras County Schools

MARILYN HAMILTON, Vice President Security Pacific Bank

JIM HILDRETH, Realtor Sonora City Councilman

SUZANNE ANDERSON, Area Superintendent Columbia/Railtown State Historic Parks

DAVID BAKER, Administrative Officer County of Tuolumne

MIKE Q. JONES, General Contractor

REV. JAMES C. MC CLUSKEY, Pastor Church of the 49'ers

HARVEY C. MC GEE, Editor-Publisher The Daily Union Democrat

DR. ORVILLE MILLHOLLIN, Superintendent Tuolumne County Schools

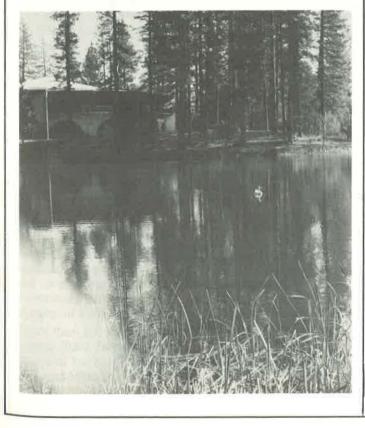
RICHARD ROGERS, Retired Columbia College Business Instructor

MILTON SCHROEDER, Retired Manager, Pacific Gas and Electric Co.

IRVING J. SYMONS, Owner Hales and Symons

DR. ROGER WAHLMAN, Dentist

CARY WINGO, Attorney



REAL ESTATE

KEN CARPER, Owner

Carper Realty

GWYN DURANDT, President Calaveras County Board of Realtors

BABE GIBSON, Realtor

Mother Lode Real Estate

JOHN GLEASON, Realtor

Wildwood Properties

JIM HILDRETH. Owner

Park Place Realty

SHARON NUTT, Realtor

Henrietta Realty

JOANNE RIGGS,

Branch Manager/Savings Supervisor Washington Savings and Loan

CLARK SEGERSTROM, Owner

Segerstrom Real Estate

SEARCH AND RESCUE

MARK BENNET, Coordinator Northern California Law Enforcement

Office of Emergency Services

JAMIE CRABTREE, Training Officer
Tuolumne County Fire Department

HENRY GILLIAM, Assistant Chief/Training Div. U.C. Davis Fire Department

SCOTT NEWMAN, District Ranger California Division of Forestry

JIM SCRUGGS, Deputy Sheriff/SAR Officer

Tuolumne County Sheriff's Office **DON STONE,** Underground Leader

Tuolumne County Search and Rescue

KIM AUFHAUSER, Park Ranger Yosemite National Park

TEACHER AIDE

SHARON BENINCASA, Teacher Aide Sonora Elementary School

PATRICE HENSON, Special Ed. Substitute Aide Tuolumne County Schools

MARY JOHNSON, Kindergarten Teacher Sonora Elementary School

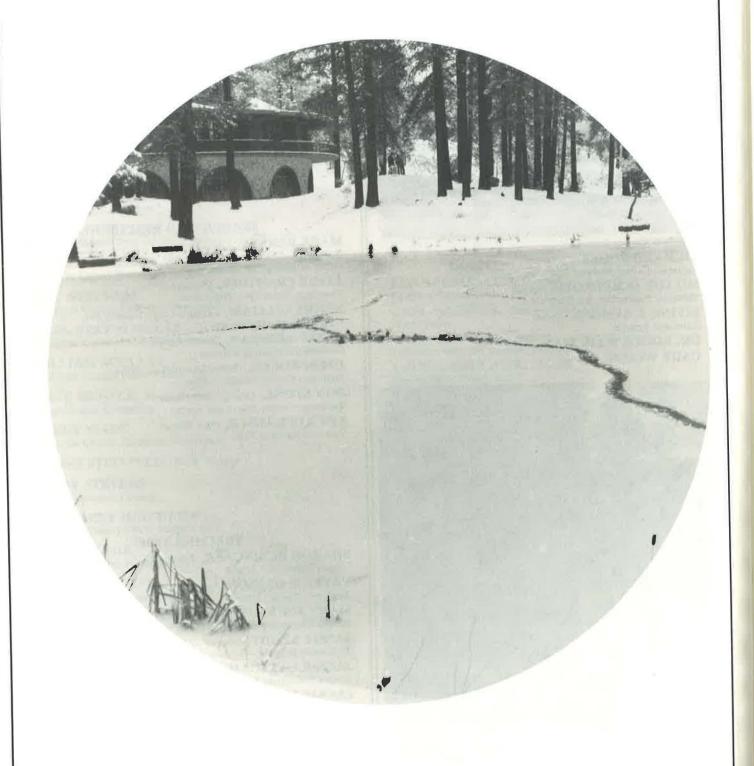
SANDY KLUDT, Director of Special Ed. Tri-County Schools

JACKIE LATTUADA, Kindergarten Teacher Sonora Elementary School

JACKIE MIEROP, Resource Teacher Tuolumne County Schools MADELINE SHARP, Principal

Twain Harte Elementary School

GENERAL INFORMATION



COLUMBIA COLLEGE

Columbia College is a public community College located in the foothills of the Sierra Nevada and the heart of California's Gold Country. Over 200 acres of forest land adjacent to Columbia State Historic Park provide an idyllic setting for this unique campus, which has often been described as one of the most beautiful in the nation. With a variety of natural wonders nearby, the College is ideally situated for outdoor recreational activities through all four seasons of the year. Total enrollments and class sizes are such that faculty know every student on an individual basis. This size, along with the informal, friendly atmosphere of the College promotes close and continuing interaction between students and staff. A wide variety of support services is readily available. By virtue of its natural setting, small size, and dedicated staff, the College is not only committed to, but capable of, providing a quality education in a quality environment.

History

Columbia College and Modesto Junior College are the two community colleges located in the Yosemite Community College District. The former Modesto Junior College District was expanded into the larger Yosemite Community College District in 1964 by action of the district electorate. The district is geographically one of the largest in the State and transects more than 100 miles of the fertile San Joaquin Valley from the Coast Range on the west to the Sierra Nevada on the east. The boundaries include nearly 4,000 square miles encompassing all of Tuolumne and Stanislaus Counties and parts of San Joaquin, Merced, Calaveras and Santa Clara Counties.

Because of an increase in student enrollment, the need for greater educational opportunities in the mountain counties, and the great distance involved in travel for students to attend Modesto Junior College, the Yosemite Community College District Board of Trustees authorized the formation of Columbia Junior College and scheduled its opening for September, 1968. The word "Junior" was dropped from the College name in 1978. Starting on the quarter system, Columbia College changed to the semester system on July 1, 1984.

Campus and Facilities

Campus buildings are planned around San Diego Reservoir from which wooded foothills join the rugged majesty of the Sierra Nevada. In keeping with the historic atmosphere of the Mother Lode Region, the design concept of the campus is in the architectural style of early California during the Gold Rush Days. In this unusual and picturesque setting, the College is committed to a comprehensive program of academic and occupational education which focuses on the worth and dignity of each student.

More than 200 acres of forest and land adjacent to Columbia State Historic Park in Tuolumne County were acquired from the U.S. Department of Interior, Bureau of Land Management, as the site for the Columbia College.

Accreditation

Columbia College is accredited by the Accrediting Commission for Junior Colleges, Western Association of Schools and Colleges.

The College is listed in directories of the United States Office of Education, the American Council on Education, and the Western Association of Schools and Colleges.

Appropriate lower division courses completed at Columbia College will be accepted with full credit upon transfer to California State Universities and other four-year colleges.

College Functions

Columbia College is committed to meeting the postsecondary educational needs of the community through the following functions. Students may earn an Associate Degree or vocational certificate or both upon completion of specific requirements outlined in this catalog.

• General Education

To provide programs in the Humanities, Natural Sciences, Social Sciences and Physical Education to satisfy requirements for transfer to upper division institutions; to develop the knowledge and skills, and attitudes and values that characterize informal, responsible, citizenship; to offer intellectual and cultural enrichment; and to promote mental and physical well-being.

Vocational Education

To provide courses and programs to prepare students directly for employment, to update skills and knowledge, to meet the specialized training needs of the local community, and to facilitate transfer to other postsecondary institutions.

Remedial Education

To assist the student in acquiring those basic competencies needed for effective participation in other College programs.

Student Services

To provide a comprehensive program of support services designed to facilitate student access to the College; to assist students in educational and career planning; and to help ensure successful completion of their personal goals.

Community Services

To serve the educational and cultural needs of the community at large by offering noncredit and feefunded courses and self-supporting cultural activities and events; by making College facilities available to community groups; and by providing information regarding College programs, personnel and activities to the media and the general public.

High School Equivalency Diploma (G.E.D)

Columbia College serves as an official General Educational Development Testing Center and provides the opportunity to obtain the High School Equivalency (G.E.D.) Diploma.

OPEN CLASS POLICY

Unless specifically exempted from statute, every course, course section, or class, the average daily attendance of which is to be reported for state aid, is open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established.

Exception to this policy will be made where health, safety, legal requirements or the facility is a limiting factor in the conduct of the course. Students denied enrollment by this policy may appeal to the Dean of Student Services.

NON-DISCRIMINATION

In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Age Discrimination Act of 1975, Columbia College does not discriminate on the basis of race, color, national origin, sex, handicap or age in its educational programs or employment.

Inquiries concerning the application of the above Federal laws to programs or activities of the College may be directed to the following persons at Columbia College, P.O. Box 1849, Columbia, CA 95310:

Title IX: Candace Williamson, Coordinator

Gender Equity (209) 533-5216

Section 504: Paul Lockman, Director

Handicapped Students Program

(209) 533-5132

STATEMENT OF INTENT

The Yosemite Community College District and Columbia College have made every reasonable effort to determine that everything stated in this catalog is accurate. Courses and programs offered together with other matters contained herein, are subject to change without notice by the administration of the Yosemite Community College District or Columbia College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. The District and the College further reserve the right to add, amend, or repeal any of their rules, regulations, policies and procedures.



ADMISSIONS



ADMISSIONS

Eligibility

Graduates of accredited high schools, persons holding a high school Certificate of Proficiency, or those persons 18 years of age or older who are able to profit from instruction and who meet the residence requirement are eligible for admission to Columbia College. Admission with previously earned credits will be granted upon evidence of official transcripts showing satisfactory scholarship and an unqualified honorable dismissal from an accredited college. The students must request the previous colleges of attendance to mail transcripts directly to Columbia College.

Residence Requirements

Persons 18 years of age and older have the legal right to establish their own residence for purposes of admission.

A statement verifying legal residence is required to be filed with the college prior to initial registration. A student is qualified to attend Columbia College if he/she meets one of the following residence requirements:

- (1) Is a legal resident of the Yosemite Community College District with a local address.
- (2) Is a legal resident of a California high school district not affiliated with a community college district.
- (3) Is a student whose legal residence is in another state and pays the out-of-state fee.
- (4) Is an international student who complies with special admission requirements and pays the non-resident fee.

Admission of Non-resident Students

Columbia College accepts students who are residents of other states if they meet all admission requirements. A minor's residence is the same as that of his/her parents or legal guardian.

In order to be classified as a resident for tuition purposes, a student must have been a legal resident of the State of California for more than one year immediately preceding their enrollment.

Nonresidents of California, including international students, are required to pay an out-of-state tuition fee of \$92.00 per unit plus the \$5.00 per unit regular tuition and required health fees.

Admission Procedures

Students who desire admission to Columbia College are to complete and return application forms to the College Admissions and Records Office. Application forms are available from Columbia College, high school counselors in the Yosemite Community College District or may be obtained by writing to the College.

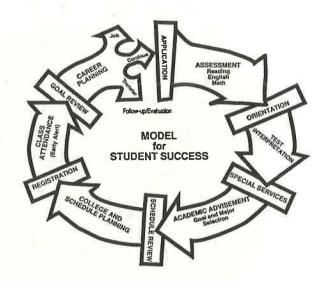
Before admittance, official transcripts for all previous college and high school work must be received by the College. If no transcript is available due to withdrawal, an official letter stating this fact is required. It is the student's responsibility to furnish the College with official documentation for previous high school and college work or training to be evaluated for credit. These documents become the property of Columbia College and cannot be reproduced or released for any purpose.

Applications should be submitted as early as possible in order to allow for processing. A local address must be submitted before completion of registration.

Readmission

A student who plans to return to Columbia College after an absence of one academic year or more must file an application for readmission. Transcripts are required if the student has attended another college since last attending Columbia College.

GOLD (Goal Oriented Learning Development) Matriculation Program



New Columbia College students are provided with a step-by-step approach to a successful educational experience. The GOLD (Goal Oriented Learning Development) program is designed to give students information and assistance at the time it is most needed: at the threshold of their college careers. All new students with no prior college credit are REQUIRED to participate in the matriculation program, GOLD. Exception: Persons who qualify for one of the matriculation exempt categories.

A person participating in GOLD will:

- complete the assessment battery: placement exams in reading, English, and math
- attend an orientation session where College services and programs are explained
- receive academic advisement assistance in developing a program of studies based upon the chosen major and goals

- learn strategies for planning a class schedule
- receive interpretation of the reading, English and math placement tests
- find out about majors, general education requirements, transfer requirements, and certificates of achievement
- plan a class schedule in accordance with the chosen academic goal, interests, current skills, and time available for study and work
- participate in a smooth, problem free registration process
- receive individual attention and assistance if class progress monitoring identifies a problem area

Students meeting one or more of the following criteria are exempt from all or parts of the GOLD matriculation program:

- Students enrolled in community services and noncredit courses only
- Students holding an associate or higher degree
- Students enrolled only in *activity courses for which there is no basic skill prerequisite
- Students enrolled only in contract education or courses for in-service training
- Students who designate their goal as enrichment
- *Available in the Schedule of Classes

Notice of Acceptance

New and former students will be notified officially of their acceptance and opportunities for orientation and advisement appointments after all application forms have been received.

Schedule of Classes

A Schedule of Classes is the official listing of courses. It is published each semester of the academic year.

The Schedule of Classes contains information regarding registration dates and special instructions for registering in classes

The College reserves the right to make additions or deletions to the Schedule of Classes. Any class in which the enrollment is too small to justify continuance may be cancelled.

Admission of International Students

In the belief that students from foreign countries make significant contributions to the college community while preparing for leadership roles in their home countries, Columbia College accepts a limited number of international students each year.

The College may restrict the number of international students from a foreign country so that many nations of the world may be represented on the Columbia campus. Students are required to submit the following information in English by May 1 for admission to the following Fall Semester:

- (1) Complete the COLUMBIA COLLEGE INTERNATIONAL STUDENT SUPPLEMENTAL APPLICATION FOR ADMISSION.
- (2) Submit the original or certified copy of all transcripts of previous schools attended that are equivalent to high school or college level.
- (3) Submit official results of the Test of English as a Foreign Language (TOEFL) if your native language is other than English. (Citizens of Canada, Great Britain, Ireland, Australia and New Zealand whose native language is English are exempt from taking the TOEFL.)
- (4) Furnish evidence of satisfactory financial support by completing the Columbia College Financial Information Form and providing a written guarantee from the bank of a parent, relative or sponsor in the United States.
- (5) Furnish two letters of recommendation, one of which must be from a teacher with whom you have studied recently attesting to your ability to do college work.
- (6) Have a physician complete the PHYSICIAN'S CERTIFICATE OF HEALTH. The certificate must be completed and show immunization clearance examination.
- (7) Furnish evidence of a sickness and accident insurance policy (if proof is not provided, applicant if accepted must purchase Columbia College International Student Sickness and Accident Insurance prior to registration).
- (8) Applicants selected for admission are responsible for making arrangements for their own housing and notifying the College of their local address. However, the College may be of assistance in providing information for housing upon arrival in the area. Columbia College has on-campus housing available on a first-come, first-served basis.

Upon completion of all application requirements listed above by the deadline date, each applicant for admission will be given equal consideration along with all other qualified applicants. If selected, the I-20 form and information requesting travel plans will be mailed. The I-20 form must be presented to the appropriate officials in order to obtain an F-1 (Student) Visa and enter the United States.

A college counselor serves as advisor to international students. This college is authorized under federal law to enroll non-immigrant alien students.

Admission of High School Students

High school students in their junior or senior year, upon written authorization of their principal and approval of the College, or those holding a Certificate of Proficiency, may enroll in Columbia College classes.

STUDENT SERVICES



STUDENT SERVICES

Student Orientation

An introduction to the College is provided for new incoming students at the time of their initial advisement appointment. Since this is a group orientation, students are encouraged to use this service to gain information concerning the College's responsibility to the student, the student's responsibility to the college, as well as to learn what student services are available.

Counseling Services

Counselors are available by appointment during the day and evening. They also have some available drop-in hours scheduled during the day. Professional counselors assist students with academic planning, determining vocational goals and resolving personal and social problems. When appropriate, testing services to evaluate occupational interest or aptitude are provided by counselors. Counselors may refer students to other services provided by the College or other agencies.

FINAL SELECTION OF CLASSES AND COM-PLETION OF PROGRAM REQUIREMENTS ARE THE RESPONSIBILITY OF THE STU-DENT.

Financial Aid

The College Financial Aid Office administers the following Federal and State assistance programs: Pell Grant, Supplemental Educational Opportunity Grant, College Work Study, Perkins Loan, Cal Grant, Extended Opportunity Programs and Services, California Board of Governors Grant and California Guaranteed Student Loan.

Students who need help to meet the expenses of going to college; i.e., tuition and fees, housing, food, books, supplies, transportation and personal incidentals may obtain applications in the Financial Aid office from January 15, 1988, through February 1, 1989. Eligibility is based on financial need and satisfactory academic progress and is distributed on a first-come, first served basis, contingent upon availability of funds.

In compliance with Federal regulations, a detailed Financial Aid Handbook is available in the Financial Aid Office, Admissions and Records Office, and College Library.

Veterans Affairs

Disabled veterans, Vietnam Era veterans, Post Vietnam Era veterans who contributed to the program, members of Reserve units and dependents of disabled, deceased or retired veterans may be eligible to receive educational benefits while attending college at least half-time. The applications which are available in the Veterans Affairs Office should be completed 30-120 days prior to the beginning of the term if advance pay is being requested, or at the time of registration for normal processing. Information regarding other documents that may be required is also available in the Veterans Affairs Office.

Scholarships and Awards

Columbia College has an extensive number of scholarships and awards provided by organizations and individuals both within and outside our community which are publicly announced on the MONEYBOARD outside the Admissions Office and in the MONEYBOOK, a brochure available in the Scholarship Office.

The standard application which may be obtained from the Scholarship Office is used to determine student's eligibility for most of the awards. If a special application is required for a specific scholarship, it will be noted.

Selection is generally based on one or more of the following criteria: grade point average, financial need, major, units completed, participation in extracurricular activities including employment and/or homemaking. Awards are given to students pursuing goals in most every major, certificate or transfer program offered and they are available for new, continuing, returning, and transferring students.

Food Service

Food Service is located on the lower level of the Learning Resource Center and is operated by students in the College's Culinary Arts Program.

The Cellar Restaurant is open Monday through Thursday serving a daily hot lunch special.

Breakfast, lunch and dinner are available Monday through Thursday and until 2:00 p.m. on Friday in the school cafeteria.

Extended Opportunity Programs and Services (EOP&S)

Extended Opportunity Programs and Services are provided at community colleges in order to encourage the enrollment and retention of students who are disadvantaged as a result of economic, social, and educational background.

Services available include:

Direct Financial Aid - grants, book grants, and work study.

Admission Assistance

Tutoring - academic and vocational subjects.

Counseling - academic, vocational, and personal.

Transferring - assistance in applying to four-year universities and colleges.

Apply for EOP&S through the EOP&S Center or the Financial Aid Office.

Student Records Regulations

A student's records are open to the student, employees of the College acting in the course of their duties and State and Federal officials as defined in Section 54618 of the California Administrative Code.

The College may grant access to individual student records for educational or emergency purposes and for court orders as permitted in Sections 54620 and 54622 of the California Administrative Code.

Student's Rights and Procedures for Grievance

Information pertaining to students' rights, conduct and grievance procedure is available in the Student Services Office.

Columbia College Transcripts

- Upon WRITTEN request from the student to the Admissions and Records Office, two Columbia College transcripts will be issued without charge. This includes official and unofficial copies.
- Additional transcripts are \$2.00 each.
- Transcripts will NOT be forwarded for any student who has an official hold placed on their record by the College.
- Transcripts CANNOT be sent in response to a TELEPHONE request (Family Education Rights & Privacy Act of 1974).
- Transcripts will not be released to anyone other than the student unless the person has written authorization from the student.
- Transcript request forms are available in the Admissions and Records Office.

Other College or High School Transcripts

- New students are required to submit official transcripts from course work taken at other colleges and/or high schools.
- The student should request from the sending college or high school that transcripts be mailed directly to Columbia College. Columbia will only accept a transcript that is official and received in a sealed envelope.
- Transcripts sent to Columbia from other colleges or a high school may NOT be released to: a) students, b) other colleges, or c) agencies. They must be obtained from the sending institution.

Privacy Rights of Students

All student records of Columbia College are kept in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974.

All students, including former students, have the right to review their records and the right to challenge the content of their records if, in their opinion, the records contain material that is incorrect, inaccurate or otherwise inappropriate. The Dean of Student Services is the official to be contacted by any student desiring to exercise his/her rights to access and challenge.

Written student consent is needed for release or review of student records to all parties or officials except for those specifically authorized access under the Act.

Copies of the Family Educational Rights and Privacy Act of 1974, as omer ., are available for inspection in the Admissions seconds Office.

Learning Skills Center

The Learning Skills Center offers individual learning programs to enhance the background of any student wishing to improve vocabulary, reading, writing, spelling, or math skills. Flexible scheduling allows students to use the Center anytime their schedules permit.

Tutoring

Peer tutoring assistance is available to students in the following areas: EOP&S Office and Learning Skills Center. Students desiring tutoring should contact either of these areas.

Disabled Student Services

The Disabled Student Services Program is designed to provide access to educational programs and activities for students with disabilities. The College has made changes in campus design to allow the disabled student access to the College campus.

Services offered:

Physical Disabilities

Disabled parking, on-campus transportation, mobility assistance, academic tutoring, assistance in locating notetakers, readers, and test taking assistance.

Communication Disabilities

Sign language interpreters, speech therapy, notetakers, and academic tutoring.

Learning Disabilities

Individualized educational assessment; followed by the development of an Individual Education Plan designed to teach learning strategies and skills development appropriate to the student's needs.

Additional Services

Personal and vocational counseling, academic advising, special equipment loan, and liaison with campus and community resources.

Special Instruction

Adaptive physical education, cardiac therapy, written language development, and diagnostic learning.

Health Services

A registered nurse is on campus several hours each class day to provide a variety of health services for students registered at the College. Health services are also available for evening and housing students.

Students having chronic health problems are requested to inform the College nurse so that the best possible aid may be rendered in case of an emergency. Student health records are confidential.

Illness or accidents occurring on campus should be reported immediately to the College nurse or any administrator. The nurse's office is located in the Health Occupations (500) building.

Student Insurance

Student accident insurance is provided by the College. Students who desire additional accident or health insurance information may contact the College Business Office.

Student Identification Cards

Student Identification Cards are required for checking out library books and audio visual equipment and materials. Students may obtain Identification Cards in the College Library at the beginning of each semester.

Student Activities

College life fosters an attitude and a pattern for social and college-community involvement. Student activities are offered to widen horizons of students and develop an awareness of social and public responsibility. The framework of social events, publications, clubs, intramural activities, community projects, musical programs, dramas, campus involvement, and cultural events is developed through student-faculty interaction.

A program must meet the needs of students to be meaningful. Students interested in planning and developing an activity are encouraged to discuss their ideas with any faculty member or person involved in student activities. Faculty members may serve as advisors to foster and help the student.

All students are members of the Associated Students of Columbia College and they in turn develop a student government. Student Government is a representative group of students which is responsible for the conduct of student affairs, coordinates the social activities of campus organizations, and serves as spokesman for the student body. The government is developed to fit the needs of the students at that particular time.

Inter-Collegiate Athletics

The College is a member of the Central Valley Conference. To be eligible to participate in intercollegiate athletics, a student must be enrolled in at least 12 units of credit each semester. To be eligible the second year, the athlete must attain a cumulative 2.0 GPA the first year.

Career Center/Transfer Center

The Career Center, located adjacent to the Library, offers materials and services to assist students with career information. The Center maintains a variety of resources including occupational publications, newsletters, college catalogs, and Eureka, a computerized vocational/educational information system.

The Transfer Center contains college catalogs and articulation agreements with selected colleges and universities.

Limited off-campus housing information is available in the Career Center.

Student Employment

Employers are encouraged to list job openings, full or part-time, with the Career Center which maintains a list of off-campus employment.

College Bookstore

The Manzanita Bookstore, located in the Learning Resources Center, carries textbooks, materials and supplies required for classes. The bookstore also sells paperbacks, greeting cards, sundries, snacks, and many other items. A campus Bookstore Advisory Committee provides suggestions and ideas to enhance the services provided to the campus community by the Manzanita Bookstore.

Costs of textbooks and educational supplies vary with the type of program the student is pursuing. Costs normally range from \$100 to \$150 each semester depending on the program.

Library

The Columbia College Library is a center for study, class research, and leisure reading, and welcomes use by students, staff and community members. The Library's collections include nearly 30,000 books, current subscriptions to 300 magazines and six newspapers, pamphlets, maps and art prints. Available in the Audio-Visual Department are more than 5,000 cassette tapes of popular, folk, and classical music, local oral history, shorthand, and a wide variety of other topics as well as cassette players, slide-tape kits, and Polaroid cameras. A typing room with electric and manual typewriters is open for use during Library hours. Photocopying can be done on a coin-operated machine near the Library.

The Library can locate and borrow on Interlibrary Loan materials not in the College Library. As a member of the Central Association of Libraries, the Library has quick access to the collections of more than 50 libraries. This service is available to students, community residents, and college staff.

The Library is open when college is in session Monday through Thursday, 8:00 a.m. to 9:00 p.m., and Friday, 8:00 am. to 4:30 p.m. It is closed weekends and school holidays.

Security/Parking

Campus Security is available to assist students, staff and visitors as needed. Security personnel may be contacted through the Campus Fire Department or the Dean of Student Services Office.

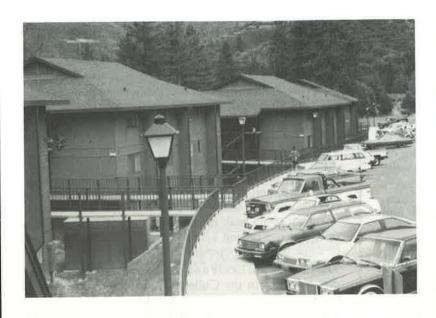
The College maintains parking areas for students, staff, disabled persons and visitors. Parking regulations are strictly enforced by Campus Security. A fee is charged for parking.

Student Housing

A student housing complex is located on campus. The facility is designed as cluster apartments and is partially furnished including a kitchenette. Four students may be housed in each apartment. Additional information is available by contacting the Residence Manager or the Admissions and Records Office. First priority for housing is given to full-time Columbia College students.

Housing ...

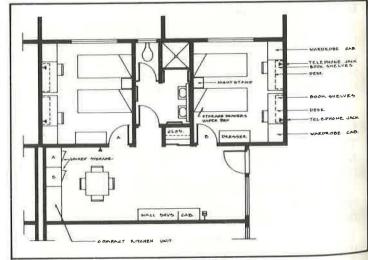
Designed For The Student





Columbia College Student Housing provides modern affordable housing for students. These residences are on the campus within easy walking distance of all the college buildings. Situated among the natural wooded beauty of the campus, the housing offers each student:

- ★ Ample parking lots adjoining the buildings. Parking fees are minimal.
- ★ Furnished rooms which include desk, chairs, wardrobe, bookcase, bed and dresser. (Soft furniture such as couches are not provided.) The resident need only to bring linens, towels, dishes and personal articles.
- ★ Kitchenette with stove and refrigerator and dinette set.
- ★ T.V. and telephone outlets pre-wired to each suite. Student must provide sets.
- ★ Coin operated washer/dryer facilities on the premises.
- ★ Utilities (except telephone) are included with the rent.

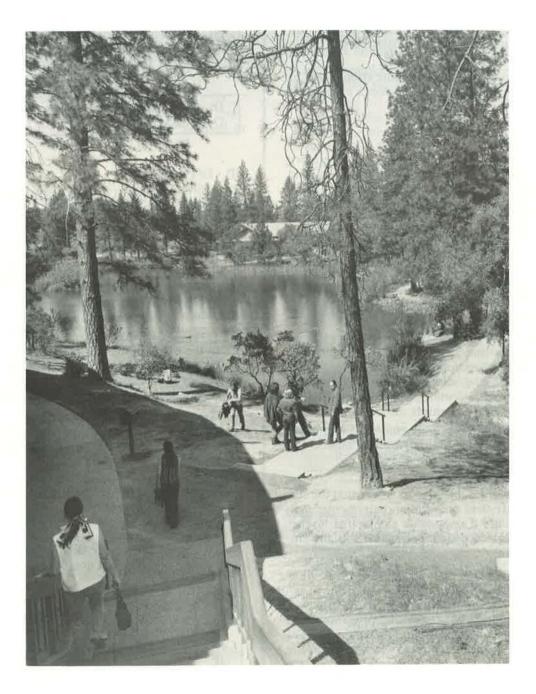


Typical floor plan.

Suites for the disabled are provided in the manager's building allowing wheelchair access to rooms.

Outdoor volleyball, basketball, lighted tennis courts and a jogging course (PAR) are available to residents.

ACADEMIC POLICIES AND PROCEDURES



Academic Policies And Procedures Catalog Rights

- A student will be held responsible only for the policies and requirements designated in the catalog for the academic year in which the student completes the first credit course.
- Student's catalog rights begin with the semester a student completes their first course or courses at Columbia College. Attendance at other colleges is not included in determining catalog rights at Columbia College.
- *Exception: Attendance at another Yosemite Community College District college may be excepted.
- Continuous attendance is defined as completion of at least one credit course per academic year (July 1 -June 30) at Columbia College.
- A student has ONLY four (4) years in which to complete the requirements for graduation as defined in the catalog.
- A student who has not met the educational goal at the end of the four years, must select a subsequent catalog.

Unit of Credit

A "unit of credit" is earned on the basis of one hour of lecture-recitation per week or three hours of laboratory per week during a semester. It is common to find courses composed of learning activities resulting in combinations of lecture-recitation, independent and tutorial study, or directed and individual laboratory experiences. In all cases these are to be equated with the unit of credit.

The following terms are synonymous in expressing a unit of credit: semester unit, semester hour, class hour, credit and credit hour.

Columbia College operates on a semester system.

Conversion of Units

To convert quarter and semester units of credit, the following methods of computation are used:

- (1) Quarter units of credit are converted to semester units of credit by multiplying the number of quarter units by two-thirds.
- (2) Semester units of credit are converted to quarter units of credit by multiplying the number of semester units by one and one-half.

Prerequisites

Course prerequisites are intended to ensure that the student will have sufficient preparation before entering a course and to assure a reasonable chance for his/her success. Knowledge of course prerequisites is the student's responsibility.

Where no prerequisite is stated as part of the course description, none is required.

Prerequisites may be waived when in the instructor's judgment the student has adequate preparation to satisfy the course objectives. An instructor has the prerogative to refuse admission to class or officially drop a student from class who has not satisfied the course prerequisites as published in the College catalog.

Grading System

Evaluation of student achievement is made in relation to the attainment of specific course objectives. At the beginning of a course the instructor will explain the course objectives and the basis upon which grades will be determined by one of the following symbols:

- A Excellent
- B Good
- C Satisfactory
- D Passing, Less Than Satisfactory
- F Failure

W - Withdrawal From Course

- I Incomplete
- CR Credit (At Least Satisfactory)

This grade CANNOT be changed to a letter grade.

NC - No Credit (Less Than Satisfactory)

This grade CANNOT be changed to a letter grade.

IP - In Progress

O - Ungraded Class

IP - In Progress

- IP In progress is a grade symbol for:
 - An open entry/open exit course. The student must re-register for the course in a subsequent semester in order to receive the units and a letter grade.
 - 2. A class that is scheduled to extend beyond the end of the semester (a "bridge" class)

e.g.: Course begins November 6
Course ends February 1
Semester ends December 18

- In the case where a student does not re-register, the IP grade will be changed to the grade earned at the end of the semester the IP was given.
- The student's permanent record will reflect an IP for the semester in which the class began.
- Final grade and units for an open entry and bridge class will be issued during the semester in which a class ends.

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

W I CR NC

IP

0

Not included in computing grade point average but may be used in determing progress probation and dismissal.

Grade Point Average

The Grade Point Average—GPA—is determined by the following formula:

GPA = Total grade points earned

Total semester units attempted

For example, a student who earns 5 units of "A", 4 units of "B", 3 units of "C", 2 units of "D", and 2 units of "F" would compute his GPA as follows:

5 units A x 4 = 20 grade points

4 units B x 3 = 12 grade points

3 units $C \times 2 = 6$ grade points

2 units $D \times 1 = 2$ grade points

2 units $F \times 0 = 0$ grade points

16 units

40 grade points

GPA = 40 grade points

16 units attempted

The result in this example is a GPA of 2.50.

Units for which a grade of "W," "I," "CR," "NC," or "IP" has been assigned are not counted in computing the Grade Point Average but may be used in determining progress probation and dismissal.

Adding A Course

To add a class, students must complete an Add Form which may be obtained from Admissions and Records. While classes may be added during the first ten (10) days of instruction, during days 6 through 10, students must have the instructor's written approval.

Dropping A Course

A student may drop a course or reduce the number of units in a course during the first 4 weeks of instruction. The course or units will be removed from the student's program of attendance without a grade being recorded. From the fifth week to the last day to drop without penalty, a student may drop a course and a grade of "W" will be recorded on the student's transcript of record providing the student has officially withdrawn from the course.

The last day to withdraw without penalty for all fultime credit courses shall be the last day of 75 percent of the semester as noted in the College Calendar of Schedule of Classes. For courses less than full term, an equivalent withdrawal period will be in effect. WHEN DROPPING COURSES, IT IS THE STUDENT'S RESPONSIBLITY TO FILE ALL WITHDRAWALS FROM THE COURSES.

Repetition of Courses

- Designated courses may be repeated for credit. These courses are identified under the course description section in the College catalog.
- Any course in which a student has earned a NC or W may be repeated for college credit.
- For a course in which an IP grade is issued, no units are awarded. A student must re-enroll and complete the course to be awarded college credit.

Repetition of Courses for Improvement of Grades

- A student who has earned a grade of D or F in a course may repeat the course ONE time for grade improvement and have only the HIGHER grade computed in the grade point average at Columbia.
- When repeating a course in which a D was earned, the higher grade and grade points will be recorded, but no additional units for the course will be allowed.
- When repeating a course in which an F grade was earned, the higher grade, grade points and units earned for the course will be recorded.
- Courses in which the student has earned a C or better (including CR) may NOT be repeated for improvement of grade.

Incomplete Grades

- An incomplete grade (I) may be given for an unforeseeable emergency and justifiable reason if a student does not complete all requirements of a course.
- Responsibility for removal of an incomplete grade within the time granted by the instructor rests with the student.
- An incomplete grade must be made up by the date designated by the instructor on the agreement for Incomplete Grade Removal, but in no case later than ONE YEAR from the term in which the (I) was issued.
- At the end of one year following the term in which the (I) was assigned, if the student has not completed the conditions for removal, the (I) will be changed to the grade the instructor indicated would be issued if the conditions were not met for removal.
- Instructors will submit to the Admissions and Records Office a written record of the conditions for removal of the (I) and the grade to be assigned in lieu of its removal. A copy of this record and related instructions will be provided to the student upon request.
- When the student has completed the course work, the instructor will assign the appropriate grade and notify the Admissions and Records Office. The incomplete grade (I) will be replaced with the appropriate grade.

Academic Renewal

Subject to the following conditions, up to 24 units of substandard work (D's and F's) from two semesters or 36 units from three quarters, taken at any accredited college or university, may be alleviated from computation of the grade point average at Columbia College:

(1) Since completion of the work to be alleviated, the student must have completed fifteen (15) semester units with at least a 3.0 G.P.A., thirty (30) semester units with at least a 2.5 G.P.A., or forty-five (45) semester units with a least a 2.0 G.P.A. at any accredited college or university.

- (2) A minimum of two years must have elapsed since completion of the work to be alleviated.
- (3) Any student not meeting all the requirements of items number one and number two may petition the Student Petition Committee/Dean of Students for special consideration.
- (4) The student's permanent record will be annotated in such a way that all work remains legible, ensuring a true and complete academic history.
- (5) Columbia College will honor similar policies of accredited colleges and universities, but other transfer institutions may reject academic renewal action.
- (6) The student must submit a request for Academic Renewal Evaluation to the Admissions and Records. Forms are available in Admissions and Records.

99./199. Independent Study Courses

Independent study courses are intended to give students an opportunity to independently research specialized areas not available as regular course offerings of the College.

Independent Study courses do not appear in the catalog as such since these courses are designed to meet specific student interests. Independent study courses may be made available in any subject matter area. Consult your counselor for specific procedures.

CONDITIONS

To be admitted to independent study, a student shall:

- (1) have completed one semester (12 units) in residence and have a Grade Point Average of 2.5 either cumulative or for the previous semester as a full-time student.
- (2) have written approval of the instructor directing the student's Independent Study, and written verification by the Admissions and Records Office that the maximum credit limitation for Independent Study will not be exceeded. Maximum unit value for any Independent Study course for any one semester will be 3 units of credit.

LIMITATIONS

The following limitations apply to Independent Study courses:

- (1) Registration is restricted to one Independent Study course per semester and registration must be completed prior to the fourth week of the semester.
- (2) An overall maximum of 7 units of credit completed will be allowed for Independent Study.

Students who intend to transfer are advised that Independent Study credit may not fulfill either major or General Education Breadth Requirements. Independent Study credit earned by students not transferring may be evaluated in partial fulfillment of major requirements.

Credit/No Credit Grading

- A student may choose a credit/no credit (CR/NC) option in courses for which letter grades are issued.
- A student must exercise the option no later than the first thirty percent (30%) of the term.
- Student performance equivalent to A, B, or C work will equate to a credit (CR) grade.
- Student performance equivalent to D or F work will equate to a no credit (NC) grade.
- A CR/NC grade may NOT later be converted to a letter grade.
- A CR or NC grade will be recorded on a student transcript and remain permanent.
- CR/NC units may NOT be applied toward a student's major for the Associate Degree.
- CR/NC units are NOT computed in determining a student's grade point average at Columbia.
- Units attempted for which NC is recorded are counted in determining progress probation and progress dismissal.
- The maximum number of credit (CR) semester units, earned under the CR/NC option, that may be counted toward the Associate Degree is fourteen (14).
- Courses offered ONLY for CR/NC are EXCLUD-ED from the maximum of fourteen units counted toward the Associate Degree.
- For courses allowing a letter grade of CR/NC option, the student is limited to enrollment in one course per semester. For courses designated as ON-LY CR/NC grading and no letter grade, there is no limit to the number of courses in which enrollment is allowed each semester.
- A student must obtain and submit the completed Credit/No Credit Grading Request Form from the Admissions and Records Office.

Credit by Examination

A student may challenge certain specifically designated courses by examination and obtain credit. (A list of those courses which may be challenged is available in the Admissions Office.) Grades and grade points are entered on the student's transcript of record in the same manner as for regular courses of instruction. The intent of this provision is to:

- (1) enable students to pursue courses of study at an accelerated rate and to encourage independent study, and
- (2) recognize; training or experience for which credit or advanced standing was not previously granted.

CONDITIONS

Only Columbia College courses may be challenged by examination. A maximum of 20 units may be earned by Credit by Examination. Credit granted by examination at accredited colleges will be accepted; such credit will be included in the maximum allowed by examination.

In order to challenge a course for credit, a student must:

- (1) be registered in Columbia College and enrolled in the course which is being challenged.
- (2) have completed at least 12 units of work in residence.
- (3) have a cumulative Grade Point Average of 2.0 ("C" average).

PROCEDURE

The student must make arrangements for credit by examination with the individual instructor, who, on approval, will outline the challenge requirements and schedule the examination. Whatever grade the student earns will be entered on his/her record at the end of the term.

PREVIOUSLY EARNED CREDIT

College Credit

Previously earned lower division college or university units will be accepted if the institution was accredited by a recognized accrediting association when the student was in attendance. A maximum of 15 semester units will be allowed for courses taken by correspondence from accredited institutions.

Credit for Military Service

Armed forces personnel or veterans with a minimum of one year of satisfactory service may receive:

- (1) Two semester units and waive P.E. requirement for graduation.
- (2) Credit for military service schools in accordance with credit recommendations published by the American Council on Education.
- (3) Credit for certain USAFI lower division collegelevel courses. Provisions for granting credit to armed forces personnel and veterans are subject to the following conditions:

At least 15 semester units of work must be completed at Columbia College before a student may receive credit.

Credit will not be granted for military service or military service schools where comparable units have been earned in courses previously taken.

The maximum credit allowable is 20 ungraded units.

Credit granted to armed forces personnel and veterans by another institution is subject to re-evaluation by Columbia College.

Classification of Students

While the minimum full-time program that will qualify a student for graduation in two years is 15 units per semester, the following classifications have been established:

Full-time — registered for 12 or more units.

Freshman — fewer than 30 units completed.

Sophomore — 30 or more units completed.

Attendance

Students are responsible for making arrangements with their instructors to complete all course work missed.

An instructor has the prerogative to lower a student's grade because of excessive absence.

Absence from the first class meeting may cancel registration in the course.

Continuous Attendance

Students must complete at least one credit course per academic year at Columbia College (July 1 - June 30) or risk the loss of the right to their original catalog year.

Final Examinations

Students are responsible for taking final examinations at the time scheduled unless prior arrangements are made with the instructor.

Final grades are considered permanent and may be changed by the instructor only in case of error.

Scholastic Honors

Graduating students who have earned a cumulative Grade Point Average of 3.75 or better in all college work are awarded the Associate Degree With Distinction.

Students whose cumulative Grade Point Average is between 3.50 and 3.74 are awarded the Associate Degree With Honors.

Each semester a list of student names is published to recognize scholarship in at least 12 completed units of work. Classes taken for CR/NC are not included in attempted units. Students whose Grade Point Average is between 3.5 and 4.0 with no grade lower than C are acknowleged on the Deans list.

Not more than three units of Learning Skills courses a semester may be counted to qualify for the Deans' List. Pre-collegiate level courses also can count towards unit total.

Grade Reports

Final grade reports are compiled after the end of each semester. Students may request a current progress report prior to the end of the term by completing a form which is available in the Admissions and Records Office.

Satisfactory Progress

A student whose cumulative Grade Point Average is 2.0 ("C" average) is scholastically in "good standing."

All units and grade points are counted on a cumulative basis. The method of computing the Grade Point Average is illustrated on page 27.

A student with a Grade Point Average less than 2.0 is doing unsatisfactory work, will be placed on academic probation, and is subject to disqualification.

Academic Probation and Dismissal

The purpose of academic probation at Columbia College is to ensure that students who are deficient in scholastic achievement will receive special advisement. Students who are on probation will be assigned to a counselor.

Students who are on probation will be required to complete the College Success class, Guidance 107, in which they will receive information and assistance to guide their educational pursuits.

A student will be placed on probation for the following semester when the cumulative grade point average falls below 2.0 on a minimum of 12 units attempted. Computation of the GPA (grade point average) is based on all units attempted at Columbia excluding those taken on a Credit/No Credit basis.

A student is dismissed for one year from attending any class offered by Columbia College if in any term of attendance on academic probation after having attempted 12 units:

- (1) The term grade point average is less than 1.5, or
- (2) The cumulative grade point average is below 1.75.

Dismissed students admitted by special petition will be notified to make an appointment with a counselor for program review and possible adjustment.

Progress Probation and Dismissal

A student who has enrolled in a total of at least 12 semester units shall be placed on Progress Probation for the following semester when the percentage of all units in which the student has enrolled and for which, "W", "I", and "NC" are recorded reaches or exceeds fifty percent (50%).

Disqualification

A student disqualified for academic reasons will be required to complete the College Success class, Guidance 107, during the semester they are readmitted to Columbia.

A disqualified student may not be reinstated under the admissions provision until one semester from the date of disqualification. If the Grade Point Average of a student readmitted after disqualification falls below 2.0 for the following semester, the student may be permanently disqualified.

In the event a student is disqualified, he/she may petition for readmission on the basis of the following circumstances that might warrant an exception:

- (a) Evidence of consistent improvement in the student's record.
- (b) A change from one major to a field of study more appropriate to the student.
- (c) Circumstances in the personal life of the student which the counselor of the student believes may have been of sufficient gravity to affect adversely the performance of the student.
- (d) The recommendation of the student's physician that the continuance in college would be of sufficient therapeutic benefit to the student to warrant the granting of an additional opportunity.

If a student has been disqualified and feels he/she has extenuating circumstances worthy of consideration, he/she may request in writing to the Dean of Student Services that the one semester period of disqualification be waived.

Conduct

A Code of Student Conduct has been adopted by the Yosemite Community College District Board of Trustees. Copies are available in the Student Services Office.

Withdrawal From College

If a student wishes to withdraw from the College, it is his/her responsibility to notify the Admissions and Records Office.

Educational Expenses

The enrollment fee for attending Columbia College is \$5 per unit through nine units; for ten units or more the fee is \$50. Students may qualify to have the fee waived if their income falls below a specified level or if they are receiving AFDC, SSI or GA. Applications, which are available in the Admissions and Financial Aid Offices need to be submitted to the Financial Aid Office for processing prior to the student's registering for classes.

The following "Cost of Education Budget for 9 Months" is a guide for single students:

In Parents' Home		On- Campus		Off- Campus	
\$	100	\$	100	\$	100
	400		400		400
1	,500	3	,350	3	,600
	700	1	,000	1	,000
	500		400		650
\$3	,200	\$5	,250	\$5	,750
	\$ 1	Home \$ 100 400 1,500 700	Home Car \$ 100 \$ 400 1,500 3 700 1 500	Home Campus \$ 100 \$ 100 400 400 1,500 3,350 700 1,000 500 400	Home Campus Car \$ 100 \$ 100 \$ 400 400 3,350 3 700 1,000 1 500 400 1

The above costs are only approximate and are subject to change.

Enrollment Fee Refund Policy

A refund will be made, upon request, for any enrollment fee paid by a student in excess of that computed for program changes completed during the first two weeks of the class. After the second week of class no refunds will be allowed. Students eligible for refunds must obtain a Request for Refund from the Admissions and Records Office.

Parking Fee Refund Policy

Refunds will be made prior to first class meeting only.

CERTIFICATES



CERTIFICATES

The College offers many programs of study leading to certificates. Certificate programs are designed to prepare the vocational students for employment. Requirements of each such certificate have been determined by the department offering the program with the help of its advisory committee.

For students entering Columbia College for the first time in Fall, 1988, the following certificate requirements are valid through the 1991-92 academic year. A student taking more than four (4) years of continuous attendance to complete may only use certificate requirements in effect up to four (4) years prior to the date of completion.

In order to qualify for a certificate, a student must complete required and elective courses with at least a Grade Point Average of 2.0 ("C"). No more than 30 percent of the courses required for the certificate may be fulfilled with parallel courses completed at other accredited institutions.

Units earned in obtaining a certificate may be applied toward the 60 units required for an Associate degree.

For certificates listing competency requirements, contact the Office of Instruction for further information.

Certificates of achievement are offered in the following disciplines:

Automotive Technology Engine Repair Front-end and Brake General Auto Repair Power Train **Business Administration** Management Retailing Child Development Computer Science **Emergency Medical Services** Fire Technology Forestry Technology Hospitality Management Culinary Arts Food Service Technology Hotel Management **Human Services** Disabled Gerontology Social Welfare Natural Resources Interpretation Natural Resources Technology Office Occupations Clerk Typist General Clerk Legal Secretarial Medical Receptionist Medical Transcription Secretarial

Following are the specific requirements for the certificate programs listed. Completion of certain certificate programs may necessitate attending classes during evening only or a combination of both day and evening classes.

COMPLETION OF CERTIFICATE

Students must complete a certificate application in the Admissions and Records Office during the semester in which they are fulfilling the certificate requirements.

AUTOMOTIVE TECHNOLOGY GENERAL AUTO REPAIR

REQUIRED COUR	SES: UNITS
Auto, Tech. 101	Intro. to Auto Technology
Auto, Tech. 103	Preventive Maintenance 1
Auto, Tech. 112	Pulling and Installing Engines
Auto, Tech. 114	Machine Shop Procedures
Auto, Tech. 116	Engine Rebuilding 4
Auto Tech. 117a	Fuel Systems
Auto, Tech. 117b	Electro Mechanical Carburetors 1
Auto, Tech. 118	Emission Control
Auto. Tech. 119a	Gasoline Engine Tune-up: Basic
Auto, Tech. 119b	Gasoline Engine Tune-up: Advanced 2
Auto. Tech. 130	Manual Transmission Rebuilding 1
Auto, Tech. 134	Axles and Drive Lines
Auto. Tech. 136	Automatic Transmission - GM 2
Auto. Tech. 138	Automatic Transmission - Ford 1
Auto, Tech. 140a	Brakes - Drum 2
Auto, Tech. 140b	Brakes - Disc
Auto. Tech. 144a	Front End and Suspension
Auto, Tech. 144b	Front End and Suspension 2
Auto, Tech. 150a	Electrical Theory
Auto, Tech. 150b	Charging Systems
Auto, Tech. 150c	Starting and Ignition Systems 2
Auto, Tech. 150d	Lighting and Chassis Electrics
Auto, Tech. 170a	Practical Laboratory 2
Auto, Tech. 170b	Practical Laboratory
	TOTAL REQUIRED UNITS 41

AUTOMOTIVE TECHNOLOGY ENGINE REPAIR & ENGINE PERFORMANCE

	ENGINE	ALI IIII W Z. C.
RE	EQUIRED COUR	SES: UNITS
	ito. Tech. 101	Intro. to Auto Technology
0.00	ito. Tech. 112	Pulling and Installing Engines
Aı	ato. Tech. 114	Machine Shop Procedures
	uto. Tech. 116	Engine Rebuilding4
A	uto. Tech. 117a	Fuel Systems
A	uto. Tech. 117b	Electro Mechanical Carburetors
A	uto. Tech. 118	Emission Control
A	uto. Tech. 119a	Gasoline Engine Tune-up: Basic
A	uto. Tech. 119b	Gasoline Engine Tune-up: Advanced 2
A	uto. Tech. 120	Computerized Engine Control (G.M.)
A	uto. Tech. 121	Electronic Fuel Injection
A	uto. Tech. 123	Computerized Engine Control
	uto. Tech. 125	Electronic Fuel Injection
A	uto. Tech. 170a	or 170b or 170c or 170d
		Practical Laboratory
6		TOTAL REQUIRED UNITS 22

AUTOMOTIVE TECHNOLOGY FRONT-END AND BRAKE

REQUIRED COUR	SES: UNITS
Auto. Tech. 101	Intro. to Auto Technology 1
Auto Tech. 140a	Brakes - Drum 2
Auto Tech. 140b	Brakes - Disc 1
Auto Tech. 144a	Front End and Suspension 2
Auto Tech. 144b	Front End and Suspension 2
Auto Tech. 170a or	170b or 170c or 170d
	Practical Laboratory
	TOTAL REQUIRED UNITS 10

AUTOMOTIVE TECHNOLOGY POWER TRAIN

REQUIRED	COUR	SES: U	NITS
Auto. Tech.	101	Intro. to Auto Technology	1
Auto. Tech.	130	Manual Transmission Rebuilding	
Auto. Tech.	134	Axles and Drive Lines	1
Auto. Tech.	136	Automatic Transmission - GM	2
Auto. Tech.	138	Automatic Transmission - Ford	1
Auto. Tech.	170a or	170b or 170c or 170d	
		Practical Laboratory	2
		TOTAL REQUIRED UN	ITS 8

BUSINESS ADMINISTRATION

MANAGEMENT

REQUIRED COUR	SES: UNITS
Bus. Ad. 101	Principles of Business
Bus. Ad. 115a	Commercial Law 3
Bus. Ad. 115b	Commercial Law
Bus. Ad. 120	Principles of Marketing 3
Bus. Ad. 130a	Principles of Accounting and 4
Bus. Ad. 130b	Principles of Accounting 4
	or
Bus. Ad. 61	Small Business Accounting 4
Bus. Ad. 140	Principles of Management 3
Bus. Ad. 150	Small Business Management
Econ. 101a	Principles of Economics
Econ. 101b	Principles of Economics
Off. Oc. 68	Business Communications
	TOTAL REQUIRED UNITS 33-37

PROVEN COMPETENCY REQUIREMENT: Business Mathematics Examination or

Bus. Ad. 63 Busin			 	4.53
RECOMMENDE	D:			
Work Exp. 179	Occupational	Work Experience	 Min.	4



BUSINESS ADMINISTRATION

	RETAILING
REQUIRED COUR	RSES UNITS
Bus. Ad. 60a	Bookkeeping and3
Bus. Ad. 60b	Bookkeeping3
	or
Bus. Ad. 61	Small Business Accounting 4
Bus. Ad. 101	Principles of Business
Bus. Ad. 115a	Commercial Law 3
Bus. Ad. 120	Principles of Marketing
Bus. Ad. 123	Sales
Bus. Ad. 125	Advertising
Econ. 101a	Principles of Economics
Econ. 101b	Principles of Economics
Off. Oc. 68	Business Communications
	TOTAL REQUIRED UNITS 30-32
PROVEN COMPE	TENCY REQUIREMENT:
Business Mathemat	
Bus. Ad. 63 Busines	s Mathematics 3
	OPTIONAL COURSES:
Bus. Ad. 140	Principles of Management 3
Work Exp. 179	Occupational Work Experience Min. 4
	DAMES AAAAA
	THE DESIGNATION OF THE PARTY OF
C	CHILD DEVELOPMENT
REQUIRED COUR	SES: UNITS
Child Dev. 101	Principles of Child Dev
Child Dev. 103	Practices in Child Dev
Child Dev. 105	Child Nutrition
Child Dev. 107	Child Health & Safety 1
Child Dev. 110	Creative Activities I
Child Dev. 111	Creative Activities II
Child Dev. 115	Observation & Participation
Child Dev. 122	Child, Family, Community
Child Day 125	Infant/Toddler Core

Child Care/Nursery School Administration ... 3

TOTAL REQUIRED UNITS 24

COMPUTER SCIENCE

School Age Children

Child Dev. 130

REQUIRED COURSES: UN		
Computer Sc. 101	Intro. to Computer Concepts 2	
Computer Sc. 103	Computer Operating Systems 1	
Computer Sc. 125	Pascal Programming I	
Computer Sc. 126	Pascal Programming II 3	
Computer Sc. 120	BASIC Programming	
	or	
Computer Sc. 127	FORTRAN Programming	
	or	
Computer Sc. 129	COBOL Programming 3	
	or	
Computer Sc. 132	RPG II Programming 3	
Computer Sc. 140	Assembly Language Programming	
Computer Sc. 155	Data Base Management	
English 101a	Reading and Composition 3	
Mathematics 104	Logic	
	or	
Philosophy 104	Logic 3	
Mathematics 110	Finite Mathematics4	
	TOTAL REQUIRED UNITS 28	

OTAL REQUIRED UNITS 2

Real Estate Search and Rescue Teacher Aide

COMPUTER SCIENCE APPLIED COMPUTER STUDIES

REQUIRED COUR	SES: UNITS
Computer Sc. 101	Intro. to Computer Concepts 2
Computer Sc. 103	Computer Operating Systems 1
Computer Sc. 107	Microcomp. Data File Mgmt 1
Computer Sc. 110	Financial Worksheets
Computer Sc. 125	PASCAL Programming 1 3
Computer Sc. 155	Data Base Management 3
Bus. Ad. 130a	Accounting 4
Bus. Ad. 130b	Accounting 4
Bus. Ad. 140	Principles of Management3
English 101a	Reading and Composition 3
Office Oc. 106	Beginning Word Processing 1
	TOTAL REQUIRED UNITS 27

TOTAL REQUIRED UNITS 27

PROVEN COMPET	ENCY REQUIREMENT:	
Business Mathematic	s examination or	
Bus. Ad. 63 Business	Mathematics	
RECOMMENDED O	OPTIONAL COURSES:	
One or more of the f	following programming courses:	
Computer Sc. 120	BASIC Programming	
Computer Sc. 126	PASCAL Programming II	
Computer Sc. 127	FORTRAN Programming I	
Computer Sc. 129	COBOL Programming II	
Computer Sc. 132	RPG II Programming	

EMERGENCY MEDICAL SERVICES

REQUIRED CO	URSES: UNITS
E.M.S. 103	Emergency Medical Technician Training 6
S.A.R. 103	Environmental Injuries 1
S.A.R. 134	Helicopter Operations 1
S.A.R. 153	Vehicle Extrication
	AND THE RESERVE AND THE PROPERTY OF THE PROPER

TOTAL REQUIRED UNITS 9

FIRE TECHNOLOGY

REQUIRED COUR	SES UNITS
E.M.S. 103	Emergency Medical Technician Training 6
Fire Tech. 50	Fire Service Organization and Responsibility 1
Fire Tech. 51	Combust. & Exting. Theory
Fire Tech. 52	Protect. Equip. & Safety 1
Fire Tech. 53	Self-contained Breathing Apparatus 1.5
Fire Tech. 54	Ropes, Knots, Hitches 1
Fire Tech. 56	Forcible Entry 1
Fire Tech. 58	Hose, Nozzles, Fittings 3
Fire Tech. 60	Hose Loads and Uses
Fire Tech. 61	Ground Ladders 2.5
Fire Tech. 68	Rescue
Fire Tech. 69	Ventilation5
Fire Tech. 71	Fire Control5
Fire Tech. 72	Fire Streams5
Fire Tech. 73	Fire Extinguishers5
Fire Tech. 74	Overhaul5
Fire Tech. 76	Property Conservation 2
Fire Tech. 77	Fire Protection Systems
Fire Tech. 78	Size-up
Fire Tech. 79	Wildland Fire Fighting5
Fire Tech. 81	Hazardous Materials5
Fire Tech. 82	Fire Investigation5
Fire Tech. 83	Communications5
Fire Tech. 84	Vehicle Extrication
	TOTAL REQUIRED UNITS 29.5

FORESTRY TECHNOLOGY

REQUIRED COUR	RSES: UNIT	
Computer Sc. 101	Intro. to Comp. Concepts	
Fire Tech. 117	Wildland Fire Control	
Forest Tech. 50	Intro. to Technical Forestry	
	or	
Forestry 101	Introduction to Professional Forestry	
Forestry Tech. 53	Forest Surveying Techniques	
Forestry Tech. 56	Tree & Plant Identification	
	or	
Forestry 110	Dendrology	
Forestry Tech. 62	Applied Forest Inventory and Management	
Nat. Res. Tech. 50	Natural History and Ecology	
Nat. Res. Tech. 52	Applied Wildlands Management	
Nat. Res. Tech. 60	Aerial Photog. & Map Interpretation	
	or	
S.A.R. 122	Wilderness Navigation	
Nat. Res. Tech. 81	California Wildlife	
Nat. Res. 100	Environmental Conservation	
Nat. Res. 109	Parks & Forests Law Enforcement	
	TOTAL REQUIRED UNITS 32-3	
DDOVEN COMPE	TENCY REQUIREMENT:	
Mathematics Exam		
	sic Mathematics (or higher)	
Reading Examination or		
English 51 or 101a		
Typing Examinatio		
Off. Oc. 101a Keyl		
	Typing Applications 1-	
Writing Examination		

HOSPITALITY MANAGEMENT **CULINARY ARTS**

Appropriate Summer Employment Approved by Forestry Staff.

ADDITIONAL REQUIREMENT:

REQUIRED COU	RSES: UNITS
Hosp. Mgmt. 103	Marketing of Hospitality Services 3
Hosp. Mgmt. 131	Dining Room Service
Hosp. Mgmt. 136	Commercial Baking: Adv 2
Hosp. Mgmt. 140a	Classical Cuisine: Beg
Hosp. Mgmt. 140b	Classical Cuisine: Inter
Hosp. Mgmt. 142	Garde Manger 2
Hosp. Mgmt. 147a	Beverage Management
	or
Hosp. Mgmt. 147b	Beverage Management 3
	TOTAL REQUIRED UNITS 19

HOSPITALITY MANAGEMENT FOOD SERVICE TECHNOLOGY

ro	OD SERVICE TECHNOLOGI
REQUIRED COUR	SES: UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry 3
Hosp. Mgmt. 130	Food Service Management
Hosp. Mgmt. 132	Dining Room Management 1.5
	Intro. to Commercial Food Preparation 3.5
Hosp. Mgmt. 133b	Intro. to Commercial Food Preparation 3.5
Hosp. Mgmt. 135	Commercial Baking
Hosp. Mgmt. 139	Food Science and Nutrition3
Hosp. Mgmt. 144	Meat Analysis
	TOTAL REQUIRED UNITS 21.5

HOSPITALITY MANAGEMENT HOTEL MANAGEMENT

UNITS

REQUIRED COURSES:

KEQUIKED COOL	CIVIIS	
Hosp. Mgmt. 101	Introduction to Hospitality Industry 3	
Hosp. Mgmt. 103	Marketing of Hospitality Services 3	
Hosp. Mgmt. 112	Front Office Management/Hotel Catering 3	
Hosp. Mgmt. 114	Intro. to Maintenance and Housekeeping 1.5	
Hosp. Mgmt. 116	Laws of Innkeeping 1	
Hosp. Mgmt. 130	Food Service Management 2	
Hosp. Mgmt. 160	Intro. to Travel-Tourism Industry/Tours 2	
Bus. Ad. 179	Work Experience 4	
	TOTAL REQUIRED UNITS 19.5	
RECOMMENDED	OPTIONAL COURSES:	
Bus. Ad. 60a	Bookkeeping and	
Bus. Ad. 60b	Bookkeeping 3	
	or	
Bus. Ad. 130a	Accounting and 4	
Bus. Ad. 130b	Accounting	
Off. Oc. 136	Electronic Printing Calculators 1	
	HUMAN SERVICES	

	DISABLED
REQUIRED COUR	RSES: UNITS
Physical Ed. 105	Personal Fitness Concepts/Evaluation 3
Physical Ed. 173a	Lifetime Fitness Program I 1-3
Psychology 101	General Psychology 3
Psychology 103	Social Psychology 3
Psychology 125	Biofeedback and Stress Management 3
Psychology 130	Personal and Social Adjustment 3
Sociology 101	Introduction to Sociology
Sociology 110	Deviance and Conflict
Sociology 179	Work Experience
	TOTAL REQUIRED UNITS 25-27

HUMAN SERVICES GERONTOLOGY

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3
28

HUMAN SERVICES SOCIAL WELFARE

REQUIRED COU	RSES: UNITS
Physical Ed. 105	Personal Fitness Concepts/Evaluation 3
Physical Ed. 173a	Lifetime Fitness I
Psychology 101	General Psychology
Psychology 130	Personal and Social Adjustment
Psychology 145a	Developmental Psychology 3
Psychology 145b	Developmental Psychology 3
Sociology 101	Introduction to Sociology
Sociology 110	Deviance and Conflict
Sociology 112	Family, Marriage and the Individual 3
Sociology 128	Death and Dying
Sociology 179	Work Experience
Speech 135	Interpersonal Communication
	TOTAL REQUIRED UNITS 34-36

NATURAL RESOURCES INTERPRETATION

REQUIRED COU	RSES: UNITS
Art 145	Field Photography
Biology 58	Birds of the Mother Lode 1
Biology 59	Wildflowers of the Mother Lode 1-1.5
Earth Sci. 59	Geology of the Mother Lode
Earth Sci. 125	Geology of the National Parks
For. Tech. 56	Tree and Plant Identification
Forestry 110	Dendrology
Health Ed. 113	Adv. First Aid and Emergency Care 3
History 149	The Mother Lode
	or
History 155	The American Frontier
Nat. Res. 100	Environmental Conservation 3
Nat. Res. 109	Parks and Forests Law Enforcement 2
Nat. Res. 130	Wild Edible and Useful Plants 3
Nat. Res. Tech. 50	Natural History and Ecology 2
Nat. Res. Tech. 52	Applied Wildlands Management
Nat. Res. Tech. 55	Interpretive Guided Tours 2
Nat. Res. Tech. 81	California Wildlife
	TOTAL REQUIRED UNITS 37-37.5

NATURAL RESOURCES TECHNOLOGY

REQUIRED COU	
Earth Sci. 125	Geology of National Parks 3
Fire Sci. 117	Wildland Fire Control
For. Tech. 50	Intro. to Technical Forestry
Forestry 101	Introduction to Professional Forestry 3
For. Tech. 53	Forest Surveying Techniques 3
For. Tech. 56	Tree & Plant Identification
Forestry 110	Dendrology 3
Nat. Res. Tech. 50	Natural History and Ecology 2
Nat. Res. Tech. 52	Applied Wildlands Management
Nat. Res. Tech. 55	Interpretive Guided Tours 2
Nat. Res. Tech. 60	Aerial Photog. & Map Interpretation 2 or
S.A.R. 122	Wilderness Navigation 2
Nat. Res, Tech. 81	California Wildlife 4
Nat. Res. 100	Environmental Conservation
Nat. Rex. 109	Parks & Forests Law Inforcement 2
	TOTAL REQUIRED UNITS 31-32

PROVEN COMPETENCY REQUIREMENTS:	
Mathematics Examination or	
Math 50 Basic Mathematics (or higher)	100
Reading Examination or	
English 51 or 101a	
Typing Examination or	
Off. Oc. 101a Keyboarding or	
Off. Oc. 101b Basic Typing Applications 1-	1
Writing Examination or	
English 51 or 101a	

OFFICE OCCUPATIONS CLERK TYPIST

REQUIRED COU	RSES: UNITS
Bus. Ad. 63	Business Mathematics
	Bookkeeping and 3
Bus. Ad. 60a Bus. Ad. 60b	Bookkeeping3
Bus. Ad. 61	or Small Business Accounting 4 or
Bus. Ad. 130a	Accounting and 4
Bus. Ad. 130b	Accounting
Comp. Sci. 101	Intro. to Computer Concepts 2
Office Oc. 65	Business English
Office Oc. 68	Business Communications
Office Oc. 103	Intermediate Typing 3
Office Oc. 108	Word Processing: Electronic Typewriter 1
Office Oc. 109	or Word Processing: Display System
Office Oc. 130	Filing Systems and Records Management 2
Office Oc. 132	Machine Transcription
Office Oc. 136	Electronic Printing Calculators
Office Oc. 138	Office Procedures 3
	TOTAL REQUIRED UNITS 27-32

OFFICE OCCUPATIONS GENERAL CLERK

REQUIRED COU	DSES: UNITS
Bus. Ad. 63	Business Mathematics
Bus. Ad. 60a Bus. Ad. 60b	Bookkeeping and
Bus. Ad. 61	or Small Business Accounting4
Bus. Ad. 130a Bus. Ad. 130b	Accounting and
Comp. Sci. 101 Comp. Sci. 103 Office Oc. 65 Office Oc. 68 Office Oc. 103 Office Oc. 130 Office Oc. 136	Intro. to Computer Concepts 2 Computer Operating Systems 1 Business English 3 Business Communications 3 Intermediate Typing 3 Filing Systems and Records Management 2 Electronic Printing Calculators 1 TOTAL REQUIRED UNITS 22-26

OFFICE OCCUPATIONS LEGAL SECRETARIAL

REQUIRED COUR	SES. UNITS
Bus. Ad. 58	Pegboard Payroll
	Commercial Law
Bus. Ad. 115a	Commercial Law
Bus. Ad. 115b	Intro. to Computer Concepts 2
Comp. Sci. 101	Business English
Office Oc. 65	Business English
Office Oc. 68	Business Communications 3
Office Oc. 103	Intermediate Typing
Office Oc. 108	Word Processing: Electronic Typewriter 1
Office Oc. 109	Word/Information Processing
Office Oc. 112	Intermediate Shorthand4
Office Oc. 130	Filing Systems/Records Management 2
*Office Oc. 132	Machine Transcription
*Office Oc. 154	Legal Transcription/Terminology 2
Office Oc. 157	Legal Office Procedures 3
J	TOTAL REQUIRED UNITS 34
	10

*Must earn at least a letter grade of "C" in Office Oc. 132 before enrolling in Office Oc. 154.

OFFICE OCCUPATIONS MEDICAL RECEPTIONIST

REQUIRED COUL	RSES: UNITS
Bus. Ad. 58	Pegboard Payroll
Bus. Ad. 63	Business Math3
Comp. Sci. 101	Intro. to Computer Concepts 2
Office Oc. 65	Business English
Office Oc. 68	Business Communications 3
Office Oc. 103	Intermediate Typing 3
Office Oc. 108	Word Processing: Electronic Typewriter 1
Office Oc. 109	Word/Information Processing
Office Oc. 132	Machine Transcription 2
Office Oc. 136	Electronic Printing Calculators 1
Office Oc. 138	Office Procedures 3
Office Oc. 140	Medical Terminology 3
Office Oc. 142a	Medical Transcription
Office Oc. 144	Medical Insurance
	TOTAL REQUIRED UNITS 31

OFFICE OCCUPATIONS MEDICAL TRANSCRIPTION

REQUIRED COUL	UNITS
	Intro. to Computer Concepts 2
Comp. Sci. 101	Business English
Office Oc. 65	Business Communications
Office Oc. 68	Intermediate Typing
Office Oc. 103	Intermediate Typing
Office Oc. 106	Beginning Word Processing
*Office Oc. 132	Machine Transcription
Office Oc. 140	Medical Terminology3
*Office Oc. 142a	Medical Transcription
*Office Oc. 142b	Medical Transcription
	TOTAL REQUIRED UNITS 22

*Must earn at least a letter grade of "C" in Office Oc. 132 before enrolling in Office Oc. 142ab.



OFFICE OCCUPATIONS SECRETARIAL

REQUIRED COUR	SES: UNITS
Bus. Ad. 63	Business Mathematics
Bus. Ad. 60a	Bookkeeping 3
Comp. Sci. 101	Intro. to Computer Concepts 2
Office Oc. 65	Business English
Office Oc. 68	Business Communications
Office Oc. 103	Intermediate Typing 3
Office Oc. 108	Word Processing: Electronic Typewriter 1
Office Oc. 109	Word/Information Processing
Office Oc. 110	ABC Beginning Shorthand 4
Office Oc. 130	Filing Systems and Records Management 2
Office Oc. 132	Machine Transcription 2
Office Oc. 136	Electronic Printing Calculators 1
Office Oc. 138	Office Procedures
	TOTAL REQUIRED UNITS 32

REAL ESTATE

	REAL ESTATE
REQUIRED COUR	RSES: UNITS
Bus. Ad. 63	Business Math 33
Bus. Ad. 101	Principles of Business
Real Estate 101	Principles of Real Estate 3
Real Estate 105	Real Estate Practice
Real Estate 110	Legal Aspects of R.E
Real Estate 115	Real Estate Finance
Real Estate 120	Real Estate Appraisal
Real Estate 125	Real Estate Economics

SEARCH AND RESCUE FIRE SERVICE

	=
REQUIRED COURSES: UN	
Health Oc. 103	Emergency Med. Tech. Training
S.A.R. 136	Swift Water Rescue
S.A.R. 150	Rope Rescue 1.5
S.A.R. 151	Rapelling Safety/Tower Rescue 1
S.A.R. 153	Vehicle Extrication 1
S.A.R. 154	Fire Service Ladders as Rescue Tools 1
S.A.R. 156	Emergency Trench Shoring 1
S.A.R. 158	Heavy Rescue Training 1.5
	TOTAL 13.5

PLUS 2 UNITS FROM ANY OTHER COURSES IN	
THE SEARCH AND RESCUE CURRICULUM	2

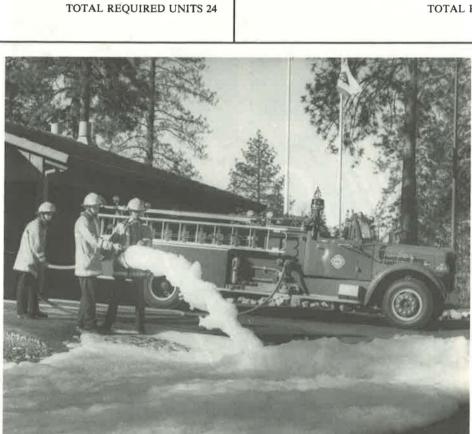
TOTAL REQUIRED UNITS 15.5

Students are advised that a number of Search and Rescue courses that make up the Certificate of Achievement are offered by the College only at off-campus locations in other parts of the state. A student wishing to complete the Certificate Program should plan to travel considerable distances in order to take these courses.

TEACHED AIDE

	TEACHER AIDE
REQUIRED COUL	RSES: UNITS
Teacher Aide 55a	Teacher Aide Training: Beg
Teacher Aide 55b	Teacher Aide Training: Adv 3
Teacher Aide 65	Reading Fundamentals for Teacher Aides 2
	TOTAL REQUIRED LINITS 8







GRADUATION AND TRANSFER REQUIREMENTS

GRADUATION REQUIREMENTS AT COLUMBIA COLLEGE:

Columbia College will confer the Associate in Arts or the Associate in Science Degree upon completion of the following requirements. (The Associate in Science Degree is awarded for majors in physical or biological sciences or in occupational programs; the Associate in Arts Degree is awarded for all other majors.)

- 1. TOTAL UNITS: Satisfactory completion of 60 or more semester units, of which the last 12 required units must be taken in residence at Columbia College. Not more than six units of Learning Skills courses each semester may be used to meet graduation requirements.
- 2. SCHOLARSHIP: A cumulative Grade Point Average of not less than 2.0 ("C" average).
- 3. MAJOR: Satisfactory completion of any AA/AS Major listed in the Columbia College Catalog. All courses in the major must be completed with a "C" or better grade. More than one Associate Degree may be awarded to a student who completes all applicable requirements plus 12 extra units in residence (72 or more total semester units). No courses of the first major may be counted in the major for the second degree. Each additional degree must meet the requirements in effect at the time the new degree major is declared.

COMPETENCY REQUIREMENTS: State Law mandates that students earning the Associate degree must meet competency requirements in reading, composition, and math. These requirements may be met by completing the following courses with a grade of "C" or better:

English 101a, Reading and Composition

Bus. Ad. 63, Business Math or Mathematics 101 or any higher level mathematics course

They may also be met through completion of a challenge examination with a grade of "C" or better.

INSTITUTIONAL REQUIREMENTS: Two Physical Education activity courses. (Student must petition for this requirement to be waived.)

GENERAL EDUCATION BREADTH REQUIREMENTS: Satisfactory completion of each Area of General Education "A" through "E" below, by choosing suitable courses from those listed under each Area. All courses must be completed with a grade of "C" or better. Students wishing to transfer to California State Universities should follow the requirements listed in the right-hand column. Students who do not expect to transfer, but wish to graduate from Columbia College with the AA or AS Degree, should follow the requirements listed in the left-hand column. The courses suitable to satisfy BOTH patterns are listed in the center column. Transfer students are encouraged to satisfy both patterns at the same time by careful selection of courses, in order to graduate with the AA/AS Degree as well as transferring to a C.S.U. campus.

TRANSFER REQUIREMENTS TO A CALIFORNIA STATE UNIVERSITY:

Columbia College will send certification of General Education Breadth Requirements to the California State University campus to which the student transfers. Full certification consists of not less than 39 semester units from Areas "A" through "E" below. In addition, the following transfer requirements apply:

- 1. TOTAL UNITS: Satisfactory completion of 56 to 70 transferrable semester units. If you wish to transfer with less than 56 transferrable units, you must submit satisfactory test scores from either the Scholastic Aptitude Test (SAT) or American College Testing Program (ACT). For possible exemption from ACT and SAT tests, see catalog of college to which student plans to transfer. (At San Luis Obispo, test scores are required of all transfer students.)
- **2. SCHOLARSHIP:** A cumulative Grade Point Average of not less than 2.0 ("C" average).
- **3. MAJOR:** Satisfactory completion of lower division prerequisites for the BA/BS Major listed in the catalog of the California State University transfer campus.

FOR AA/AS GRADUATION:

Three courses required: one each from A.1, A.2, A.3.

SUITABLE COURSES FOR EACH AREA OF GENERAL EDUCATION:

AREA A. COMMUNICATION AND CRITICAL THINKING:

A.1 Oral Communication

Speech 101, Fundamentals of Speech (3).

A.2 Written Communication

English 101a, Reading and Composition, Beginning (3).

A.3 Critical Thinking

Mathematics 104, Introduction to Logic (3). Philosophy 104, Introduction to Logic (3). Computer Science 120, BASIC Programming (3). Computer Science 125, PASCAL Programming (3). Computer Science 127, FORTRAN Programming (3). Computer Science 129, COBOL Programming (3). Computer Science 132, RPG II Programming (3).

FOR TRANSFER:

Three Courses required: one each from A.1, A.2, A.3.

FOR AA/AS GRADUATION:

Three courses required: one each from B.1, B.2, and B.3, including one laboratory course from either B.1 or B.2. Also acceptable in B.3: Business Administration 63, Business Mathematics (3), Mathematics 60, Geometry (4), and Mathematics 101, Intermediate Algebra (4)

THE PHYSICAL UNIVERSE, ITS LIFE FORMS AND AREA B. MATHEMATICAL CONCEPTS:

B.1 Physical Sciences:

Chemistry 100, Fundamentals of Chemistry (4), (lab course). Chemistry 101a, General Chemistry (5),

(lab course).

Earth Science 114, Physical Geology (4), (lab course).

Earth Science 133, Global Tectonic Geology (3).

Earth Science 142, Descriptive Astronomy (3).

Earth Science 143, Astronomy Laboratory (1), (lab course).

Earth Science 161, Fundamentals of Meterorology (3), (lab course).

Earth Science 171, Fundamentals of Oceanography (3),

(lab course). Physics 100, Conceptual Physics (3).

Physics 120a, General Physics (5),

(lab course).

FOR TRANSFER:

Three courses required: one each from B.1, B.2, and B.3, including one laboratory course from either B.1 or B.2, and not less than nine units total from AREA B.

Area B Continued

B.2 Biological Sciences:

Biology 108, Fundamentals of Biology (3). Biology 109, Fundamentals of Biology Laboratory (1), (lab course).

Biology 111, Principles of Biology (4),

(lab course).

Biology 120, Fundamentals of Plant Biology (2),

(lab course). Biology 121, Principles of Plant Biology (4),

(lab course).

Biology 131, Principles of Animal Biology (5), (lab course).

B.3 Quantitative Reasoning and Mathematics:

Math. 102, Trigonometry (4).

Math. 103, College Algebra (4).

Math. 105, Elements of Statistics (4). Math. 110, Finite Mathematics (4).

Math. 120a, Calculus with Analytic Geometry (4).

FOR TRANSFER:

Three courses required, including

one each from C.1 and C.2.

FOR AA/AS GRADUATION:

Two courses required: one each from C.1 and C.2

AREA C. ARTS, LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGE:

C.1 Arts (Art, Dance, Drama, Music):

Art 111a, History of Art:

Ancient and Medieval (3). Art 111b, History of Art:

Renaissance, Baroque, Modern (3).

Drama 102, Oral Expression and Interpretation (3).

Music 100. Music Fundamentals (2).

Music 102, Introduction to Music (2). Music 110a, Survey of Music History (3).

Music 110b, Survey of Music History (3).

Physical Education 117, Choreography

and Composition (3).

C.2 Literature, Philosophy, Foreign Language:

English 101b, Reading and Composition (3).

English 111, Film Appreciation (3). English 117a, Literature of the United States (3).

English 117b, Literature of the United States (3).

English 146a, Survey of English Literature (3).

English 146b, Survey of English Literature (3).

Humanities 101, Old World Culture (3). Humanities 102, Modern Culture (3).

Philosophy 101, Introduction to Philosophy (3).

Philosophy 115, World Religions (3). Philosophy 125, Twentieth Century Philosophy (3).

Spanish 101a, Spanish: Beginning (4).

Spanish 101b, Spanish: Beginning (4).

FOR AA/AS GRADUATION:

Two courses required: one from either D.1 or D.2, and one from D.3, Also acceptable in D.2: History 155, The American Frontier (3).

AREA D. SOCIAL POLITICAL AND ECONOMIC INSTITUTIONS AND BEHAVIOR:

D.1 General Sciences:

Anthropology 101, Introduction to Anthropology: Physical (3). Economics 101a, Principles of Economics: Macro-Economics (4). Economics 101b, Principles of Economics: Micro-Economics (4). Political Science 110, American Political Thought (3). Political Science 115, International Relations (3). Political Science 125, Comparative Political Systems (3). Psychology 101, General Psychology (3). Sociology 101, Introduction to Sociology (3). Sociology 102, American Social Patterns (3).

D.2 Civilization and Cultures:

Anthropology 102, Introduction to Anthropology: Cultural (3).
Anthropology 115, Indians of North America (3).
Geography 102, Introduction to Cultural Geography (3).
Geography 105, Physical Geography (3).
History 104a, World Civilizations: to 1650 (3).
History 104b, World Civilizations: 1650 to Present (3).

D.3 United States History and Government:

History 117a, United States: to 1865 (3). History 117b, United States: 1865 to Present (3). Political Science 101, Constitutional Government (3).

FOR TRANSFER:

Four courses required: one each from D.1 and D.2, and two from D.3. (Refer to Note 2 below for more information about D.3.)

FOR AA/AS GRADUATION:

Required: One course in E.

SUITABLE COURSES FOR EACH AREA OF GENERAL EDUCATION:

AREA E. LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT:

Health Education 101, Health and Fitness Education (3). Physical Education 105, Personal Fitness Concepts & Evaluation (3). Psychology 130, Personal & Social Adjustment (3). Social Sciences 140, Human Sexual Behavior (3).

FOR TRANSFER:

Required: One course in E. Also acceptable in E: Physical Education 173a, Lifetime Fitness Program (3) and/or Physical Education 173b, Lifetime Fitness Program (3).

SUPPLEMENTARY NOTES:

- These requirements for graduation and General Education apply to Associate Degree and transfer students entering Columbia College for the first time in Fall semester 1988, and are valid through the 1991-92 academic year. Students previously enrolled may continue to follow their older catalog, but those taking more than four years of continuous attendance to graduate must use graduation requirements not older than four years.
- 2. California law includes a requirement in U.S. History and Government for the BA/BS Degree. Completion of two courses from D.3 will meet the requirement, but only three units will be credited toward the 39 certified General Education units. (Units above 39 will count instead for elective credit.) Some California State University campuses place the U.S. History and Government requirement outside the General Education requirement, while others include it within. Consult the catalog of the California State University campus to which you will transfer, or see your counselor for clarification.
- 3. Double-counting units: Courses used to satisfy General Education Breadth Requirements may also be used to satisfy major requirements in both patterns above, except for the Columbia College Liberal Studies major. For the A.A. Liberal Studies major, the same courses may not be used for both the Major and the General Education Breadth Requirements.
- 4. Students transferring to other than the C.S.U. system are advised to follow the requirements listed in the catalog of the transfer institution.
- 5. Beginning Fall 1988, all students are required to complete two high school years or one college year of foreign language.

NOTICE OF INTENT TO GRADUATE: The student must file a Notice of Intent to Graduate from Columbia College in the Admissions and Records Office no later than the seventh week of the semester in which completion

of the graduation requirements is expected. Graduation requirements may be completed during any college term, but degrees are conferred only at graduation exercises at the close of the Spring Semester.

COLUMBIA COLLEGE MAJORS

Students are required to complete an academic major to fulfill the Associate Degree requirements of Columbia College. All courses in the major must be completed with a grade of "C" or better. (Students transferring to a four-year college or university should consult the catalog of the transfer school for lower division requirements for the transfer major.) Following are the course requirements for each major currently offered at Columbia College Columbia College.

ART

REQUIRED CO	URSES: UNIT	S
Art 101	Freehand Drawing	3
Art 102	Basic Color & Design	3
Art 109a	Life Drawing: Beginning 1	.5
Art 111a	History of Art: Ancient and Medieval	3
Art 111b	History of Art: Ren., Baroque, Modern	3
Art 121a	Painting, Beginning	3
Art 123a	Watercolor: Beginning	3
Art 131a	Ceramics: Introductory	3
	TOTAL REQUIRED UNITS 22	.5

ART **PHOTOGRAPHY**

REQUIRED C	URSES: UNITS	
Art 102	Basic Color & Design	
Art 141a	Photography: Beginning	
Art 141b	Photography: Intermediate 3	
Art 141c	Photography: Advanced	
Art 142	Color Photo.: Slidemaking	
Art 148	Special Topics in Photography	
	TOTAL REQUIRED UNITS 18	The same

AUTOMOTIVE TECHNOLOGY

REQUIRED COUR	SES:	UNITS
Auto, Tech. 101	Intro. to Auto. Tech	1
Auto. Tech. 114	Machine Shop Procedures	2
Auto. Tech. 116	Engine Rebuilding	4
Auto. Tech. 117a	Fuel Systems	
Auto. Tech. 119a	Gasoline Engine Tune-up: Basic	2
Auto. Tech. 134	Axles and Drive Lines	
Auto. Tech. 136	Auto. Transmission (GM)	
Auto. Tech. 140a	Brakes (Drum)	2
Auto. Tech. 144a	Front-end and Suspension	2
Auto. Tech. 150a	Electrical Theory	2
Auto. Tech. 150b	Charging Systems	2
Auto. Tech. 150c	Starting & Ignition Systems	2
	TOTAL REQUIRED	UNITS 24



BIOLOGY

REQUIRED COURS	SES: UNITS
AT LEAST 12 UNI	
Biology 111	Principles of Biology
Biology 121	Principles of Plant Biology 4
Biology 131	Principles of Animal Biology 5
Biology 140	Introductory Human Anatomy 4
Biology 160	Introduction to Human Physiology
Biology 165	Microbiology 4
	TOTAL 12
AND AT LEAST 8	UNITS FROM:
Any Biology course	100 or above not counted
in the above list	
Chemistry 100 or hig	gher4-
Earth Science 139	Field Geology 1-3
Health Ed. 120	Nutrition
Natural Res. 100	Environmental Conservation
Physics 100 or highe	г
**************************************	TOTAL REQUIRED UNITS 2

BUSINESS CLERICAL

REQUIRED COUR	SES: UNITS
Bus, Ad, 60a	Bookkeeping and
Bus. Ad. 60b	Bookkeeping 3
	or
Bus. Ad. 61	Small Business Acctng 4
	or
Bus. Ad. 130a	Accounting and4
Bus. Ad. 130b	Accounting 4
Office Oc. 65	Business English
Office Oc. 103	Intermediate Typing 3
Office Oc. 106	Beginning Word Processing 2
Office Oc. 108	Word Process: Electronic Typewriter 1
Office Oc. 130	Filing Systems & Records Mgmt 2
Office Oc. 132	Machine Transcription 2
	TOTAL 17-21
AND 1-5 UNITS F	
Bus. Ad. 63	Business Mathematics 3
Computer Sci. 101	Intro. to Computer Concepts 2
Office Oc. 68	Business Communications 3
Office Oc. 136	Electronic Printing Calculators 1

BUSINESS

TOTAL REQUIRED UNITS 22

	SECRETARIAL
REQUIRED COU	RSES: UNITS
Office Oc. 68	Business Communications 3
Office Oc. 103	Intermediate Typing 3
Office Oc. 106	Beginning Word Processing
Office Oc. 112	Intermediate Shorthand 4
Office Oc. 130	Filing Systems & Records Mgmt 2
Office Oc. 132	Machine Transcription 2
	TOTAL 14
AND AT LEAST	4 UNITS FROM:
Office Oc. 65	Business English
Office Oc. 65 Bus. Ad. 60a Bus. Ad. 60b	Bookkeeping and 3
Bus. Ad. 60a	Bookkeeping and
Bus. Ad. 60a	Bookkeeping and
Bus. Ad. 60a Bus. Ad. 60b	Bookkeeping and
Bus. Ad. 60a Bus. Ad. 60b	Bookkeeping and 3 Bookkeeping
Bus. Ad. 60a Bus. Ad. 60b Bus. Ad. 61	Bookkeeping and
Bus. Ad. 60a Bus. Ad. 60b Bus. Ad. 61 Bus. Ad. 130a	Bookkeeping and 3 Bookkeeping

BUSINESS

BUSINESS ADMINISTRATION (PROFESSIONAL)

REQUIRED COUR	SES: UNITS
Bus. Ad. 115a	Commercial Law 3
Bus. Ad. 115b	Commercial Law 3
Bus. Ad. 130a	Accounting
Bus. Ad. 130b	Accounting
Computer Sci. 103	Computer Operating Systems 1
Economics 101a	Principles of Economics 4
Economics 101b	Principles of Economics 4
	TOTAL REQUIRED UNITS 16

BUSINESS

BUSINESS ADMINISTRATION (OCCUPATIONAL)

REQUIRED COURSES:

KEQUILLE COU.	
Bus. Ad. 63	Business Mathematics
Bus. Ad. 101	Principles of Business 3
Bus. Ad. 60a	Bookkeeping and 3
Bus. Ad. 60b	Bookkeeping
	or
Bus. Ad. 61	Small Business Accounting 4
Computer Sci. 103	Computer Operating Systems
Office Oc. 68	Business Correspondence
	TOTAL 14-16
AND 6 UNITS FR	OM:
Bus. Ad. 104	Human Relations in Business 3
Bus. Ad. 115a	Commercial Law 3
Bus. Ad. 115b	Commercial Law
Bus. Ad. 120	Principles of Marketing 3
Bus. Ad. 123	Sales 3
Bus. Ad. 125	Advertising 3
Bus. Ad. 140	Principles of Management
Bus. Ad. 150	Small Business Management
	TOTAL REQUIRED UNITS 20-22

CHILD DEVELOPMENT

REQUIRED COUR	SES:	UNIT
Child Dev. 101	Principles of Child Dev	
Child Dev. 103	Practices in Child Dev	
Child Dev. 105	Child Nutrition	
Child Dev. 107	Child Health & Safety	
Child Dev. 110	Creative Activities I	
Child Dev. 111	Creative Activities II	1.
Child Dev. 115	Observation & Participation	
Child Dev. 122	Child, Family, Community	
Child Dev. 125	Infant/Toddler Care	
Child Dev. 127	School Age Children	
Child Dev. 130	Child Care/Nursery School Administration	on
	TOTAL REQUIRED LINIT	S 22-2





COMPUTER SCIENCE

REQUIRED COUR	RSES: UNITS
Computer Sc. 101	Intro. to Computer Concepts
Computer Sc. 103	Computer operating systems
Computer Sc. 125	Pascal Programming I
Computer Sc. 126	Pascal Programming II
Computer Sc. 120	BASIC Programming 3
Computer Sc. 127	or FORTRAN Programming
•	or
Computer Sc. 129	COBOL Programming 3
	or
Computer Sc. 132	RPG II Programming
Computer Sc. 140	Assembly Language Programming 3
Computer Sc. 155	Data Base Management3
English 101a	Reading and Composition 3
Mathematics 104	Logic
	or
Philosophy 104	Logic
Mathematics 110	Finite Mathematics 4
	TOTAL REQUIRED UNITS 28

ENGLISH

REQUIRED COU	RSES: UNITS
English 101a	Reading and Composition: Beginning 3
English 101b	Reading and Composition: Advanced 3
	TOTAL 6
AND AT LEAST	15 UNITS FROM:
English 110	Creative Writing 3
English 117a	Literature of the U.S 3
English 117b	Literature of the U.S 3
English 146a	Survey of English Literature
English 146b	Survey of English Literature
English 149	California Literature
English 150	Introduction to Shakespeare 3
	TOTAL REQUIRED UNITS 21

	FIRE TECHNOLOGY	
REQUIRED COU	RSES: U	NITS
Fire Tech. 101	Intro. to Fire Technology	3
Fire Tech. 104	Fund. of Fire Behavior & Control	0000
Fire Tech. 106a	Fire Prevention 1A	3
Fire Tech. 106b	Fire Prevention 1B	3
Fire Tech. 108	Firefighting, Strategy, Tactics	2
Fire Tech. 114	Fire Apparatus & Equipment	2
Fire Tech. 117	Wildland Fire Control	3
Fire Tech. 123	Fire Hydraulics	3
	TOTAL DECLUDED LINE	TC 22

TOTAL REQUIRED UNITS 22

REQUIRED COUR	SES: UNITS
For. Tech. 50	Intro. to Technical Forestry
or. room or	or
Forestry 101	Intro. To Professional Forestry 3
For. Tech. 53	Forest Surveying Techniques 3
For Tech. 56	Tree & Plant Identification
Forestry 110	Dendrology3
Nat. Res. Tech. 60	Aerial Photography and Map Interpretation 2
S.A.R. 122	Wilderness Navigation 2
5.1.1.1.	TOTAL 10-11
Fire Tech. 117 Forestry Tech 62. Nat. Res. Tech. 50 Nat. Res. Tech. 52 Nat. Res. Tech. 81 Natural Res. 100 Natural Res. 109	Wildland Fire Control

REQUIRED COUL	RSES. UNITS
History 104a	World Civilization: to 1650
	World Civilization: 1650 to Present
History 104b History 117a	United States: to 1865 3
History 117a	United States: 1865 to Present
History 1170	TOTAL 12
AND AT LEAST	6 UNITS FROM:
Any other History	
Any Political Scien	
Anthro. 101	Intro. Anthro: Physical
	or
Anthro. 102	Intro. to Anthro: Cultural 3
Economics 101a	Prin. of Econ.: Macro-Economics 4
	or
Economics 101b	Prin. of Econ.: Micro-Economics 4
Geography 102	Cultural Geography
Sociology 101	Introduction to Sociology
	or
Sociology 102	American Social Patterns 3
	TOTAL REQUIRED UNITS 18

HOSPITALITY MANAGEMENT CULINARY ARTS

REQUIRED COUR	SES: UNITS
Hosp. Mgmt. 103	Marketing of Hospitality Services 3
Hosp. Mgmt. 131	Dining Room Service 3
Hosp, Mgmt, 136	Commercial Baking: Adv 2
Hosp Memt. 140a	Classical Cuisine: Beg
Hosp, Mgmt, 140b	Classical Cuisine: Inter 3
Hosp, Mgmt, 142	Garde Manager
Hosp. Mgmt. 147b	Beverage Management 3
	TOTAL REQUIRED UNITS 19

HOSPITALITY MANAGEMENT FOOD SERVICE TECHNOLOGY

REQUIRED COUR	SES: UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry 3
Hosp. Mgmt. 103	Marketing of Hospitality Services 3
Hosp. Mgmt. 130	Food Service Management 2
Hosp. Mgmt. 131	Dining Room Service
Hosp. Mgmt. 133a	Intro. to Commercial Food Preparation 3.5
Hosp. Mgmt. 133b	
Hosp. Mgmt. 139	Food Science and Nutrition
Hosp. Wight, 137	Classical Cuisine: Beginning
Hosp. Mant. 140h	Classical Cuisine: Advanced
Hosp. Mgiitt. 1400	TOTAL REQUIRED UNITS 2
	TOTAL REQUIRED CHITS 2

HOSPITALITY MANAGEMENT HOTEL MANAGEMENT

	110122
REQUIRED COUR	SES: UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry
Hosp. Mgmt. 103	Marketing of Hospitality Services
Hosp. Mgmt. 112	Front Office/Hotel Catering 3
Hosp. Mgmt. 114	Intro. to Maintenance and Housekeeping 1.5
Hosp. Mgmt. 116	Laws of Innkeeping
Hosp. Mgmt. 130	Food Service Management
Hosp. Mgmt. 160	Intro. to Travel-Tourism Industry/Tours2
Bus. Ad. 179	Work Experience4
	TOTAL REQUIRED UNITS 19.5
DECOMMENDED	OPTIONAL COURSES:
KECOMMENDED	Of HOME COCKEES.

Bus. Ad. 60a

Bus. Ad. 60b

Bus. Ad. 63

Bus. Ad. 130a

Bus. Ad. 130b

Off. Oc. 136

Bookkeeping..... 3

Bookeeping...... 3

Accounting 4

Accounting 4

Electronic Printing Calculators 1

HUMANITIES

	HUMANTILES	
REQUIRED COUR	RSES:	UNITS
Humanities 101	Old World Culture	3
Humanities 102	Modern Culture	
AND ONE COUR	SE IN ART HISTORY FROM:	
Art 111a	History of Art: Ancient and Med	ieval3
Art 111b	History of Art: Ren., Baroque, N	Modern 3
AND ONE COUR	SE IN MUSIC FROM:	
Music 102	Introduction to Music	3
Music 110a	Survey of Music History and Literature 3	
Music 110b	Survey of Music History and Lite	erature 3
AND ONE COUR	SE IN LITERATURE FROM:	
English 117a	Literature of the United States.	3
English 117b	Literature of the United States.	
English 146a	Survey of English Literature	
English 146b	Survey of English Literature	
AND ONE COUR	SE IN HISTORY OR PHILOSO	PHY FROM:
History 104a	World Civilizations: to 1650	
History 104b	World Civilizations: 1650 to Pre	sent 3
History 111	Asian Civilizations	3
Philosophy 101	Introduction to Philosophy	
Philosophy 115	World Religions	
Philosophy 125	Twentieth Century Philosophy.	
	TOTAL REQU	IRED UNITS 18

LIBERAL STUDIES

A minimum of six (6) semester units must be completed in each of the three areas. A minimum of eighteen (18) semester units total must be completed from the three areas combined. (Courses used to fulfill the Liberal Studies Major Requirements may not be used to fulfill the General Education requirements for the AA or AS Degree.)

Degree.)	
HUMANITIES (M	inimum of 6 Units):
Art 111a	History of Art: Ancient and Medieval
Art 111b	History of Art: Ren., Baroque, Modern
Drama 102	Oral Expression and Interpretation
English 117a	Literature of the United States
English 117b	Literature of the United States
English 146a	Survey of English Literature
English 146b	Survey of English Literature
Humanities 101	Old World Culture
Humanities 102	Modern Culture
Music 110a	Survey of Music History and Literature
Music 110b	Survey of Music History and Literature
Philosophy 101	Introduction to Philosophy
Philosophy 115	World Religions
NATURAL SCIEN	CES AND MATHEMATICS
(Minimum of 6 Uni	
Biology 108	Fundamentals of Biology
Biology 111	Principles of Biology
Chemistry 100	Fundamentals of Chemistry
Chemistry 101a	General Chemistry
Comp. Sci. 101	Introduction to Computer Concepts
Comm Soi 102	
Comp. Sci. 103	Computer Operating Systems
Comp. Sci. 120	BASIC Programming 3
Earth Sci. 114	Physical Geology
Earth Sci. 142	Descriptive Astronomy
Earth Sci. 161	Fundamentals of Meteorology
Earth Sci. 171	Fundamentals of Oceanography
Math 101	Intermediate Algebra (or higher)
Math 104	Introduction to Logic
Natural Res. 100	Environmental Conservation
Philosophy 104	Introduction to Logic 3
Physics 100	Conceptual Physics
Physics 120a	General Physics
	S (Minimum of 6 Units):
Anthro. 101	Intro. to Anthropology: Physical 3
Anthro. 102	Intro. to Anthropology: Cultural
Anthro. 115	Indians of North America 3
Bus. Ad. 101	Principles of Business 3
Economics 101a	Principles of Economics
Economics 101b	Principles of Economics
Geography 102	Intro. to Cultural Geography
History 104a	World Civilization: to 1650 3
History 104b	World Civilization: 1650 to Present
History 117a	United States History 3
History 117b	United States History 3
Pol. Sci. 101	Constitutional Government 3
Pol. Sci. 125	Comparative Political Systems
Psychology 101	General Psychology 3
Psychology 103	Social Psychology 3
Sociology 101	Introduction to Sociology
Sociology 102	American Social Patterns 3
Sociology 112	Family, Marriage, Individual

MATHEMATICS

REQUIRED COL	JRSES:	UNITS
Math. 103	College Algebra	4
	OI'	
Math. 105	Elements of Statistics	4
Math. 120a	Calculus w/Analytic Geometry	
Math. 120b	Calculus w/Analytic Geometry	
	•	TOTAL 12
AND 10 UNITS	EDOM:	TOTAL 12
Comp. Sci. 120	BASIC Programming	
Comp. Sci. 120	Data File Programming with BA	ASIC 3
Math 103	College Algebra	
Math 105	Elements of Statistics	
Math 110	Finite Mathematics	
Physics 120a	General Physics	
Physics 120b	General Physics	
		IRED UNITS 22
	TOTAL REQU	IKED UNITS 22
	MUSIC	
REQUIRED COU	JRSES:	UNITS
Music 120a	Music Theory	5
Music 120b	Music Theory	
Music 150	Applied Music (Major Instrume	ent) I
		TOTAL II
MINIMUM OF 3	UNITS FROM:	
Music 131a	Elementary Class Piano	1.5
Music 131b	Elementary Class Piano	
Music 141a	Intermediate Class Piano	
Music 141b	Intermediate Class Piano	1.5
Piano majors ma	y substitute additional units from	
courses in Mus	ic 150 - 179 series.	
		TOTAL 14
AND A MINIMU	JM OF 4 UNITS FROM:	
Music 160	Choir	1
Music 164	Jazz Choir	
Music 165	Theatre Production: Music Emp	ohasis I
Music 166	Community Chorus	
Music 169	Madrigal Ensemble	
Music 170	Wind Ensemble	
Music 172	Jazz Ensemble	
Music 176	Orchestra	
Music 179	Ensemble: Instrumental Empha	sisl
	TOTAL REQU	IRED UNITS 19
RECOMMENDE	D 3 UNITS FROM:	
Music 102	Introduction to Music	
Music 110a	Survey of Music History and Lit	terature 3
Music 110b	Survey of Music History and Lit	terature 3
		THE WAY



NATURAL RESOURCES TECHNOLOGY

PSYCHOLOGY

REQUIRED COUR	SES: UNITS
Psychology 101	General Psychology
Psychology 102	Current Issues in Psychology 3
Psychology 145a	Developmental Psychology 3
Psychology 145b	Developmental Psychology 3
Psychology 160	Personality Theory 3
	TOTAL 15
AND AT LEAST 6	UNITS FROM:
Psychology 125	Biofeedback and Self-Control 3
Psychology 130	Personal/Social Adjustment 3
Sociology 101	Introduction to Sociology
Philosophy 101	Introduction to Philosophy 3
Anthro. 102	Intro. to Anthro: Cultural
	TOTAL REQUIRED UNITS 21

SCIENCE MAJOR **EMPHASIS IN CHEMISTRY**

REQUIRED COUL	RSES: UNITS
Chemistry 101a	General Chemistry
Chemistry 101b	General Chemistry 5
Biology 108	Fundamentals of Biology 3
	or
Biology 111	Principles of Biology
Earth Science 114	Physical Geology 4
	or
Earth Science 142	Descriptive Astronomy 3
	and
Earth Science 143	Astronomy Laboratory
Physics 100	Conceptual Physics 3
	or
Physics 120a	General Physics 5
	TOTAL REQUIRED UNITS 20
Students planning	to become Chemistry majors upon transfer to a

SCIENCE MAJOR EMPHASIS IN EARTH SCIENCE

four-year school should also take Mathematics 120ab and Physics

120ab while at Columbia College.

REQUIRED COUR	RSES: UNITS
At least 10 units from	om:
Earth Science 114	Physical Geology 4
Earth Science 139	Field Geology 1-3
Earth Science 142	Descriptive Astronomy
Earth Science 143	Astronomy Laboratory
Earth Science 161	Fund. of Meteorology
Plus:	
Biology 108	Fund. of Biology
	or
Biology 111	Principles of Biology 4
Chemistry 100	Fund. of Chemistry4
	OF 5
Chemistry 101a	General Chemistry
Physics 100	Conceptual Physics
	10
Physics 120a	General Physics5
	TOTAL REQUIRED UNITS 20
Students planning t four-year school s	o become Earth Science majors upon transfer to a hould also take Chemistry 101ab, Mathematics

120ab, and Physics 120ab while at Columbia College.

SCIENCE MAJOR

EMPHASIS IN	ENVIRONMENTAL	SCIENCE
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REQUIRED COU	RSES:
Natural Res. 100	Environmental Cons. UNITS
Earth Sciences 114	1 Hysical Geology
Physics 100	Conceptual Physics
Biology 111	Principles of Biology
	or 4
Biology 121	Principles of Plant Biology 4
	OI .
Biology 131	Principles of Animal Biology 5
Chemistry 100	Fundamentals of Chemistry
	or
Chemistry 101a	General Chemistry
Earth Science 139	Field Geology
	or
Earth Science 161	Fund. of Meteorology 3
	Or
Forestry 110	Dendrology 3
	TOTAL REQUIRED UNITS 20

SCIENCE MAJOR EMPHASIS IN PHYSICS

REQUIRED COL	JRSES:
Physics 120a	General Physics
Physics 120b	General Physics
Biology 108	Fundamentals of Biology
	Fundamentals of Biology 3
Biology 111	Principles of Biology
Chemistry 100	Fund. of Chemistry
	ог
Chemistry 101a	General Chemistry
Earth Science 114	Physical Geology
	Physical Geology
Earth Science 142	Descriptive Astronomy 3
Earth Science 143	Astronomy Laboratory
	TOTAL REQUIRED LINITS 21
Students planning t	1

Students planning to become Physics majors upon transfer to a fouryear school should also take Chemistry 101ab while at Columbia Col-

SOCIOLOGY

REQUIRED COUL	RSES:
oociology 101	Introduction to Social
Sociology 102	Introduction to Sociology
Sociology 110	American Social Patterns
Sociology 112	Deviance and Conflict
Sociology 128	ammy, iviai riage, individual
ociology 128	Death and Dying 3
AND	TOTAL PROLUBED UNITED AND
AND AT LEAST 3	UNITS FROM:
Anthropology 102 Philosophy 101	Intro. to Anthropology
Psychology 130	
Social Science 140	
	Human Sexual Behavior

TOTAL REQUIRED UNITS 18

-NOTES-

LOWER DIVISION REQUIREMENTS CALIFORNIA FOUR-YEAR COLLEGES AND UNIVERSITIES

Students should consult the latest catalog of the college to which they intend to transfer to ensure that all possible required lower division general education courses and prerequisites for the major are included in their Columbia College program of study.

Columbia College counselors will assist students in the selection of courses that fulfill both major and General Education Breadth Requirements.

The responsibility for fulfilling requirements rests with the student.

CALIFORNIA STATE UNIVERSITY SYSTEM (C.S.U.) TRANSFER INFORMATION

The California State University system (C.S.U.) has established the following campuses:

California State College, Bakersfield

California State University, Chico California State University, Dominguez Hills

California State University, Dominguez Hill California State University, Fresno

California State University, Fullerton

California State University, Hayward

Line beld State University, Hayward

Humboldt State University

California State University, Long Beach

California State University, Los Angeles

California State University, Northridge

California State Polytechnic University, Pomona

California State University, Sacramento

California State University, Stanislaus

California State University, San Bernardino

San Diego State University

San Francisco State University

San Jose State University

California Polytechnic State University, San Luis Obispo

Sonoma State University

C.S.U. ADMISSION AS AN UNDERGRADUATE TRANSFER

Transfer Requirements — You will qualify for admission as a transfer student if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet one of the following standards:

- 1. were eligible as a freshman (see your counselor for "Freshman Requirements") at the time of application for admission or at the time of graduation from high school, provided you have been in continuous attendance at a college since graduation or,
- 2. were eligible as a freshman except for the college preparatory subject requirements and have completed appropriate college courses in the missing subjects, or
- 3. have completed at least 56 transferable semester (84 quarter) units and have completed appropriate college courses to make up any missing college preparatory subjects (see your counselor for "Subject Requirements"). (Nonresidents must have a 2.4 grade point average or better.)

For this requirement, transferable courses are those designated for that purpose by the college or university offering the courses.

A maximum of 70 transferable semester units of community college credit will be accepted by a state university. Units in excess of 70 may be applied toward fulfillment of General Education Breadth Requirements, the major, or the minor if deemed appropriate by the university.

Making up Missing College Preparatory Subject Requirements—Undergraduate transfer applicants who did not complete the subject requirements while in secondary school may make up missing subjects in any of the following ways:

- 1. complete appropriate courses with a C or better in adult school or high school summer sessions;
- 2. complete appropriate courses in college with a C or better (one course of three semester/four quarter units will be considered equivalent to one year of high school study); or
- earn acceptable scores on specified examinations.
 Consult your Columbia College counselor for requirements related to make-up of deficiencies with Columbia College course work.

Transfer applicants with 56 or more semester units can satisfy the preparatory subject requirements by completing, with a C or better, one of the following alternatives:

- (a) 1987 or earlier high school graduates; the CSU general education requirement in communication in the English language and mathematics;
- (b) 1988 and later high school graduates: 30 semester (45 quarter) units applicable to CSU general education requirements; appropriate flexibility will be provided for applicants to certain "high-unit" majors identified in the CSU Review. That flexibility will be reported in the Review as soon as it is determined.

All transfer applicants with 56 or more transferable semester (84 quarter) units will be expected to have completed the general education requirements in communication in English (at least 9 semester units) and in mathematics (usually 3 semester units).

Subject Requirements—Beginning Fall, 1988, the California State University requires that first-time freshman applicants complete, with grades of C or better, 15 units in a comprehensive pattern of college preparatory courses. A "unit" is one year of study in high school. One year of study in high school is equal to one semester of study in college.

English, 4 years (also required previous to 1988).

Mathematics, 3 years (2 years required previous to 1988): algebra, geometry, and intermediate algebra.

U.S. History or U.S. History and government, 1 year. Science, 1 year with laboratory: biology, chemistry, physics, or other acceptable laboratory science.

Foreign language, 2 years in the same language (subject to waiver for applicants demonstrating equivalent competence).

Visual and performing arts, 1 year: art, dance, drama/theater, or music.

Electives, 3 years: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, and agriculture.

Subject Requirement Substitution for Students with Disabilities—Disabled student applicants are strongly encouraged to complete college preparatory course requirements if at all possible. If an applicant is judged unable to fulfill a specific course requirement because of his or her disability, alternative college preparatory courses may be substituted for specific subject requirements. Students who are deaf and hearing impaired, have learning disabilities, or are blind and visually impaired, may in certain circumstances qualify for substitutions for the foreign language, mathematics, and laboratory science subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by the applicant's academic advisor or guidance counselor in consultation with the director of a CSU disabled student services pro-

Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held for 15 units of college preparatory study. Students should be aware that course substitutions may limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the director of disabled student services at your nearest CSU campus.

Phase-into the Subject Requirements—CSU will phase in the 1988 subject requirements and during the phase-in period will admit, on condition freshman applicants who meet all other admission requirements but are missing a limited number of the required subjects. Applicants will be admitted on condition that they make up any missing subjects early in their CSU studies, as determined by the campus.

Beginning Fall 1988, and through the Summer Semester 1989, freshman applicants must complete at least 10 of the required high school subject units to be eligible for admission on condition. Further, applicants will be expected to include at least 6 of the 7 units required in English and mathematics combined.

The remainder of the 15-unit requirement will be phased in by Fall 1992. Please consult CSU admissions offices for the phase-in schedule for Fall 1989 and later.

Please consult with any CSU admissions office for further information about alternative ways to satisfy the subject requirements.

Test Scores—Freshman and transfer applicants who have fewer than 56 semester or 84 quarter units of transferable college credit must submit scores, unless exempt from either the Scholastic Aptitude Test (SAT) of the College Board or the American College Testing Program (ACT). San Luis Obispo requires test scores from all applicants. If you are applying to an impacted pro-

gram and are required to submit test scores, you should take the test no later than December if applying for fall admission. Registration forms and dates for the SAT or ACT are available from school or college counselors or from a campus testing office. Or you may write to:

The College Board (SAT), Registration Unit, Box 592, Princeton, New Jersey 08541

American College Testing Program (ACT), Registration Unit, Box 168, Iowa City, Iowa 52240

Transcripts—Transfer Students: Submit official transcripts from all colleges or universities previously attended. If transferring with fewer than 56 transferable semester (84 quarter) units of study, you must also submit your high school transcript. (CSU may request applicants with 56 or more transferable semester units to submit high school transcripts.) You will also find it useful to keep personal copies of your records for academic advising sessions.

Placement Tests Required of Most New Students—The CSU requires new students to be tested in English and mathematics as soon as possible after they are admitted. These are not admission tests, but a way to determine if you are prepared for college work and, if not, to counsel you how to strengthen your preparation prior to beginning university studies. You might be exempted from one or both of the tests if you have scored well on other specified tests or completed appropriate courses.

English Placement Test (EPT)—Required of all new undergraduate students.

Entry Level Mathematics (ELM) Test—Required of all new undergraduate students.

Health Screening—All new and readmitted students, born after January 1, 1957, will be notified of the requirement to present proof of measles and rubella immunizations. This is not an admissions requirement, but shall be required of students by the beginning of their second term of enrollment in CSU. Proof of measles and rubella immunizations shall also be required for certain groups of enrolled students who have increased exposure to these diseases.

Selection of Major—The majors offered at each campus are listed in the back of the application. You should review program descriptions in campus catalogs before you file your application; options within programs at one campus may be similar to differently named programs at the campuses. If you are uncertain about your major, you should be aware that all campuses do not accept students who are undecided.

Choice of Campus—Submit your application to the CSU campus of your choice. You may list an alternative campus to which your application will be forwarded in the event your first choice campus cannot accommodate you. When designating an alternative campus, be sure that your major or alternative major is offered at that campus.

CSU accepts most applications at the first choice major. And will, at most campuses, consider you in your alter-

native major before sending your application to another campus. If your first choice campus cannot accommodate you, you will be considered at your alternative choice campus, provided you have not applied to a system-wide impacted program. If time allows, you may change your campus choice after filing your application by writing the campus you wish to attend. It is generally unnecessary to file more than one application to CSU, but check with your counselor for updated information.

Impacted Programs—CSU designates programs as impacted when more applications are received in the first month of the filing period than can be accommodated. Some majors are impacted at every campus where they are offered; others may be impacted only at some campuses. Applicants to impacted majors must file the application for admission during the first month of the filing period and meet supplementary admissions criteria. If you are required to submit scores on either the SAT or ACT, you should take the test no later than December if applying for fall admission.

If you wish to be considered in impacted majors at two or more campuses, you must file an application to each. If you apply by mail, the postmark is used to determine if you filed in the first month. Nonresident applicants are rarely admitted to impacted programs.

The CSU announces each fall the majors that are impacted and the supplementary criteria required by the campuses. That announcement is published in the CSU School and College Review distributed to high school and college counselors. Information about the supplementary criteria will also be given to program applicants.

Educational Opportunity Program (EOP) Admission Requirements—Each CSU campus has an Educational Opportunity Program for undergraduate students who are disadvantaged because of their economic or educational background. EOP serves California residents who do not meet regular admission criteria, as well as those who qualify for regular admission, if they have a history of low income and need academic and financial assistance.

If you wish to be considered for admission through EOP, enter a "Y" in the appropriate item on part A of the application. In addition, you must complete and submit the forms included in the EOP Information and Supplementary Application booklet. The EOP booklet is available at each CSU campus EOP Office and the Columbia College EOPS Office.

Because the number of EOP places is limited, you should file your application forms early in the filing period. Before doing so, however, please consult with the EOP Office at the campus of your choice and the EOPS Director at Columbia College.

UNIVERSITY OF CALIFORNIA TRANSFER

The University of California has established campuses at Berkeley, Davis, Irvine, Los Angeles, Riverside, San Diego, San Francisco, Santa Barbara, and Santa Cruz.

Minimum Admission Requirements for Transfer: To qualify for admission to the University as a transfer student, you must meet one of the three sets of requirements described below:

- 1. If you were eligible for admission to the University when you graduated from high school—meaning you satisfied the Subject,* Scholarship, and Examination Requirements—you are eligible to transfer if you have a C (2.0) average in your transferable college course work.
- 2. If you met the Scholarship Requirement, but did not satisfy the Subject Requirement,* you must take college courses in the subjects you are missing to be eligible to transfer. You will need to earn a grade of C or better in each of these required courses, and an overall C (2.0) average in all transferable college course work. If you completed less than 12 quarter or semester units of transferable college course work, you must also satisfy the Examination Requirement for freshman applicants.
- 3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, or you did not meet the Scholarship Requirement and did not complete all the required "a-f" subjects, you must:
 - a. Complete 84 quarter units or 56 semester units of transferable college credit with a grade point average of at least 2.4, satisfy either (b) or (c) below.
 - b. Take college courses in the subjects you are lacking and earn a grade of C or better in each one. (The University will waive up to two units of the required high school course work except in mathematics* and English.)
 - c. Complete one college course in mathematics,* one in English, and one selected from either U.S. History, laboratory science, or foreign language. You must earn a grade of C or better in each course. The course in mathematics* must have a prerequisite of at least advanced algebra. All courses, with the exception of mathematics, must be transferable.

The University will not grant credit toward graduation for work completed in excess of 70 lower division transferable semester units.

Graduation requirements may vary between the different campuses of the University. Prospective transfer students should obtain a catalog from the campus to which they plan to transfer, and in consultation with their Columbia College counselor, determine courses needed to fulfill requirements. The Career Center maintains University catalogs for student reference.

* If you graduated from high school before June 1986, your "c" and "f" subject requirements are different from those currently required. Please contact the Admissions Officer at any campus for more information.

COURSE DESCRIPTIONS



COURSE INFORMATION

Numbering of Courses

Courses numbered 1 to 49 are non-credit courses; courses numbered 50 to 99 are not intended for transfer, but may be accepted for transfer credit by agreement with specific four-year colleges and universities.

Courses numbered 100 and above are designated baccalaureate level courses.

Students must understand that some courses designated as baccalaureate level may not meet requirements at the transferring institution; however, they may be used for elective credit.

Course Description

A course description is given for each credit course offered by the College. Students are urged to refer to the course description for information concerning course prerequisites and allocation of class hours for lecture. laboratory, field trips, or other required learning activities.

Courses Not Listed in The Catalog

1. Credit Free Courses

In an effort to meet some of the special interest needs of the populations served by the College, Credit Free courses are usually offered each semester. These courses are traditionally offered either through Continuing Education or Community Services sponsorship. Credit Free Courses cannot be applied toward fulfilling graduation, transfer, or vocational education programs, but such courses do provide information and/or training on a variety of topical subjects.

80/180 Courses: Special Topics

Lecture and/or laboratory hours and units of credit may vary. Classes in which a particular topic in a discipline (such as history) is treated with in-depth study. The topic, the number of units and hours, and prerequisites (if any), will be determined in advance and published in the Schedule of Classes. 80/180 Courses may be repeated for credit with different topics only. These courses may transfer for elective credit but will not fill requirements.

- 85/185 Courses: Interdisciplinary Studies Special Topics Lecture and/or laboratory hours and units of credit may vary. Classes in which a particular topic which crosses interdisciplinary lines is studied in-depth. The topic, the number of units and hours, and prerequisites (if any), will be determined in advance and published in the Schedule of Classes. 85/185 Courses may be repeated for credit with different topics only. These courses may transfer for elective credit but will not fill requirements.
- 99/199 Courses: Independent Study Independent study courses are intended to give students an opportunity to independently research specialized areas not available as regular course offerings of the college. They are designed to meet specific student interests and may be made available in any subject matter area. Consult your advisor for specific procedures. (See page 28 for conditions, limitations.)

Prerequisites

Prerequisites are intended to ensure that the student will have sufficient preparation before entering a course.

Where no prerequisite is stated for a course, none is required.

A prerequisite may be waived when, in the instructor's judgment, the student has adequate preparation to satisfy the course objectives.

Credit Value

The number after the course indicates the unit credit value of the course. Courses listed in this catalog are described in semester units. One semester unit equals one and one-half quarter units.

Field Trips

Field trips may be required in a number of courses where such a statement is not currently a part of the course description.

Course Repetition

Courses may be repeated for credit only if (1) the student has received a substandard grade (D, F, or NC) or (2) the course is approved as repeatable by the College Curriculum Committee and is so identified in this catalog.

Title 5 Course Review

The College is in the process of reviewing all courses in the curriculum to comply with the new academic standards established by the State (Title 5, Sections 55002 and 55805.5). The process will continue during the 1988-89 academic year; but beginning with the Fall Semester, courses will be offered only if they are in compliance with the new requirements.

ANTHROPOLOGY

101 INTRODUCTION TO **ANTHROPOLOGY: Physical**

3 Units

Lecture: 3 hours

Man and his evolutionary history with emphasis on recent developments; primatology; the fossil sequence beginning with pre-human through Paleolithic era to the domestication of plants and animals and the dawn of civilization. Race; man's cultural adaptations resulting from his biological and genetic background.

3 Units 102 INTRODUCTION TO **ANTHROPOLOGY: Cultural**

Lecture: 3 hours

Primitive man and the concept of culture basic to anthropology. Emphasis on methods of fieldwork, cultural ecology, language, social structure, the psychological perspective, religion, medicine, and cultural change.

3 Units 103 CURRENT ISSUES IN ANTHROPOLOGY

Prerequisite: Anthropology 101 or Anthropology 102 with a grade of "C" or better or consent of instructor.

Intra-specific aggression, territoriality, population control, primate social organization, intra- and inter-species communication, and the present and future trends in social organization, war, religion, and cultural change.

110 INTRODUCTION TO **ARCHAEOLOGY**

3 Units

Lecture: 3 hours Development of archaeology as an anthropological study; a review of archaeological projects in North and South America. Archaeological methods, techniques, and site survey methods.

112 ARCHAELOGICAL SURVEY 1 Unit AND SITE IDENTIFICATION

Prerequisite: Anthropology 110 with a grade of "C" or better or concurrent enrollment or consent of instructor. Laboratory: 3 hours

Field techniques in identifying, evaluating, and recording archaeological sites. Emphasis on California and Sierra prehistoric and historic period sites.

114 ARCHAELOGICAL EXCAVATION AND LABORATORY TECHNIQUES 1 Unit

Prerequisite: Anthropology 110 with a grade of "C" or better or concurrent enrollment or consent of instruc-

Laboratory: 3 hours

Archaelogical field and laboratory techniques through participation in an excavation and the processing of recovered artifacts.

115 INDIANS OF NORTH AMERICA 3 Units Lecture: 3 hours

A survey of the origins, cultures, and customs of peoples indigenous to the North American Continent with a primary emphasis upon folkways dominant prior to interference by foreign cultures; and a secondary emphasis upon the status of the Indians in the USA today.

ART

101 BASIC FREEHAND DRAWING 1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

Introduction to basic drawing techniques, rendering techniques, linear perspective, composition and various drawing media.

102 BASIC COLOR AND DESIGN 1.5-3 Units

Lecture: 1-2 hours

Laboratory: 2-4 hours

Introduction to elements and principles of visual design and color theory as applied in a studio setting.

109a LIFE DRAWING: Beginning 1.5-3 Units

Lecture: 1-2 hours

Laboratory: 2-4 hours

Problems in figure drawing working from the undraped model.

May be repeated one time.

109b LIFE DRAWING: Intermediate

1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

An extension of Art 109a emphasizing various media and compositional problems.

May be repeated one time.

111a HISTORY OF ART:

3 Units

3 Units

3 Units

Ancient and Medieval Lecture: 3 hours

Survey of art history from the Paleolithic Age through the Late Gothic Era.

Field trips may be required.

111b HISTORY OF ART: Renaissance, Baroque, and Modern

Lecture: 3 hours

Survey of art history from the 14th through the 20th century.

Field trips may be required.

118 HISTORY OF MODERN ART

Lecture: 3 hours

Survey of art history from the Impressionist era through contemporary art. Field trips may be required.

121a PAINTING: Beginning 1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

Basic principles, techniques, and materials of easel painting in a variety of media.

May be repeated one time.

121b PAINTING: Intermediate 1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

Continuation of Art 121a with emphasis on personal expression.

May be repeated one time.

123a WATERCOLOR: Beginning 1.5-3 Units

Lectue: 1-2 hours

Laboratory: 2-4 hours

Introduction to the basic techniques and problems of transparent watercolors.

May be repeated one time.

123b WATERCOLOR: Intermediate 1.5-3 Units

Lecture: 1-2 hours

Laboratory: 2-4 hours

Continuation of Art 123a introducing opaque watercolors and various experimental techniques. May be repeated one time.

125 MIXED MEDIA PAINTING

Studio: 3 hours

Introduction to special techniques involving creative mixtures of traditional media: pen and ink over watercolor wash, oil and acrylic in combination.

1 Unit

131a CERAMICS: Introductory

1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

Introduction to basic ceramic methods including hand-building and wheel-thrown forms, and introduction to glazes and decoration.

131b CERAMICS: Advanced

1.5-3 Units

Lecture: 1-2 hours Laboratory 2-4 hours

Continuation of Art 131a with emphasis on glazes, formulation and application with increased opportunity for personal expression and experimentation.

131c CERAMICS: Special Problems

1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

An extension of Art 131a and Art 131b.

May be repeated one time.

135 INTRODUCTION TO RAKU

1.5-3 Units

Prerequisite: Art 131a recommended
Lecture: 1-2 hours

Lecture: 1-2 hours Laboratory: 2-4 hours

Introduction to raku process, historic origins and contemporary uses. Practical experience in clay bodies, glazes, and raku firing.

137 INTRODUCTION TO PRINTMAKING

1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

Introduction to basic intaglio and relief printmaking procedures, including etching, engraving, collograph, linocut, and woodcut.

150a COMMERCIAL FREEHAND 1.5-3 Units LETTERING: Beginning

Lecture: 1-2 hours Laboratory: 2-4 hours

Introduction to freehand lettering and calligraphy; practice in the three major calligraphic styles of sign writing and commercial lettering; Roman, Gothic, and script technique emphasis.

150b COMMERCIAL FREEHAND 1.5-3 Units LETTERING: Intermediate

Prerequisite: Art 150a with a grade of "C" or better or consent of instructor.

Lecture: 1-2 hours Laboratory: 2-4 hours

Continuation of Art 150a with emphasis on various sign writing media such as banner writing, real estate signs, truck lettering, show cards, billboards, illustrations, wood routing signs, and concrete signs.

153a SILKSCREEN PRINTMAKING: 1.5-3 Units Beginning

Lecture: 1-2 hours Laboratory: 2-4 hours

Introduction to basic silkscreen printmaking using various stencil techniques.

153b SILKSCREEN PRINTMAKING: 1.5-3 Units Advanced

Prerequisite: Art 153a with a grade of "C" or better or consent of instructor

Lecture: 1-2 hours Laboratory: 2-4 hours

An extension of Art 153a with emphasis on experimentation and self-expression. Advanced techniques with stencils, color, inks, photographic materials and special problems.

167a TEXTILE DESIGN Introductory

1 Units

Laboratory: 3 hours

Introduction to basic textile design, techniques, and problems; loom weaving.

167b TEXTILE DESIGN: Advanced

1.5 Units

1.5-3 Units

Prerequisite: Art 167a with a grade of "C" or better or consent of instructor

Laboratory: 3 hours
Continuation of Art 167a with emphasis on multi-shaft weaving and drafting.

May be repeated two times.

171a CERAMIC SCULPTURE: Introductory

Lecture: 1-2 hours

Laboratory: 2-4 hours
Basic principles, techniques, and problems of sculpture.

171b CERAMIC SCULPTURE: Advanced

1.5-3 Units

Lecture: 1-2 hours Laboratory: 2-4 hours

Continuation of Art 171a emphasizing advanced problems and techniques in sculpture.

171c CERAMIC SCULPTURE: Special Problems

1.5-3 Units

Lecture: 1-2 hours
Laboratory: 2-4 hours

Continuation of Art 171b with emphasis on experimentation and development of personal expression.

May be repeated one time.

172 METAL SCULPTURE

1-2 Units

Laboratory: 3-6 hours

Introduction to various metal-working techniques with an emphasis on aesthetic design.

(Credit for this course will be awarded for either Art 172 or Welding 172, but not both.)

May be repeated three times.

Photography

141a PHOTOGRAPHY: Beginning

3 Units

Prerequisite: Recommended for success: Grade 12 reading and arithmetic skills

Lecture: 2 hours
Laboratory: 3 hours

Introduction to history, art, craft, and scope of color and black and white photography. Emphasis will be on the choice, types, and use of various cameras and lenses (with special emphasis on the 35mm camera), camera work and handling, composition, and black and white darkroom procedures. Adjustable 35mm camera or equivalent will be utilized.

Field trips may be required.

141b PHOTOGRAPHY: Intermediate

3 Units

Prerequisite: Art 141a with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Emphasis on refining camera work, composition, visual concepts, exposure and development of the negative, and printing skills in black and white. Adjustable 35mm camera or equivalent will be utilized.

Field trips may be required

141c PHOTOGRAPHY: Advanced

3 Units

Prerequisite: Art 141b with a grade of "C" or better, Art 102 or equivalent with a grade of "C" or better. Lecture: 2 hours

Laboratory: 3 hours

Emphasis upon refinement of darkroom skills, personal style, and visual literacy, which includes elements of design, composition, and semeiology. Both color and black and white accepted. Adjustable camera will be utilized.

Field trips may be required.

142 COLOR PHOTOGRAPHY: 3 Units A Slide Making and Positive Printing

Prerequisite: Art 141a with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Development and printing of color slides. Includes the history and theory of color photography, survey and analysis of slide films, color balance and temperature, exposure, film speed and push processing and related aspects, positive printing. Field trips may be required.

144 ADVANCED PHOTOGRAPHY 1 Unit LABORATORY

Prerequisite: Art 141b with a grade of "C" or better or Art 142b or equivalent, with a grade of "C" or better or consent of instructor

Laboratory: 3 hours

Supervised black and white darkroom work in the production of negatives and prints to improve photographic skills.

May be repeated one time.

145 FIELD PHOTOGRAPHY

1-2 Units

Lecture: .5-1 hour Laboratory: 1.5-3 hours

An introduction of producing professional quality nature photographs. Field instruction in locations of natural beauty followed by lectures, demonstrations, and critiques. Adjustable 35mm camera or larger utilized.

Field trips are required.

148 SPECIAL TOPICS IN PHOTOGRAPHY

1-4 Units

1 Unit

Prerequisite: Recommended for success: Grade 12 reading and arithmetic skills

Lecture: .5-2 hours and/or Laboratory: 1.5-6 hours

Various field and studio-oriented courses limited to particular photographic topics such as slide-tape presentations, landscape, architecture, portraiture, nude, small product and still-life, photojournalism, alternative processes, and guest lecture forum.

Field trips may be required.

May be repeated with different topics only for a maximum of three times.

AUTOMOTIVE TECHNOLOGY

See Page 32 for Certificate Requirements

55 AUTOMOTIVE SERVICE EXCELLENCE TEST PREPARATION

Lecture: 1 hour

Review for A.S.E. test series - Automobile. All eight subject areas (engine performance, engine repair, suspension and steering, brake, electrical systems, automatic transmissions, manual transmissions, drive train and axles, heating and air conditioning) may be covered depending upon the students' interest. Pretests will be given to determine students' readiness for taking the examination.

101 INTRODUCTION TO AUTOMOTIVE 1 Unit TECHNOLOGY

Lecture: 1 hour

Theory of operation of automobile systems. Fundamentals of math, micrometers, fasteners, shop safety and tools will be covered.

Offered for Credit/No Credit only

103 PREVENTIVE MAINTENANCE 1 Unit

Lecture: .5 hour Laboratory: 1.5 hours

Preventive maintenance procedures, emphasis on lubrication and safety inspection as well as record keeping.

112 PULLING AND INSTALLING ENGINES

Lecture: .5 hour Laboratory: 1.5 hours

Practical experience in pulling and installing engines.

1 Unit

114 MACHINE SHOP PROCEDURES 2 Units

Lecture: 1 hour Laboratory: 3 hours

Practical experience in head, block service, and common machine shop procedures used in repair shops.

116 ENGINE REBUILDING

4 Units

Prerequisite: Auto. Tech. 101 with trade of "CR" and Auto. Tech. 114 with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 6 hours

Techniques involved in engine rebuilding.

117a CARBURETION SYSTEMS

2 Units

Lecture: 1 hour Laboratory: 3 hours

Techniques and procedures for overhaul and service of carburetor and accessories. Fuel injection service is also covered.

117b ELECTRO MECHANICAL CARBURETORS

1 Unit

Prerequisite: Auto. Technology 117a with a grade of "C" or better or consent of instructor.

Lecture: .5 hour Laboratory: 1.5 hours

Principles and operations of carburetors used with General Motors and Ford computerized fuel systems including diagnosis, rebuilding and onand-off car adjustments.

118 EMISSION CONTROL

1 Unit

Lecture: .5 hour Laboratory: 1.5 hours

Installation, operation and repair of automotive pollution control devices. State and federal regulations are also covered.

119a BASIC GASOLINE ENGINE TUNE-UP 2 Units

Lecture: 1 hour

Laboratory: 3 hours

Operation and service of standard and electronic ignition systems. Emphasis on hand-held equipment.

119b ADVANCED GASOLINE **ENGINE TUNE-UP**

2 Units

Prerequisite: Auto Technology 119a with a grade of "C" or better or consent of instructor

Lecture: 1 hour Laboratory: 3 hours

Diagnosis and trouble-shooting of ignition systems using the oscilloscope, infared and other specialized tune-up equipment.

120 COMPUTERIZED 1 Unit **ENGINE CONTROLS (GENERAL MOTORS)**

Lecture: .5 hour Laboratory: 1.5 hours

Operation and diagnosis of domestic computerized engine contro . systems.

121 ELECTRONIC FUEL INJECTION (FORD)

Lecture: .5 hour

Laboratory: 1.5 hours Operation and diagnosis of electronic fuel injected engines. Emphasis on Ford systems.

1 Unit

1 Unit

1 Unit

123 COMPUTERIZED ENGINE 1 Unit CONTROL (FORD)

Lecture: .5 hour Laboratory: 1.5 hours

Operation and diagnosis of Ford computerized engine control systems.

125 ELECTRONIC FUEL INJECTION 1 Unit (GENERAL MOTORS)

Lecture: .5 hour Laboratory: 1.5 hours

Operation and diagnosis of General Motors fuel injected engines.

130 MANUAL TRANSMISSION REBUILDING

Lecture: .5 hour Laboratory: 1.5 hours

Principles and operation of automotive power trains including diagnosis and overhaul of clutches, manual transmission, overdrives, and transfer cases.

134 AXLES AND DRIVE LINES

Prerequisite: Auto. Tech. 130 with a grade of "C" or better or consent of instructor

Lecture: .5 hour Laboratory: 1.5 hours

Service, diagnosis, and repair of drivelines, rear axles and third members, front wheel drive hubs, and 4 x 4 front axles and hubs.

136 AUTOMATIC TRANSMISSION (G.M.) 2 Units

Lecture: 1 hour Laboratory: 3 hours

Practical experience in disassembly and assembly, failure and analysis, trouble-shooting, pressure testing, and automatic transmission rebuilding.

138 AUTOMATIC TRANSMISSION (Ford) 1 Unit

Lecture: . 5 hour Laboratory: 1.5 hours

Practical experience in disassembly and assembly, failure and analysis, trouble-shooting, pressure testing, and automatic transmission rebuilding.

140a BRAKES: Drum

2 Units

Lecture: 1 hour Laboratory: 3 hours

Principles of operation of automotive drum brakes, including diagnosis and overhaul techniques.

140b BRAKES: Disc

1 Unit

Prerequisite: Auto. Tech. 140a with a grade of "C" or better or consent of instructor

Lecture: 5 hours

Laboratory: 1.5 hours

Service procedures, including overhaul techniques of disc brakes.

144a FRONT-END AND SUSPENSION 2 Units

Lecture: 1 hour

Laboratory: 3 hours

Fundamentals and theory of automotive suspensions and steering systems. Adjustments, diagnosis, inspection and repair of alignment problems, including wheel balancing and tire problems.

144b FRONT-END AND SUSPENSION 2 Units

Prerequisite: Auto. Tech. 144a with a grade of "C; or better or consent of instructor

Lecture: I hour Laboratory: 3 hours

Front-end and suspension rebuilding and maintenance. Rear axle alignment is included.

150a VEHICLE ELECTRICITY: **Electrical Theory**

2 Units

Lecture: 1 hour Laboratory: 3 hours

Fundamentals of electricity that apply to all electrical systems.

150b VEHICLE ELECTRICITY: **Charging Sytems**

2 Units

Prerequisite: Auto. Tech. 150a with a grade of "C" or better or consent of instructor

Lecture: 1 hour

Laboratory: 3 hours

Diagnosis and repair of the battery and charging systems.

150c VEHICLE ELECTRICITY: Starting 2 Units and Ignition Systems

Prerequisite: Auto. Tech. 150a with a grade of "C" or better or consent of instructor

Lecture: 1 hour Laboratory: 3 hours

Diagnosis and repair of starting systems, magnetos and battery ignition systems.

150d VEHICLE ELECTRICITY: Lighting 2 Units and Chassis Electrics

Prerequisite: Auto. Tech. 150a with a grade of "C" or better or consent of instuctor

Laboratory: 3 hours

Diagnosis and repair of headlamp, stoplight, turn signals, as well as fuse box, trailer wiring, gauges.

162 AIR CONDITIONING

1 Unit

Lecture: 5 hour Laboratory: 1.5 hours

Understanding the principles and operation of air conditioning, as well as the techniques of recharging, diagnosis and service.

170a PRACTICAL LABORATORY

1-2 Units

.5-3 Units

Prerequisite: 8 units of Auto. Tech. courses with not more than 2 of the 8 units taken concurrently with Auto. Tech. 170a or consent of instructor,

Laboratory: 3-6 hours

Special repair projects are assigned to advanced students with emphasis on speed, accuracy, and work habits.

170b PRACTICAL LABORATORY

1-2 Units Prerequisite: Auto. Tech. 170a with a grade of "C" or better or consent of instructor

Laboratory: 3-6 hours

Continuation of Automotive Technology 170a.

170c PRACTICAL LABORATORY 1-2 Units

Prerequisite: Auto. Tech. 170b with a grade of "C" or better or consent of instructor

Laboratory: 3-6 hours

Continuation of Automotive Technology 170b.

170d PRACTICAL LABORATORY

Prerequisite: Auto. Tech. 170c with a grade of "C" or better or consent of instructor

Laboratory: 3-6 hours

Continuation of Automotive Technology 170c.

172 SPECIAL TOPICS IN **AUTOMOTIVE TECHNOLOGY**

Lecture: .5-3 hours

and/or Laboratory: 1.5-3 hours

Various topics in auto repair will be covered to meet specific mechanic's needs for inservice training. Emphasis will be placed on special skills pertaining to late model cars.

May be repeated three times. 179 WORK EXPERIENCE IN 1-4 Units **AUTO TECHNOLOGY**

Prerequisite: Employment must be approved by Work Experience instructor. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course

75 hours paid employment equals I unit of credit 60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in Auto Technology. The student's employment must be related to educational or occupational goals. Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

BIOLOGY

BIRDS OF THE MOTHER LODE 1.5 Units

Lecture: 1 hour Laboratory: 1.5 hours

A survey of the birds of the Mother Lode region of California through field observations. Stresses recognition by plumage, song, and behavior patterns. Discusses ecological relationships, nesting habits, and economic importance.

Offered for Credit/No Credit only Field trips are required. May be repeated one time.

59 WILDFLOWERS OF THE MOTHER LODE

1-1.5 Units

Lecture: 1-1.5 hours

An introduction to the Mother Lode flora. A nontechnical approach to botanical traits will be used to learn common and scientific names of local wildflowers.

Offered for Credit/No Credit only Field trips are required.

68 BIRDS OF THE SIERRA NEVADA 1 Unit

Laboratory: 3 hours

A study of bird species inhabiting Alpine Meadows and forests of the Sierra Nevada through field observations and lectures.

Offered for Credit/No Credit only Field trips required.
May be repeated one time.

70 WINTERING BIRDS OF CALIFORNIA 1 Unit

Lecture: 1 hour

Emphasizes identification of residential and migratory species which winter in California's Great Central Valley and Sierra foothills. Discussion topics include winter ecology, foraging activities, and the mysteries of migration.

Field trips are required.
May be repeated one time.

108 FUNDAMENTALS OF BIOLOGY 3 Units

Lecture: 3 hours

An introductory course for non-Science majors emphasizing the fundamental principles common to all forms of life. These include cell structure and function, reproduction, genetics, ecology, and evolution. (Biology 108 with Biology 109 fulfills the laboratory requirements for transfer and Associate Degree students.)

109 FUNDAMENTALS OF BIOLOGY 1 Unit LABORATORY

Prerequisite: Concurrent enrollment in Biology 108 Laboratory: 3 hours

An optional laboratory to be taken concurrently with Biology 108; designed to complement and amplify Biology 108 which is the lecture portion of the course.

Field trips are required.

111 PRINCIPLES OF BIOLOGY

4 Units

Prerequisite: One year of high school chemistry with a "B" average or Chemistry 100 recommended.

Lecture: 3 hours Laboratory: 3 hours

A principles course with special reference given to molecular and cellular biology. Topics include the chemical bases of life, cells, metabolism, molecular genetics, classical genetics, evaluation and ecology. Designed for Life Science and related majors.

Field trips may be required.

120 FUNDAMENTALS OF PLANT BIOLOGY

2 Units

Lecture: 1 hour Laboratory: 3 hours

A survey course in botany. Topics discussed include anatomy, physiology, ecology, horticulture, and relationships of plants to human history.

Field trips may be required.

121 PRINCIPLES OF PLANT BIOLOGY 4 Units

Prerequisite: Biology 111 with a grade of "C" or better or consent of instructor

Lecture: 3 hours
Laboratory: 3 hours

A general botany course with emphasis on plant anatomy, morphology, physiology, and systematics of fungi, and vascular plants are studied.

Field trips may be required.

125 PLANT TAXONOMY OF THE SIERRA NEVADA

2 Units

Lecture: 1 hour Laboratory: 3 hours

A study of the flora of the Sierra Nevada with emphasis on the classification of local species of fungi, mosses, ferns, conifers, and flowering plants. Standard taxonomic references are used with an emphasis on scientific nomenclature. Field trips are required.

131 PRINCIPLES OF ANIMAL BIOLOGY 5 Units

Prerequisite: Biology 111 with a grade of "C" or better or consent of instructor

Lecture: 3 hours Laboratory: 6 hours

A general zoology course for students majoring in related biological sciences. A survey of the animal kingdom including embryological, morphological, anatomical and evolutionary relationships of the group studied. Animal dissection is required. Field trips are required.

139 FIELD BIOLOGY

1-2 Units

Prerequisite: A previous course in Biology recommended Lecture: 1-2 hours.

A lecture field course in biology to be held in natural surroundings. The study site will vary with the seasons. Natural history, ecology, and biology of the locale will be studied.

May be repeated two times.

140 INTRODUCTORY HUMAN 4 Units ANATOMY

Prerequisite: One year of high school biology with a grade of "B" or better or Biology 108 or Biology 111 with a grade of "C" or better or consent of instructor

Lecture: 3 hours Laboratory: 3 hours

A survey course in human anatomy with special emphasis on skeletal, muscular, circulatory, respiratory, and nervous systems.

160 INTRODUCTION TO HUMAN PHYSIOLOGY

4 Units

Prerequisite: Biology 140 with a grade of "B" or better and one year of high school chemistry or Chemistry 100 with a grade of "C" or better or consent of instructor.

Lecture: 3 hours Laboratory: 3 hours

A survey course in human physiology with special emphasis upon digestive, reproductive, muscular, nervous and endocrine systems.

165 MICROBIOLOGY

4 Units

Prerequisite: Biology 108 or Biology 111 with a grade of "C" or better and one year of high school chemistry with a grade of "B" or better or Chemistry 100 with a grade of "C" or better or consent of instructor.

Lecture: 3 hours Laboratory: 3 hours

General characteristics of microbic life, conditions, influencing bacterial growth, bacteria in disease and aseptic procedures.

Field trips may be required.

BUSINESS

Business Administration

See Page 33 for Certificate Requirements

58 PEGBOARD PAYROLL SYSTEM 1 Unit

A business simulation designed to give realistic experience in keeping payroll records using a pegboard system.

60a BOOKKEEPING

Lecture: 1 hour

3 Units

Lecture: 2.5 hours
Laboratory: 1.5 hours

Double entry bookkeeping, general and special journals, general and subsidiary ledgers, business forms, financial statements, and completion of the bookkeeping cycle.

60b BOOKKEEPING

3 Units

Prerequisite: Business Administration 60a with a grade of "C" or better or consent of instructor

Lecture: 2.5 hours Laboratory: 1.5 hours

Bookkeeping entries requiring analysis, interpretation and recording, promissory notes, adjustments for prepaid and accrued items; depreciation; payroll records; the development and use of specialized journals.

61 SMALL BUSINESS ACCOUNTING 4 Units

Lecture: 4 hours

Accounting procedures and analysis for most small businesses. Includes study of the accounting cycle, accounts receivable and bad debts, notes receivable and payable, merchandise inventory, depreciation, accruals and deferrals, the voucher system, payroll, financial statements, costs for decision-making partnerships, and corporations.

62 COMPUTERIZED ACCOUNTING .5 Units SIMULATION

Prerequisite: A grade of "C" or better in Bus. Ad. 60b or Bus. Ad. 61 or Bus. Ad. 130a or consent of instructor Lecture: .5 hours

Introduction into automated accounting using the microcomputer. Includes journalization of daily transactions and correcting, adjusting and closing entries. Students work with standard internal and external documents such as journals, general and subsidiary ledgers, tickler files, trial balances, schedule of accounts receivable and payable, and financial statement.

63 BUSINESS MATHEMATICS

3 Units

Lecture: 3 hours

Mathematical problems of buying, selling, interest, discounts, insurance commissions, payrolls, depreciation, taxes, checking accounts, consumer applications, balance sheet and income statements, inventory and stocks and bonds.

65 THE METRIC SYSTEM

1 Unit

Lecture: 1 hour

A basic presentation of the new language of the modernized metric system in areas of common, everyday application: volume, weight, linear, and cubic measures, temperature, and electricity.

101 PRINCIPLES OF BUSINESS

3 Units

Lecture: 3 hours

Survey of business principles, problems and procedures; ownership; recruitment and training of personnel; labor-management relations; production and distribution of goods; competition; profit; transportation; finance; managerial controls; government and business relations.

104 HUMAN RELATIONS IN BUSINESS 3 Units

Lecture: 3 hours

Influence of industrial development on employer and employee unions, management practices, methods of supervision, employer-employee relationships, mass production and the employee.

115a COMMERCIAL LAW

3 Units

Lecture: 3 hours

Historical development of common law; legal and social environment of business, federal and state court decisions, legal aspects of business, law of contract, personal property, bailments and law of sales are covered in this portion of commercial law.

115b COMMERCIAL LAW

3 Units

Lecture: 3 hours

Law of sales, negotiable instruments, personal property, real property, partnerships, corporations, insurance, suretyship.

120 PRINCIPLES OF MARKETING

Lecture: 3 hours

Marketing principles, policies, and functions, price policies and controls, trade channels, merchandising, market research, advertising, and competitive practices.

123 SALES

3 Units

3 Units

Lecture: 3 hours

Description of the fundamental principles and practices of sales. Critical look at the selling process and the practical aspects of effective sales techniques for both retail and direct applications.

125 ADVERTISING

3 Units

Lecture: 3 hours

Analysis of the social and economic impact of advertising on a local, state and national scope. Study of media, budgets, research, copy, layout and institutions.

130a ACCOUNTING

4 Units

Lecture: 4 hours

Accounting principles and procedures, owner's equity, closing books, revenue and expense adjustments, merchandising operations, statement and ledger organization, forms of organization, cash and investments, receivables and inventories.

130b ACCOUNTING

4 Units

Prerequisite: Business Administration 130a with a grade of "C" or better or consent of instructor

Lecture: 4 hours

Cost data and management needs, analysis of data, supplementary statement, uses of capital cash-flow statements, department and branch operation, consolidation, profit planning, and income tax considerations, fixed assets, liabilities, manufacturing operations.

140 PRINCIPLES OF MANAGEMENT 3 Units

Lecture: 3 hours

The functions of management, techniques of decision-making and problem solving and methods used by the managers to achieve organizational goals, various theories of management, lines of authority, functions of departments, and the importance of policies, procedures and controls.

150 SMALL BUSINESS MANAGEMENT 3 Units

Lecture: 3 hours

Small business operation with proper balance between business functions of purchasing, production, sales and finance, and the management functions of planning, organizing, actuating, and controlling.

179 WORK EXPERIENCE IN **BUSINESS AND COMMERCE**

1-4 Units

Prerequisite: Employment must be approved by a Work quisite: Experience instructor. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals 1 unit of credit 60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in a variety of occupational settings within Business and Commerce (e.g., Business Administration, Hospitality, Management, Computer Science). The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

Office Occupations

See Page 36 for Certificate Requirements

52 COMPUTER KEYBOARDING/ **TYPEWRITING**

1 Unit

Lecture: 1 hour

Through the use of a computer, students will master the alphabetic and numeric keys by touch. Students may receive credit for either Office Occupations 52 or Office Occupations 101a, but not both.

53 WORD PROCESSING FOR 1 Unit PERSONAL USE

Prerequisite: Ability to type by touch Lecture: 1 hour

Instruction in typing, storing, revising, and printing documents of a personal nature including a resume, a personal business letter and a report. IBM personal computers will be utilized, but no previous computer experience is required.

TYPING SPEED AND 1 Unit **ACCURACY BUILDING**

Prerequisite: Beginning typing skill Laboratory: 3 hours (Self-paced)

Speed building and accuracy on straight copy, and statistical writing, intensive drills, timed writings and remedial work.

May be repeated 3 times.

REVIEW SHORTHAND

4 Units

Prerequisite: Typing rate of 30 words per minute Lecture: 4 hours

Review of either ABC or Gregg shorthand theory. Development of transcription skills and speedbuilding activities.

65 BUSINESS ENGLISH

3 Units

Lecture: 3 hours The mechanics of English including grammar, punctuation, sentence structure, spelling, and use

of the dictionary.

BUSINESS COMMUNICATIONS Lecture: 3 hours

3 Units

Study of communication skills in business with an emphasis on writing business documents. Techniques for writing request, refusal, collection and adjustment letters, as well as writing memorandums and business reports.

101a KEYBOARDING

1 Unit

Laboratory: 3 hours (Self-paced)

Designed for students wishing to master the touch method of keyboarding using the electric typewriter.

101b BASIC TYPING APPLICATIONS 2 Units

Prerequisite: Office Occupations 101a with a grade of "C" or better or previous typing course or consent of instructor

Lecture: 1.5 hours

Laboratory: 1.5 hours (Self-paced)

Emphasizes further development of typing speed and accuracy. Provides instruction for centering, typing business letters, tables and reports.

103 INTERMEDIATE TYPING

3 Units

Prerequisite: Office Occupations 101b with a grade of "C" or better or typing rate of 40 words per minute or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours (Self-paced)

Development of speed and accuracy, preparation of advanced correspondence, tabulation, manuscripts, outlines, business forms, and general business correspondence.

106 BEGINNING WORD PROCESSING

2 Units

Prerequisite: Ability to use typewriter keyboard by touch Lecture: 2 hours

Using a microcomputer, students will receive hands-on instruction in the operation of a word processing program. The course will include keyboarding, storing, retrieving, editing and printing information.

108 MEMORY TYPEWRITER

1 Unit

Prerequisite: Office Oc. 101b with a grade of "C" or better or consent of instructor Laboratory: 3 hours (Self-paced)

Individualized instruction on an electronic typewriter to include document and phrase storage, revisions, storage procedures, use of specialized function keys for use in a variety of

documents.

109 INTERMEDIATE WORD PROCESSING

2 Units

4 Units

2 Units

Prerequisite: Office Oc. 106 with a grade of "C" or better or consent of instructor

Lecture: 1 hour

Laboratory: 3 hours

Use of the microcomputer in advanced document preparation using a variety of word processing applications software. Advance word processing functions, file handling, disk drive commands, and current information processing terminology and technology will be presented. May be repeated two times.

110 ABC BEGINNING SHORTHAND

Prerequisite: Typing rate of 30 words per minute

Lecture: 4 hours

Presentation of ABC shorthand theory and development of dictation speeds ranging from 60-80 words a minute.

112 INTERMEDIATE SHORTHAND

Prerequisite: Dictation rate of 60 words per minute for three minutes and typing rate of 45 words per minute

Lecture: 4 hours

Continued development of either Gregg or ABC shorthand skills. Development of transcription skills using dictated speed building activities leading to employable shorthand skills.

130 FILING SYSTEMS AND RECORDS MANAGEMENT

Lecture: 2 hours

The study of alphabetic, numeric, geographic, and subject filing systems; as well as the management and control of business records and micrographics.

2 Units 132 MACHINE TRANSCRIPTION

Prerequisite: Office Occupations 103 with a grade of "C" or better or consent of instructor

Lecture: 1 hour

Laboratory: 3 hours (Self-paced)

Study and use of various transcribing machines emphasizing the development of an employable skill in machine transcribing mailable business documents.

136 ELECTRONIC PRINTING CALCULATORS

Laboratory: 3 hours (Self-paced)

Developing speed by touch on the 10-key pad. Practical instruction in the operations of an electronic calculator, emphasizing business applications.

138 OFFICE PROCEDURES

3 Units

1 Unit

Prerequisite: A grade of "C" or better in Office Oc. 103 or Office Oc. 106 or consent of instructor

Designed to acquaint the student with the duties and responsibilities of an office worker including mail services, telephone techniques, travel arrangements, financial duties, office records, office organization and procedures.

140 MEDICAL TERMINOLOGY

3 Units

Lecture 3 hours

An introduction to basic word structure including word roots, prefixes and suffixes used in medical vocabulary; also specialized vocabulary for the various anatomical systems used by allied health fields.

142a MEDICAL TRANSCRIPTION

2 Units

Prerequisite: A grade of "C" or better in Office Oc. 103 or equivalent, and Office Oc. 132 and Office Oc. 140, both with a grade of "C" or better or consent of instructor

Laboratory: 6 hours (Self-paced)

Development of skills for medical transcription in physicians' offices, clinics, hospitals and related allied health fields. Students will transcribe history and physical reports, surgical reports, using medical terminology and transcription skills.

142b MEDICAL TRANSCRIPTION

2 Units

Prerequisite: Office Oc. 142a with a grade of "C" or better or consent of instructor Laboratory: 6 hours (Self-paced)

Continuation of Office Occupations 142a. Students will type surgical reports and discharge summaries in a variety of medical specialties.

144 MEDICAL INSURANCE

2 Units

2 Units

Prerequisite: Office Oc. 103, Office Oc. 140, both with a grade of "C" or better or consent of instructor

Lecture: 2 hours

A fundamental course in medical insurance and insurance billing including instruction in coding, Blue Cross and Blue Shield forms, Medicaid and Medi-Cal, Medicare, Champus and Workers' Compensation.

154 LEGAL TRANSCRIPTION/ **TERMINOLOGY**

Prerequisite: Off. Oc. 103 and Off. Oc. 132, both with a grade of "C" or better or consent of instructor

Laboratory: 6 hours (Self-paced)

Study of legal terminology and its relationship to transcriptions of specialized legal documents and legal correspondence. Electronic typewriters and/or computers are used.

157 LEGAL OFFICE PROCEDURES 2 Units

Prerequisite: Office Oc. 103 and Office Oc. 132 and Office Oc. 154, all with a grade of "C" or better or consent of instructor

Laboratory: 6 hours

A comprehensive course of students who desire to become legal secretaries. General procedures in the law office will be introduced as well as instruction in the real ration of legal documents and introduction the law library and legal research.

179 WORK EXPERIENCE IN **OFFICE OCCUPATIONS**

1-4 Units

Prerequisite: Employment must be approved by Work Experience instructor. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals 1 unit of credit

60 hours unpaid employment equals 1 unit of credit

Provides students an opportunity to experience supervised employment in Office Occupations. The student's employment must be related to educational or occupational goals.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

REAL ESTATE

See Page 37 for Certificate Requirements

REAL ESTATE EXAM **PREPARATION**

1 Unit

Lecture: 1 hour An intense course designed as preparation for taking the state examination for a Real Estate Salesperson license.

101 PRINCIPLES OF REAL ESTATE

Lecture: 3 hours Real and personal acquisition, ownership, estates, joint tenancies, partnerships, sales, contracts, deeds, taxes, and financing real estate.

105 REAL ESTATE PRACTICE

3 Units

3 Units

Prerequisite: Real Estate 101 with a grade of "C" or better or Real Estate License or consent of instructor Lecture: 3 hours

Customer relationship; general real estate operations and the industry; includes types and valuation of listings, selling and current marketing techniques, financing, taxes, leasing, appraisals, insurance, public sales, exchanges, trade-in programs and investments.

110 LEGAL ASPECTS OF REAL ESTATE

3 Units

Prerequisite: Real Estate 101 with a grade of "C" or better or consent of instructor

California real estate law, titles, encumbrances, recording, real property acquisition and transfer; Penal Code.

115 REAL ESTATE FINANCE

3 Units

Prerequisite: Real Estate 101 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Residential and commercial financing; lending institutions, money markets and interest rates.

120 REAL ESTATE APPRAISAL

3 Units

Prerequisite: Real Estate 105 and Real Estate 110, both with a grade of "C" or better or consent of instructor

Emphasis on appraisal of residential properties, with an introduction into appraising commercial properties. Instruction in the methods and techniques for estimating market value; the appraisal report.

125 REAL ESTATE ECONOMICS

3 Units

Prerequisite: Real Estate 101 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Economic factors influencing real estate; real estate market and business cycles; commercial, industrial, and residential properties, urban development and renewal; regulation of land uses.

160 SPECIAL TOPICS IN REAL ESTATE

Prerequisite: Real Estate 101 with a grade of "C" or better or possession of a valid real estate license or consent of instructor

Lecture: .5-3 hours

A variety of topics oriented toward consumer protection, consumer service and professional competency.

CHEMISTRY

CONSUMER CHEMISTRY: Food

.5 Unit

Lecture: .5 hour

A study of the chemicals found in our food: where they come from, what they are, and what happens to them when they are consumed.

CHEMICAL CALCULATIONS

.5 Unit

Prerequisite: Mathematic 55 or equivalent with a grade of "C" or better or consent of instructor

Lecture: .5 hour

A basic math course designed to prepare the student for solving problems in Chemistry 100 and Chemistry 101ab.

Offered for Credit/No Credit only

100 FUNDAMENTAL OF CHEMISTRY 4 Units

Prerequisite: Mathematics 55 with a grade of "C" or better or one year of high school algebra or consent of instructor

Lecture: 3 hours

Fundamental theories and principles of chemistry: atomic and molecular structure, chemical reactions, stoichiometry, gases, liquids, solids, solutions, nonmetals, metals, nuclear chemistry, and organic compounds.

101a GENERAL CHEMISTRY

5 Units

Prerequisite: One year of high school chemistry with a "B" average and Math 103 or equivalent with a grade of "C" or better; or Chemistry 100 and Math 103, both with a grade of "C" or better or consent of instructor

Lecture: 4 hours

Laboratory: 3 hours

Survey of atoms, nuclear chemistry, molecules, ions, chemical bonding, gases, liquids, solids, solutions, kinetics, and equilibria.

101b GENERAL CHEMISTRY

5 Units

Prerequisite: Chem. 101a or equivalent with a grade of "C" or better or consent of instructor

Lecture: 4 hours

Laboratory: 3 hours

Survey of thermodynamics, electrochemistry, nonmetals, qualitative analysis and organic compounds.

CHILD DEVELOPMENT

See Page 33 for Certificate Requirements

101 PRINCIPLES OF CHILD DEVELOPMENT

3 Units

Lecture: 3 hours

Growth and development patterns of children from infancy through early school years. Basic concepts related to their physical, motor, intellectual, creative, social, and emotional development and the implications of these concepts for organizing and implementing early childhood education programs.

103 PRACTICES IN CHILD DEVELOPMENT

3 Units

Prerequisite: Child Development 101 recommended Lecture: 3 hours

The planning and carrying out of learning experiences and educational materials appropriate for young children, young children's behavior, and appropriate guidance techniques. Child Development 115 provides a supervised practicum for this course.

105 CHILD NUTRITION

2 Units

Lecture: 2 hours

Basic nutritional needs of children from the prenatal period through adolescence, study of the nutrients in foods, nutrition analysis, assessment of nutritional needs, program requirements/planning, and cooking activities for children in Early Childhood Education programs.

107 CHILD HEALTH AND SAFETY 1 Unit

Lecture: 1 hour

Overview of health and safety issues for children, birth to seven years of age. Study of basic health needs, medical care, outdoor and indoor safety procedures, and "child safe" programs to prevent molestation and abuse.

110 CREATIVE ACTIVITIES I

1.5 Units

Lecture: 1.5 hours

Survey of a variety of educational activities suitable for young children in art, music, movement, language, and literature; for pre-school teachers, family day care providers, parents, teacher aides, and anyone who is interested in creative expression for children.

111 CREATIVE ACTIVITIES II

1.5 Units

Lecture: 1.5 hours

Survey of educational activities suitable for young children in math and science, cooking and nutrition, woodworking, and the outdoor environment; for pre-school teachers, family day care providers, parents, teacher aides, and anyone who is interested in creative expression for children.

115 OBSERVATION AND **PARTICIPATION**

1-3 Units

1 Unit

Prerequisite: Concurrent enrollment in Child Development 103 Lecture: 3 to 9 hours

Supervised observation and participation in nursery schools and development of guidance techniques with opportunity for staff-childstudent interaction. Students may be placed in parent participation programs, child care centers. Head Start programs, or private/church sponsored centers for experience.

118 SPECIAL NEEDS CHILDREN, PART I

Lecture: 1 hour

Overview of children who have special needs, birth to seven years of age, with special emphasis on the learning handicapped, severely disabled and communicatively handicapped categories. Includes the study of the special education process, laws and parent involvement requirements.

119 SPECIAL NEEDS CHILDREN. 2 Units PART II

Lecture: 2 hours

Specific educational techniques to use with handicapped children, birth to seven years of age. Includes the study of the assessment process, I.E.P. development, mainstreaming, multidisciplinary teamwork, and active parent involvement. Observations within special education settings required.

122 CHILD, FAMILY, COMMUNITY 3 Units

Lecture: 3 hours

Study of the impact of family interrelationships and community factors on a child's development techniques fostering healthy family interactions and use of community resources will be stressed. Visitations to local programs that serve young children and their families will be required.

125 INFANT/TODDLER CARE

Lecture: 3 hours

3 Units

Principles and philosophy of infant care for children up to two years of age including growth and development, health and nutritional needs, social-emotional needs, cognitive development, language development, development of a positive self-image, parent education, community resources, and cultural and ethnic differences.

127 SCHOOL AGE CHILDREN

3 Units

Prerequisite: Child Development 101

Lecture: 3 hours

Overview of cognitive and personality development of children seven to seventeen years of age. Stages and critical periods will be studied. Current issues emphasized include: peer influence, sexual development, value clarification, self-esteem, substance abuse, sexual abuse and eating disorders. Appropriate for parents as well as child development majors, and providers of Latch-key programs.

130 CHILD CARE/NURSERY 3 Units SCHOOL ADMINISTRATION

Lecture: 3 hours

Administration of public and private child care and nursery school programs in California. Topics include budget development and management; staff selection and supervision; programs, facilities, and equipment; parent and community relationships; and licensing requirements.

179 WORK EXPERIENCE IN CHILD DEVELOPMENT

1-4 Units

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals 1 unit of credit 60 hours unpaid employment equals 1 unit of credit

Provides students an opportunity to experience supervised employment in Child Development. The student's employment must be related to educational or occupational goals.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

COMPUTER SCIENCE

See Page 33-34 for Certificate Requirements

EDUCATIONAL APPLICATIONS 1 Unit OF MICROCOMPUTERS

Lecture: .5 hour Laboratory: 1.5 hours

Provides hands-on experience using a microcomputer with an emphasis on educational applications. Will utilize a variety of software to explore the areas of computer assisted instruction, tutorials, drills, and simulation; will include software evaluation and learning theory as applied to computer-based instruction.

101 INTRODUCTION TO COMPUTER CONCEPTS

Lecture: 1.5 hours Laboratory: 1.5 hours

Concepts of computers in business and industry and their implications for society. Computer equipment, applications, and software through actual practice on the IBM Personal Computer. Applications include spreadsheets, word processing, data base management, graphics, BASIC pro-

103 COMPUTER OPERATING SYSTEMS 1 Unit

gramming, and communications.

Prerequisite: One year of high school algebra or Mathematics 55 with a grade of "C" or better or consent of instructor

Lecture: .5 hour

Laboratory: 1.5 hours

An introduction to the use of computer operating systems, including hardware and software. Emphasis is on the use of menus, utility programs, storage management, operating system design. and general machine familiarity. Topics include concepts applicable to small business or home computers which use a popular type of operating system.

107 DATE FILE APPLICATIONS WITH MICROCOMPUTERS

1 Unit

2 Units

Prerequisite: Computer Science 101 with a grade of "C" or better or Computer Science 103 with a grade of "C" or better or consent of instructor

Lecture: .5 hour Laboratory: 1.5 hours

Instruction on the use of a data management program such as DBase III Visifile, or Data Base Manager II. Hands-on experience will include defining, creating, and accessing data files on microcomputers. File management activities will include entering data file data, changing data, and developing printed reports of file information.

110 FINANCIAL WORKSHEETS ON COMPUTERS

2 Units

Prerequisite: Computer Science 101 or Comptuer Science 103 with a grade of "C" or better or consent of in-

Lecture: 1.5 hour

Laboratory: 1.5 hours

Instruction in using Lotus 1-2-3 on IBM PC computers to manage and project cash flow, maintain financial statements, and learn other ledger-type applications of a spreadsheet. Topics include data entry, formulas, customizing, data manipulation and special features which simplify business and mathematical account processes.

120 BASIC PROGRAMMING

Prerequisite: One year high school algebra or Math. 55 with a grade of "C" or better; and Computer Science 101 with a grade of "C" or better or consent of

Lecture: 2 hours Laboratory: 3 hours

BASIC language syntax is used to study programming logic, includes concepts of hierarchy, flowcharting, interactive input, analytic approaches to processing data and creating reports, valid and invalid logic structures, logical operators, comparisons, arithmetic operations, loop structures, arrays, search logic, sorting techniques, sub-routines, modular and top-down program design, and string processing.

121 DATA FILE PROGRAMMING WITH BASIC

3 Units

Prerequisite: Computer Science 120 with a grade of "C" or better plus 2 years of high school algebra or Math. 101 with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Advanced techniques of programming in BASIC language, including disc operation and file management, optimization of core usage, algorithm efficiency, and advanced I/O commands.

125 PASCAL PROGRAMMING I

3 Units

Prerequisite: Two years high school algebra or Math. 101 and Computer Science 101 both with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Structured programming using the PASCAL language. Emphasis is on program design and writing programs that conform to industry standards. Topics include input/output, calculations, looping, logical operators, arrays, algorithms, file management, and modular structured design.

126 PASCAL PROGRAMMING II

3 Units

Prerequisite: Computer Science 125 with a grade of "C" or better or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours

Continuation of Computer Science 125, PASCAL Programming I, and program design. Topics include array and string processing, data structures, records, search/sort techniques, file pointers, linked lists, and advanced language syntax. Emphasis will be on structured and modular program design.

127 FORTRAN PROGRAMMING

Prerequisite: Two years high school algebra or Math. 101 with a grade of "C" or better; and Computer Science 101 with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Recommended for mathematics and science majors and business students expecting to program using the FORTRAN language. Emphasis is on program design, debugging, and documentation. Topics include input/output, calculations, looping, logical operators, arrays, algorithms, and modular structured design.

129 COBOL PROGRAMMING

3 Units

Prerequisite: Computer Science 101 and Computer Science 103, both with a grade of "C" or better or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours

Programming in the business-oriented computer language, COBOL. Programming assignments emphasize business applications. Topics include language structure, data representation, file manipulation, report generation, input/output, and arithmetic.

132 RPG II PROGRAMMING

3 Units

3 Units

Prerequisite: Computer Science 101 and Computer Science 103, both with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

A language specifically designed for generating reports in a business-oriented environment. Topics include language structure, data representation, file manipulation, report generation, input/output, and arithmetic.

140 ASSEMBLY LANGUAGE **PROGRAMMING**

Prerequisite: Completion of at least one programming course (Computer Science 120, 125, 127, 129, or 132 with a grade of "C" or better) or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Techniques of writing assembly language instructions. Study includes computer architecture and machine logic. Plan, edit, assemble, link, and execute and debug assembly language programs for the IBM computer.

3 Units 145 COMPUTER PROGRAMMING: **APPLICATIONS**

Prerequisite: One programming language course or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

May be repeated one time.

Individualized course emphasizing program development for a business or home. Computer lab projects will emphasize strings, functions, arrays, files, procedures, or graphics. IBM PC, C64, HP150 and HP3000 computers will be utilized.

155 DATA BASE MANAGEMENT

3 Units

Prerequisite: Computer Science 101 with a grade of "C" or better or consent of instructor.

Lecture: 2 hours

Laboratory: 3 hours

Instruction in designing and using a data management system on computers. Enter data and generate periodic business reports (including mailing labels). Customize customer accounts, accounts payable, order processing, general ledger, payroll inventory, or any data resulting from business transactions. Topics include planning, data structures, query, indexing, sorting, and merging.

CONSTRUCTION

Construction Technology

101 INTRODUCTION TO RESIDENTIAL CONSTRUCTION

Lecture: 3 hours An introductory course designed to provide a basic understanding of residential construction. Topics include: the purchase of property, design, layout, foundations, framing, finish carpentry, relationships among subcontractors. Field trips are required.

111 INTRODUCTION TO RESIDENTIAL WIRING

3 Units

3 Units

Lecture: 3 hours

Electrical theory, blueprint reading, service, circuits, conduits, and flexible wiring in residential construction. Remodeling and large appliance installation procedures; applicable local code ordinances.

121 INTRODUCTION TO RESIDENTIAL PLUMBING

Lecture: 3 hours

Types of pipes and common fittings, cold and hot water supply, soil pipe and drainage systems, fixture mounting, and natural gas plumbing; applicable local code ordinances.

DRAFTING

110a BASIC DRAFTING

3 Units

3 Units

Lecture: 2 hours Laboratory: 3 hours

An introductory course for beginners or a refresher course for those with a limited drafting background. Basic instruction on the use of tools, lettering form and balance is stressed; geometric figures, orthographic projections, dimensioning.

110b BASIC DRAFTING

3 Units

Prerequisite: Drafting 110a with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Continuation of Drafting 110a; sectioning, auxiliary projections, pictorial, tolerances, and inking experiences.

115a ADVANCED DRAFTING

3 Units

Prerequisite: Drafting 110b with a grade of "C" or better or consent of instructor

Lecture: 2 hours Laboratory: 3 hours

Specialized areas of mechanical drafting, technical

illustrations, map making, sheet metal layouts, welding, cams and gears, template inking.

115b ADVANCED DRAFTING 1 Unit

Prerequisite: Drafting 115a with a grade of "C" or better or consent of instructor

Laboratory: 3 hours

Practical laboratory in area of interest such as map drafting, electrical and electronic, aerospace, and technical illustration. Projects must involve current industrial practices.

130 ARCHITECTURAL DRAFTING 3 Units

Prerequisite: Drafting 115a with a grade of "C" or better or Drafting 115b with a grade of "C" or better or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours

Study and preparation of residential designs. Creative as well as technical aspects of design will be covered. Problems relating to finance and codes will be discussed.

DRAMA

102 ORAL EXPRESSION & INTERPRETATION

3 Units

Lecture: 2 hours Activity: 3 hours

Techniques in reading literature aloud; vocal development, production, articulation, and variety; understanding and interpreting prose, poetry, and dramatic literatures; processes in the oral performance of principal literary genre.

122 INTRODUCTION TO **READERS' THEATRE**

3 Units

Lecture: 2 hours Activity: 3 hours

Theory and practice of Readers' Theatre as an art form. Directed experiences in selecting, cutting, arranging and performing the Readers' Theatre script.

136 PLAYWRITING

3 Units

Lecture: 3 hours Theory and practice of writing for the theatre; analysis of relevant literature and productions; investigation of dramatic methods appropriate to the playwright.

May be repeated one time.

143a ACTING: Fundamentals

3 Units

Lecture: 2 hours Activity: 3 hours

Investigation of techniques and theories prerequisite to theatrical performances; psychological, philosophical, and practical preparation for the actor's art.

143b ACTING: Acting-Directing

3 Units

1-3 Units

Prerequisite: Drama 143a with a grade of "C" or better or consent of instructor

Lecture: 2 hours Activity: 3 hours

A workshop in techniques of both acting and directing with specific focus upon the production of short scenes from a variety of theatrical genre.

143c ACTING: Advanced Projects

Prerequisite: Either Drama 102, Drama 143b or Drama 145 with a grade of "C" or better or audition depending upon the focus of the course during the semester it is being offered

Laboratory: 3 hours equals 1 unit of credit

Lecture: 1 hour, Laboratory: 3 hours equals 2 units of credit Lecture: 1 hour, Laboratory: 6 hours equals 3 units of credit Advanced workshop activity for production of one-act plays, segments of longer plays or full length plays whose technical requirements are minimal; intensive workshop concentration designed for public performances in the areas of improvisation or mime.

May be repeated one time.

145 IMPROVISATION

3 Units

Lecture: 2 hours Activity: 3 hours

Intensive study of the basic techniques of improvisational acting with specific concentration on improvisational theatre production formats as well as development of group inspired and created scenarios and one-act plays.

147 AUDITIONS Lecture: 2 hours

3 Units

Activity: 3 hours Theory, techniques, and practice in auditioning for performance; development of audition materials, practical audition experience for theatre, film, and television.

156 TECHNICAL THEATRE 1-3 Units LABORATORY

Laboratory: 3-9 hours

Applied laboratory experience in all phases of technical theatre related to mounting a production; practical projects in design and construction involving costumes, stage settings, stage properties, lighting, sound, and make-up for a specific theatre production.

158 THEATRE PRODUCTION

4 Units

Lecture: 1 hour Laboratory: 9 hours

Directed activities in acting and technical theatre with participation in public performances and related production activities.

May be repeated three times.

160 FALLON REPERTORY THEATRE

Prerequisite: Drama 143a, Drama 143b or Drama 158 with a grade of "C" or better and/or audition and consent of instructor

Lecture: 3 hours Laboratory: 15 hours

Rehearsal and performance of six plays in rotating repertory during a nine-month professional season at Columbia's historic Fallon Theatre; acting in at least two out of three productions per semester with related participation in all production activities as assigned.

EARTH SCIENCE

GEOLOGY OF THE MOTHER LODE

Lecture: .5-2 hours Geology of the Mother Lode from its astronomical beginnings to the present; including rocks and minerals, rivers, glaciers, mountains, earthquakes, and volcanoes.

Field trips may be required.

114 PHYSICAL GEOLOGY

4 Units

.5-2 Units

8 Units

Lecture: 3 hours Laboratory: 3 hours

The study of the earth; its materials, structures, and processes. Erosion and deposition by streams, wind, waves, and glaciers. Mountain building and volcanoes at subduction zones and rifting of the earth's plates at mid-ocean ridges. Tracing the energy from the sun and earth's interior as it drives all of the processes of change on earth; the study of life on earth, past and present. The search for valuable minerals and building materials from the earth.

Field trips may be required.

125 GEOLOGY OF THE NATIONAL PARKS

3 Units

Lecture: 3 hours

Interpretation of the geologic features of our national parks and monuments with an introduction to the geologic processes responsible for their formation. Students may choose a particular park for their in-depth study.

Field trips may be required.

133 GLOBAL TECTONIC GEOLOGY 3 Units

Lecture: 3 hours

An introduction to the new global geology and how it has revolutionized man's understanding of the way the earth works. For all who wish to learn about the earth's wandering continents and spreading sea floors; what causes rising mountain ranges, volcanoes, and earthquakes; and the role that magnetism has played in the revelation of the new geology.

139 FIELD GEOLOGY

1-3 Units

3 Units

Prerequisite: A previous course in Earth Science is desirable Lecture: .5-1.5 hours

Laboratory: 1.5-4.5 hours

A field study of selected geologic features and related Earth Science topics. A one to seven day field trip will be taken with pre and postclassroom sessions.

May be repeated two times.

Lecture: 3 hours

142 DESCRIPTIVE ASTRONOMY

A survey course in astronomy. Topics include history of astronomy, telescopes, solar system. stars, galaxies, origin of universe, and extraterrestrial life.

(See also companion course, Earth Science 143, Astronomy Laboratory.) Field trips may be required.

143 ASTRONOMY LABORATORY 1 Unit Prerequisite: Previous or concurrent enrollment in Earth Science 142 or consent of instructor

Laboratory: 3 hours

Development of observatory skills identifying major stars and constellations, setting up and using telescopes, determining rising and setting times of the sun, moon, planets, and stars. Approximately one-half of the required labs will meet at the observatory at night. Some may be predawn meetings.

161 FUNDAMENTALS OF **METEOROLOGY**

3 Units

Lecture: 2 hours Laboratory: 3 hours

Origin of the world's atmosphere, its structure, composition, and circulation; the weather elements, weather instruments and their use, gas laws, air masses, frontal movements, cloud types, and laboratory techniques; meterorological effects on modern society.

Field trips may be required.

171 FUNDAMENTALS OF OCEANOGRAPHY

3 Units

Lecture: 2 hours Laboratory: 3 hours

The origins of the world's oceans, its structure, composition, and circulation; tides, currents, salinity, density, oceanographic instruments and their use, life in the sea, the interaction of the ocean and the atmosphere, the ocean and modern society.

ECONOMICS

101a PRINCIPLES OF ECONOMICS 4 Units

Lecture: 4 hours

Macro-economics. Introduction to the U.S. economy and capitalism; national income and employment analysis, economic fluctuations, monetary fiscal policies, economic stabilityinstability, public finance, and special economic problems.

101b PRINCIPLES OF ECONOMICS Lecture: 4 hours

4 Units

Micro-economics. The corporation, analysis of costs, theory of production, pricing factor inputs including wages, rent, and interest; the social implications of various market structures; special economic problems.

EMERGENCY MEDICAL SERVICES

See Page 34 for Certificate Requirements

103 EMERGENCY MEDICAL **TECHNICIAN TRAINING**

6 Units

Prerequisite: Completion of advanced first aid course within the last two years or consent of instructor

An intensive course to assist the student in developing skill in recognition of illness and injuries and proper procedures in administering emergency care.

107 EMERGENCY MEDICAL **TECHNICIAN REFRESHER**

1.5 Units

Prerequisite: E.M.T. Certificate Lecture: 1.5 hours

Update of the existing E.M.T. certificates which are expiring.

May be repeated three times.

108a EMERGENCY MEDICAL TECHNICIAN II

9 Units

Prerequisite: E.M.T. certification, one year E.M.T. practice, CPR certification

Lecture: 8 hours

Laboratory: 4 hours

Designed to provide students with the knowledge and skills necessary to be certified as an Emergency Medical Technician II in California. Laboratory assignments will be conducted in hospitals.

108b EMERGENCY MEDICAL TECHNICIAN II

9 Units

Prerequisite: Health Occupations 108a with a grade of "C" or better or consent of instructor

Lecture: 8 hours

Laboratory: 4 hours

A continuation of Health Occupations 108a, Emphasis will be on the musculoskeletal system, obstetrics, pediatrics, multiple injury and casualty situations and psychiatric emergencies.

179 WORK EXPERIENCE IN 1-4 Units **EMERGENCY MEDICAL SERVICE**

Prerequisite: Employment must be approved by Work Experience instructor. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals I unit of credit 60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in Fire Technology. The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

ENGLISH

51 COLLEGE COMPOSITION

3 Units

Lecture: 3 hours

Training in basic composition skills, reading, interpretation, and discussion of college-levelmaterials; basic mechanics, sentence structure, paragraph development, essay report organization.

75 WRITING FUNDAMENTALS

1 Unit

Lecture: 1 hour Individual instruction in the fundamentals of writing.

May be repeated one time.

101a READING AND COMPOSITION: 3 Units Beginning

Prerequisite: Satisfactory completion of placement test and writing sample or English 51 with a grade of "C" or better

Lecture: 3 hours

Development of reading and composition skills with emphases on applying techniques of logic in interpreting and writing the expository essay and reading and interpreting the short story.

101b READING AND COMPOSITION: 3 Units Advanced

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Further development of reading and composition skills; writing longer documented essays, reading and interpreting poetry, drama, and the novel.

110 CREATIVE WRITING

3 Units

Prerequisite: English 101a with a grade of "C" or better or consent of instructor Lecture: 3 hours

Instruction and practice in writing poetry, fiction, and drama. Analysis of contemporary works with respect to literary techniques.

May be repeated one time.

111 FILM APPRECIATION

3 Units

Prerequisite: Recommended for success: Grade 12 or better reading and writing skills

Lecture: 2.5 hours Laboratory: 1.5 hours

Development of technical awareness and critical thinking in individual response to cinema into video.

117a LITERATURE OF THE UNITED STATES

3 Units

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

A study of the literature of the United States from the beginning of the English colonization through the transcendentalists. Reading, analysis, and discussion of the major literary trends and authors of the time.

117b LITERATURE OF 3 Units THE UNITED STATES

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

A study of the literature of the United States from realism to the present.

146a SURVEY OF 3 Units ENGLISH LITERATURE

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

English literature from the Anglo-Saxons through the 18th Century.

146b SURVEY OF 3 Units **ENGLISH LITERATURE**

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

English literature of the 19th and 20th Centuries.

149 CALIFORNIA LITERATURE 3 Units

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

A chronological survey of California literature in the 19th and 20th Centuries with emphasis on selected works of major American authors living and writing in California.

150 INTRODUCTION 3 Units TO SHAKESPEARE

Prerequisite: English 101a with a grade of "C" or better or consent of instructor

An introduction to the representative works by Shakespeare including the characteristics of the different genres—comedy, history, and tragedy, and a study of a number of the sonnets. In addition, students will study the literary, social, and historical backgrounds of Shakespeare's time as they affect the meaning of the works studied.

FIRE TECHNOLOGY

See Page 34 for Certificate Requirements

FIRE SERVICE ORGANIZATION 1 Unit AND RESPONSIBILITY

Lecture: 1 hour

Technical training in the makeup of fire departments, their responsibilities, rules, and interaction with other programs, organizations, and laws. Meets Firefighter I certification requirements for Unit A.

51 COMBUSTION AND **EXTINGUISHMENT THEORY**

1 Unit

1 Unit

Lecture: 1 hour Technical training in the study of the combustion

process, extinguishing agents, and their interactions. Meets Firefighter I certification requirements for Unit B.

52 PROTECTIVE EQUIPMENT 1 Unit AND SAFETY

Lecture: 1 hour

Technical and hands-on instruction in the use of protective clothing, devices and their limitations, hazards encountered at structure and vehicle fires, accident prevention and methods of traffic control at emergency scenes. Meets Firefighter I certification requirements for Unit C.

SELF-CONTAINED 1.5 Units **BREATHING APPARATUS**

Lecture: 1.5 hours

Technical and manipulative training in the operation of self-contained breathing apparatus, including testing, maintenance and the effects of stress due to its use. Safety considerations and how to avoid injury. Meets Firefighter I certification requirements for Unit D.

54 ROPES, KNOTS, AND HITCHES

Lecture: 1 hour

Technical and manipulative training in the construction, care and use of ropes. How to tie and use various fire department knots, and safety considerations. Meets Firefighter I certification requirements for Unit E.

2.5 Units 55 VOLUNTEER FIREFIGHTING TRAINING

Lecture: 2 hours Laboratory: 1.5 hours

Basic concepts, techniques, skills, and theories for volunteer firefighters.

Offered for Credit/No Credit only.

56 FORCIBLE ENTRY Lecture: 1 hour

1 Unit

Technical and manipulative training in the identification and operation of fire service tools and equipment used in forcible entry, basic consideration of building construction and safety considerations in gaining entry through roofs, doors, walls, and windows. Meets Firefighter I certification requirements for Unit F.

FIRST RESPONDER AND CPR

1.5 Units

Lecture: 1.5 hours

Lecture: 1 hour Laboratory: 1.5 hours

A basic course for the volunteer firefighter who is on a first-responder unit assigned medical responses in the rural setting. Stresses continuity of care through the approach to the patients and prioritization of their injuries/illnesses where advanced life support response is delayed.

HOSE, NOZZLES AND FITTINGS 3 Units Lecture: 3 hours

Technical and manipulative training in basic hose evolutions, hose, tool and appliance handling; hose rolls and uses, and the care and maintenance of hose. Meets Firefighter I certification requirements for Unit G.

FIRE COMMAND/ICS FOR THE 1 Unit **VOLUNTEER FIREFIGHTER**

Lecture: 1 hour

Command and control techniques used at the scene of an emergency by the volunteer fire company officer. Emphasizes decision making, the act of commanding, personnel and organization structures and pre-planning for effective command performance. Includes a review of the Incident Command System instituted by the State of California Fire Services. Offered for Credit/No Credit only.

HOSE LOADS AND USES

2 Units

Lecture: 2 hours

Technical and manipulative training in engine hose loads, hose layouts, hooking to hydrants, stand pipes, and sprinkler connections, fire hydrant terminology, advancing various sizes of hose above, below, at ground level and on ladders. Meets Firefighter I certification requirements for Unit H.

GROUND LADDERS

2.5 Units

Lecture: 2.5 hours

Technical and manipulative training in fire service ladder evolutions, ladder types, construction tests, maintenance, and operations. Methods of raising, lowering, carrying and removing ladders from apparatus. Meets Firefighter I certification requirements for Unit I.

RESCUE

Lecture: 1.5 hours

Technical and manipulative training in rescue operations in burning and smoke filled buildings. methods of victim removal and care; tool use and care. Meets Firefighter I certification requirements for Unit J.

VENTILATION

.5 Unit

1.5 Units

Lecture: .5 hours

Technical and manipulative training in ventilation procedures, equipment, safety, and opening buildings for vertical or horizontal ventilation. Meets Firefighter I certification requirements for Unit K.

CERTIFIED FIREFIGHTER I: 2 Units SUPPLEMENTAL REQUIREMENTS

Prerequisite: Certified Volunteer Firefighter or equivalent Lecture: 2 hours Laboratory: .5 hours

Designed to provide the Certified Volunteer Firefighter with the advanced and supplemental training requirements necessary to upgrade their competence and certification to Certified Firefighter I.

71 FIRE CONTROL

.5 Unit

Lecture: .5 hour

Technical instruction in methods of basic fire control including protective exposures, how fire spreads, methods of extinguishing and safety precautions on fires. Meets Firefighter I certification requirements for Unit L.

72 FIRE STREAMS

.5 Unit

Lecture: .5

Technical instruction in the basic selection of hose streams, how they react, different nozzles that are used; safety precautions in use and operations. Meets Firefighter I certification requirements for Unit M.

73 FIRE EXTINGUISHERS

.5 Unit

Lecture: .5 hour

Technical and manipulative instruction in the characteristics, operation, and selection of the proper fire extinguisher, and safety precautions in their use. Meets Firefighter I certification requirements for Unit N.

74 OVERHAUL Lecture: .5 hour

.5 Unit

Technical and manipulative training in purposes and value of overhaul procedures, how hidden fires are detected, uses of carryall to remove debris and methods to restore premises. Meets Firefighter I certification requirements for Unit O.

CERTIFIED FIREFIGHTER II

1.5 Units

Prerequisite: Possession of Certified Firefighter I certificate Lecture: 1 hour

Laboratory: 1.5 hours

Designed for agency-specific training. Includes maintenance, local codes, local fire prevention practices, local water supply features and other requirements of the assigned station.

76 PROPERTY CONSERVATION

2 Units

Lecture: 2 hours

Technical and manipulative training in basic salvage operations, including objectives, salvage cover operations and maintenance, protection of property, and removal of water. Meets Firefighter I certification requirements for Unit P.

77 FIRE PROTECTION SYSTEMS

.5 Unit

Lecture: .5 hour Technical instruction in the operating principles of common fire protection systems, various smoke and fire doctors, sprinkler components, stand pipe systems and support measures for them. Meets Firefighter I certification requirements for Unit Q.

78 SIZE UP

.5 Unit

Lecture: .5 hour

Technical training in the basic considerations of size up, priorities at emergencies and an introduction to the incident command system. Meets Firefighter I certification requirements for Unit R.

WILDLAND FIRE FIGHTING

Lecture: .5 hour

Technical and manipulative instruction in the basics of wildland fire fighting, including progressive hose lays, terminology apparatus, spread factors, and major safety considerations. Meets Firefighter I certification requirements for Unit S.

81 HAZARDOUS MATERIALS

.5 Unit

.5 Unit

Lecture: .5 hour

Technical training in the basic study of hazardous materials, including definitions, label identification, placard identification, and the purpose of the D.O.T. Emergency Response Guidebook. Meets Firefighter I certification requirements for Unit T.

82 FIRE INVESTIGATION

.5 Unit

Lecture: .5 hour

Technical instruction in the basic factors in fire cause investigation including observations, enroute, on arrival, and during a fire. Operations for investigation, recognition of and preservation of evidence, indications of arson intent, materials used, and indicators of arson. Meets Firefighter I certification requirements for Unit U.

83 COMMUNICATIONS

.5 Unit

Lecture: .5 hour

Technical training in the basics of communications including command center operations, how alarms are received and transmitted, clear text, and radio licensing and procedures. Meets Firefighter I certification requirements for Unit V.

VEHICLE EXTRICATION

.5 Unit

Lecture: .5 hour

Technical training in the basics of vehicle extrication using light rescue tools. Meets Firefighter I certification requirements for Unit W.

101 INTRODUCTION TO **FIRE TECHNOLOGY**

3 Units

Lecture: 3 hours

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, specified fire protection functions, basic fire chemistry and physics. Designed to give the learner an overview of fire technology, the fire service, and the fire protection field as career potential.

104 FUNDAMENTALS OF FIRE 3 Units **BEHAVIOR AND CONTROL**

Lecture: 3 hours

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. Designed to give the learner a comprehensive exposure to basic fundamentals of fire behavior and control in preparation for more advanced study in the field of fire protection.

106a FIRE PREVENTION 1a

3 Units

Lecture: 3 hours

History and organization of fire prevention agencies, inspection procedures and practices, special hazards, and protection systems, portable fire extinguishers, and public fire prevention education.

106b FIRE PREVENTION 1b

3 Units

Lecture: 3 hours

Recognition of fire and life safety factors, sprinkler and stand pipe systems, water supply systems, electrical hazards, fire alarm, and detection systems, public safety considerations, and special problems in fire prevention.

108 FIRE FIGHTING STRATEGY 2 Units AND TACTICS

Prerequisite: Fire Technology 101 with a grade of "C" or better or consent of instructor.

Lecture: 2 hours

Fire chemistry; equipment and manpower, fire fighting tactics and strategy, methods of attack, pre-planning fire problems.

This course meets the requirement for Fire Command IA, a state certified officer class.

110 RURAL FIRE COMPANY **OPERATIONS**

1 Unit

Lecture: .5 hour Laboratory: 1.5 hours

Emphasis on utilization of resources at maximum potential, where conditions peculiar to small and remote fire service operations exist. Includes manipulative and technical training in preplanning, and incident control in the rural setting.

114 FIRE APPARATUS AND EQUIPMENT

2 Units

Prerequisite: Fire Technology 101 with a grade of "C" or better or consent of instructor.

Lecture: 1.5 hours

Laboratory: 1.5 hours

Driving laws and techniques, construction and operation of pumping engines, tank trucks and trailers.

This class meets part of the requirements for Driver Operator, a state certified class.

115 PUBLIC FIRE EDUCATION

3 Units

Lecture: 3 hours

Concepts and processes in designing, implementing, and evaluating fire education programs. Includes specific instruction in establishing programs through the media, use of appropriate audio/visual aids and use and selection of household safety appliances and equipment.

117 WILDLAND FIRE CONTROL 3 Units

Lecture: 3 hours

Covers factors affecting wildland fire prevention, fire behavior, and fire control techniques; the statewide wildland fire problem, and protection system; pre-suppression, suppression, postsuppression activities of a protection organization; and the utilization of resources to complete the suppression organization activities using strategy and tactics and safety procedures effectively.

120 HEAVY EQUIPMENT IN FIRE CONTROL

2 Units

Lecture: 2 hours

Theory of heavy equipment used by a coordinated fire control team in fighting range fires.

123 FIRE HYDRAULICS

3 Units

Prerequisite: Mathematics 55 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Review of basic mathematics, hydraulic laws and formulas as applied to the fire service, application of formulas and mental calculation to hydraulic problems, water supply problems; underwriters' requirements for pumps.

This class meets part of the requirements for Driver Operator, a state certified class.

125 FIRE EQUIPMENT REPAIR AND MAINTENANCE

2 Units

Prerequisite: Fire Technology 61 through 67 with a grade of "C" or better or equivalent or consent of in-

Lecture: 1 hour Laboratory: 3 hours

Repair of commonly used fire service equipment including hand tools, small and auxiliary gas or electric powered tools, hyraulic mechanisms and personnel safety devices. Includes preventive maintenance, inspection procedures and measuring tolerances of calibrated equipment and devices.

127 FIRE INVESTIGATION

2 Units

Lecture: 2 hours

Determining causes and types of fires; possible evidence at the scene; interviewing witnesses and suspects; arrest, detention, and court procedures; giving court testimony.

(Students may not receive credit for both Fire Science 127 and Law Enforcement 140ab.)

129 HAZARDOUS MATERIALS INCIDENT CONTROL

2 Units

.5-3 Units

Prerequisite: Fire Technology 104 and Fire Technology 130, both with a grade of "C" or better, or equivalent Lecture: 2 hours

Hazardous materials storage, handling laws, standards and emergency practices with emphasis on firefighting and incident control at the company officer level.

This class meets the requirement for Fire Prevention 1B, a state certified class.

SPECIAL TOPICS IN FIRE TECHNOLOGY

Prerequisite: Will vary with topic

Lecture: .5-3 hours

Laboratory: 1.5-3 hours

Various topics in Fire Technology will be covered to meet individual or agency needs. Emphasis on specialized development of skills and knowledge, district planning, development and implementation of training and fire ground evolutions.

179 WORK EXPERIENCE IN FIRE SERVICE

1-4 Units

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals I unit of credit 60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in Fire Technology. The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

FOREIGN LANGUAGE

French

50 CONVERSATIONAL FRENCH

2 Units

Lecture: 1 hour Laboratory: 3 hours

Practice in vocabulary, idioms, and grammatic usage.

May be repeated three times.

Spanish

100a CONVERSATIONAL SPANISH: 3-4 Units Beginning

Lecture: 3 hours

Lecture: 3 hours

Laboratory: 3 hours

Practice in vocabulary, idioms, and grammatic usage with emphasis on conversational use of the language as spoken in Mexico.

May be repeated one time.

100b CONVERSATIONAL SPANISH: 3-4 Units Intermediate

Prerequisite: Spanish 100a with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Lecture: 3 hours
Laboratory: 3 hours

A continuation of Spanish 100a with emphasis on idioms, culture and use of the total language.

101a SPANISH: BEGINNING

4 Units

Lecture: 3 hours Laboratory: 3 hours

Audio-lingual approach to comprehension of spoken and written Spanish. Vocabulary, idioms and patterns based on the language as spoken in Hispanic America.

101b SPANISH: BEGINNING

4 Units

Prerequisite: Spanish 101a with a grade of "C" or better or two years of high school Spanish or consent of instructor

Lecture: 3 hours Laboratory: 3 hours

Continuation of Spanish 101a.

FORESTRY

101 INTRODUCTION TO 3 Units PROFESSIONAL FORESTRY

Lecture: 3 hours

Survey of the major U.S. forest regions and significant forest history events. Forestry practices, wood utilization and applied techniques of private tree farm/woodlot management for long-term production of timber, fuelwood, Christmas trees and other resources. Forestry education, career opportunities, licensing and ethics.

Field trips are required.

110 DENDROLOGY

3 Units

Lecture: 2 hours
Laboratory: 3 hours

Silvicultural and botanical characteristics, identification, classification, range, and uses of native forest species of the United States; emphasis on plants of economic importance to forest practices in California and the western United States.

Field trips will be required.

WORK EXPERIENCESee NATURAL RESOURCES 179

FORESTRY TECHNOLOGY

See Page 34 for Certificate Requirements

50 INTRODUCTION TO TECHNICAL FORESTRY

Lecture: 2 hours

Nature and scope of the forest technician's work, knowledge and skills for employment, employment opportunities. Survey of major U.S. forest regions, forest insects, diseases, and fire relationships. Technical forestry skills needed for private tree farm/woodlot management for long-term production of timber, fuelwood, Christmas trees and other resources.

Field trips will be required. 53 FOREST SURVEYING

3 Units

2 Units

TECHNIQUES
Lecture: 2 hours
Laboratory: 3 hours

Use of basic forest surveying instruments. Application of hand and staff compass, topographic and engineer's chain, abney and dumpy level, plane table and alidade, engineer's transit and redy mapper. Field recording techniques, laboratory computations and map drafting.

Field trips will be required.

56 TREE AND PLANT IDENTIFICATION

3 Units

Lecture: 2 hours Laboratory: 3 hours

Classification and identification of major United States timber species with emphasis on western and California plant cover. Description of botanical, economic and silvicultural characteristics of trees and other plants as related to forest management and utilization.

Field trips will be required.

62 APPLIED FOREST INVENTORY 4 Units AND MANAGEMENT

Prerequisite: Forestry Technology 53, Forestry Technology 56 and Natural Resources Technology 60 recommended or consent of instructor

Lecture: 2 hours Laboratory: 6 hours

Techniques of forest inventory including cruising, scaling and evaluation; field tabulation and computation methods; location and inventory of a given forest property in the field; development of property boundaries and inventory of timber and other natural resources; topographic map and road system design for property.

Field trips will be required.

WORK EXPERIENCE
See NATURAL RESOURCES 179

GEOGRAPHY

102 INTRODUCTION TO CULTURAL GEOGRAPHY

Lecture: 3 hours

The study of humankind's relationship with the environment. The techniques and resources of cultural and physical geography, anthropology, environmental science, history, political science, and sociology will be emphasized.

105 PHYSICAL GEOGRAPHY

3 Units

3 Units

Lecture: 3 hours

Lecture: 2 hours

Lecture: .5 hour

An introduction to selected aspects of the earth's physical environment (landforms, weather, climate, soils, and vegetation) and the processes and conditions giving rise to their worldwide distribution. The study of the earth as the home of man.

GUIDANCE

101 CAREER/LIFE PLANNING 2 Units

Designed to help students formulate and experience an organized and realistic approach to career planning. Development of awareness and objectivity in the areas of interest, skills, values, aptitudes, etc. Introduction to sources of occupational information and occupational trends; preparation in employment readiness including resumes, letters of application and interviewing. May include administration of standardized interest, personality, and aptitude inventories.

Offered for Credit/No Credit only.

105 JOB HUNTING STRATEGIES

.5 Units

Development of job hunting strategies. Effective use of tools necessary in the job search including: the application, resume, letter of application and interview. Primarily for the student nearing graduation or currently looking for employment. Offered for Credit/No Credit only.

107 COLLEGE SUCCESS

2 Units

Lecture: 2 hours

Designed to increase success in college by assisting students in obtaining skills necessary to reach their educational objectives. Topics include time planning, communication skills, study techniques, question-asking skills, library use, and personal issues that face many college students.

Offered for Credit/No Credit only.

110 INTRODUCTION TO HELPING SKILLS

1.5 Units

1 Unit

1 Unit

Lecture: 1.5 hours

An introduction to the skills basic to a helping relationship. Includes instruction in the concepts and principles, as well as experience in the use of specific skills. Designed for non-professional and para-professional helpers such as peer tutors, peer counselors, advisors, managers, supervisors, etc. Offered for Credit/No Credit only.

115a PRINCIPLES OF LEADERSHIP

Lecture: 1 hour

Designed to assist students in gaining basic knowledge of leadership skills, to develop skills in principles and administration of parliamentary law; the co-curricular activity program; finances, including budgetary procedure, and group dynamics.

Offered for Credit/No Credit only.

115b PRINCIPLES OF LEADERSHIP

Prerequisite: Guidance 101a

Lecture: 1 hour

Further development of leadership skills with emphasis on problem solving, group dynamics, and more effective time management techniques.

Offered for Credit/No Credit only.

HEALTH EDUCATION

50 CARDIOPULMONARY RESUSCITATION

.5 Unit

Lecture: 9 hours total
Information necessary

Information necessary to develop the student's first aid knowledge, skills, and judgment to provide basic life support until the victim recovers or until advanced life support is available.

Offered for Credit/No Credit only.

55 BASIC FIRST AID

.5 Unit

Lecture: .5 hour

Designed as a basic course for coaches and school personnel; stresses the continuity of care through prioritization of injuries and patient assessment.

60 COPING WITH STRESS Lecture: 1 hour

1 Unit

The nature of stress and the coping strategies that can lead to effective stress management and self regulation; combined with relaxation exercises, visualizing techniques, and demonstrations.

101 HEALTH AND FITNESS EDUCATION

3 Units

Lecture: 3 hours

Personal and community health: an understanding of contemporary health issues and problems with an emphasis on personal fitness and adjustment. An informative material survey contributing to a person's mental, physical, and social well being.

105 CONSUMER HEALTH

2 Units

Lecture: 2 hours

A survey of health fads, frauds, and fallacies most frequently encountered by today's health consumer in the marketplace; emphasis on developing individual awareness of questionable advertising and outright quackery.

110 SAFETY AND FIRST AID EDUCATION

2 Units

Lecture: 2 hours

Theory and skills involved in the immediate and temporary care given to the victims of accidents and sudden illnesses. Covers Red Cross Standard First Aid with certificate available upon satisfactory completion of course. May be repeated one time.

113 ADVANCED FIRST AID AND EMERGENCY CARE

3 Units

(No previous course required.)

Lecture: 3 hours To develop functional capabilities of individuals who as a part of everyday experiences may be required to provide emergency first aid care prior to care by qualified medical personnel.

May be repeated one time.

1 Unit 115 ADVANCED FIRST AID AND **EMERGENCY CARE REFRESHER**

Prerequisite: A valid certificate in Advanced First Aid Lecture: 1 hour

A review of emergency first aid care. Upon the successful completion of the course a certificate is issued for Advanced First Aid and Emergency Care.

May be repeated three times.

120 NUTRITION

3 Units

Prerequisite: One year of high school chemistry with a grade of "B" or better or Chemistry 100 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Introductory study of energy and nutrient requirements of the body in relation to growth, maintenance, and reproduction; factors influencing normal metabolism; construction of the adequate diet. Emphasis is placed upon the chemical aspects of nutrition.

HEALTH OCCUPATIONS

179 WORK EXPERIENCE IN HEALTH OCCUPATIONS

1-4 Units

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals 1 unit of credit

60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in Health Occupations. The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

HEAVY EQUIPMENT

BUS DRIVER TRAINING

1.5 Units

Prerequisite: Possession of a valid California driver's license Lecture: 1.5 hours

Instruction in the driver's responsibility for pupils, care and operation of a school bus, and laws relating to pupil transportation.

HISTORY

LOCAL HISTORY THE MOTHER LODE

.5 Unit

Lecture: .5 hour

History and folklore of California's historic Gold Rush Country. Topics will include Indians, miners, immigrants, loggers, cowboys, railroaders, and entertainers. Lectures and visual aids will feature America's Gold Rush heritage.

104a WORLD CIVILIZATIONS: to 1650 3 Units

Lecture: 3 hours

Survey of civilizations to 1650: origins in Near East and Asia, development in Greece, Rome, medieval Europe, Africa, and the Americas to colonial empires.

3 Units 104b WORLD CIVILIZATIONS: 1650 to Present

Lecture: 3 hours

Survey of civilizations since 1650: emergence of strong national states, their struggle for world status, and their impact on international affairs.

117a UNITED STATES: to 1865

3 Units

Lecture: 3 hours

Survey of United States history from Colonization to Reconstruction. Analysis of English Imperialism, Revolution, Nationalism, Political Democracy, Sectionalism, and Civil War.

117b UNITED STATES: 1865 to Present

3 Units

Survey of United States history from Reconstruction to the present. Analysis of Industrialism, Progressivism, New Deal, Internationalism, and Contemporary America.

121 HISTORY OF CALIFORNIA

3 Units

Survey of California history from pre-Columbia period to the present. Emphasis will include the Indians, Spaniards, Mexicans, and Anglo-Americans. Considerable attention will be devoted to California's influential role in national and world events.

133 ORAL HISTORY

Lecture: 3 hours

Lecture: 3 hours

2 Units

Lecture: 1 hour Laboratory: 3 hours

Fundamentals of the tape-recorded interview. Demonstrations and discussions of the interview as a method in historical research and writing.

149 THE MOTHER LODE

3 Units

Lecture: 3 hours History and lore of the Gold Rush country with emphasis on the Central Sierra communities.

155 THE AMERICAN FRONTIER

3 Units

Lecture: 3 hours Influence of successive frontier zones and hostile environments in reshaping imported customs and habits into uniquely "American" characteristics. Emphasis will be on the 19th Century.

HOSPITALITY MANAGEMENT

See Page 34-35 for Certificate Requirements

101 INTRODUCTION TO 3 Units THE HOSPITALITY INDUSTRY

Lecture: 3 hours

Survey of the hotel-motel, food services, traveltourism, club and recreation business. Analysis of the organizational structure of the hospitality industry, including historical development and examination of industry trends. Major emphasis will be placed on career planning and management in the hospitality industry.

Field trips may be required.

HOSPITALITY SERVICES

3 Units

Lecture: 3 hours

103 MARKETING OF

A study of people, product, package, price, and promotion, and how they interrelate and constitute the ingredients in a marketing program.

Field trips may be required.

112 FRONT OFFICE MANAGEMENT/ 3 Units HOTEL CATERING

Lecture: 2 hour

Laboratory: 3 hours

Essential equipment, routines, and duties of the front desk clerk and relationship to other hotel departments; planning and preparation for private parties, dinners, meetings, and other special events that a hotel or restaurant may cater.

114 INTRODUCTION TO 1.5 units MAINTENANCE AND HOUSEKEEPING

Lecture: 1.5 hours

Provides essential technical information on equipment and its servicing to establish a preventive maintenance routine. Provides broad scope of the housekeeping position, stressing employee responsibilities, record-keeping, and use of equipment and materials.

116 LAWS OF INNKEEPING

Lecture: 1 hour

Legal relationships between California innkeepers and others; rights, duties, and liabilities of innkeepers and their personnel.

Field trips may be required.

Food Services

130 FOOD SERVICE MANAGEMENT 2 Units

Lecture: 2 hours

Introduction to culinary nomenclature, cost controls, kitchen equipment, planning, management reports, menu planning, food purchasing, nutrition and sanitation.

Field trips may be required.

131 DINING ROOM SERVICE

3 Units

1 Unit

Lecture: 1.5 hour Laboratory: 4.5 hours

Developing the individual's abilities to cope with public and in-house demands. Service techniques, table settings, and etiquette used in all aspects of dining room service. Emphasis on developing the finer points in skills and showmanship. Concentration on building moral and personal skills. Field trips may be required.

1.5 Units 132 DINING ROOM MANAGEMENT Lecture: .5 hours

Laboratory: 3 hours

Management of service in the dining room; including the importance of service, how to organize and set up a dining room, what to look for in staff members, training new staff and front of the house's responsibility for safety and sanitation.

2 Units

133a INTRODUCTION TO 3.5 Units COMMERCIAL FOOD PREPARATION

Lecture: 1.5 hours Laboratory: 6 hours

History and careers in food service; the care and safe use and selection of culinary tools and equipment; safety and sanitation; menu planning, food costs, recipe conversion; inventory, food ordering, purveyor relationships, basic cooking techniques, storage, cash register procedures, money handling, short-order cooking, food preparation work; preparation of salads, dairy products, vegetables, sandwiches, breakfasts and beverages.

133b INTRODUCTION TO 3.5 Units COMMERCIAL FOOD PREPARATION

Prerequisite: Hospitality Management 133a with a grade of "C" or better or consent of instructor

Lecture: 1.5 hours Laboratory: 6 hours

Continuation of Hospitality Management 133a with emphasis on preparation of sauces, soups, vegetables, rice and farinaceous products; basic techniques of broiling, roasting, sauteing, and deep-fat frying of meat, poultry, fish, and shellfish.

135 COMMERCIAL BAKING

Lecture: 1 hour Laboratory: 6 hours

Tools, terms and functions in preparation of baked goods, gourmet desserts and cake decorating. Field trips may be required.

3 Units

136 COMMERCIAL BAKING 2 Units ADVANCED

Prerequisite: Hospitality Management 135 with a grade of "C" or better or consent of instructor

Lecture: 2 hours

Formulas used in commercial pastry shop, design, sugar decoration and chou paste cake decorating. Field trips may be required.

139 FOOD SCIENCE AND NUTRITION 3 Units Lecture: 3 hours

Scientific and sensory evaluation of food, composition and functional properties of foods; study of food processing, additives, and legal control of food safety; how the body utilizes these foods.

140a CLASSICAL CUISINE: 3 Units

Beginning

Prerequisite: Hospitality Management 133b with a grade of "C" or better or consent of instructor

Lecture: 1 hour Laboratory: 6 hours

Classical cuisine for the advanced food services students. Instruction in preparation, stocks, soups, sauces, and boiler stations.

140b CLASSICAL CUISINE:

3 Units

Prerequisite: Hospitality Management 140a with a grade of "C" or better or consent of instructor

Lecture: 1 hour Laboratory: 6 hours

Advanced

A continuation of Hospitality Management 140a. Instruction in the saute station with emphasis on taste, organization, speed, rhythm, and heat as factors associated with the line chef position.

142 GARDE MANGER

Prerequisite: Hospitality Management Food Service Technology certificate or satisfactory completion of equivalent test

Lecture: 1.5 hours Laboratory: 1.5 hours

Study of the work of Garde Manger which includes tools, vegetable and fruit carvings, appetizers, hors d'oeuvres, canapes, sauces, salads, force meats, tray presentations and decorations, centerpieces, table set-ups, room set-up and tabletop presentations and food show competitions. Field trips may be required.

144 MEAT ANALYSIS

2 Units

Lecture: 1.5 hours Laboratory: 1.5 hours

Study of various grades and cuts of meat and their use in restaurant sales. Cost control and fabrication.

Field trips may be required.

147a BEVERAGE MANAGEMENT

3 Units

Prerequisite: At least 21 years of age Lecture: 2 hours

Laboratory: 3 hours

Study of all aspects of beverage management including federal, state and local regulations, mixology, background, and future of the beverage industry.

Field trips may be required.

147b BEVERAGE MANAGEMENT

2 Units

Lecture: 2 hours

Control, distribution, planning of bar inventories and purchases, labor planning, laws.

148 HISTORY AND PRODUCTION 2 Units OF CALIFORNIA WINES

Lecture: 2 hours

Introduction to the history, development, production and types of wines. Field trips are required.

Recreation Industry

151 INTRODUCTION TO PARKS 3 Units AND RECREATION

Lecture: 2 hours

Laboratory: 3 hours

An introductory course for individuals interested in parks and recreation, with exposure to park management, design, maintenance and construction; recreational aspects, job opportunities and duties.

160 INTRODUCTION TO TRAVEL-TOURISM INDUSTRY/TOURS

Evolution of tourism as an industry. Survey of domestic and international travel, laws, services, communications systems, and interaction with other sectors of the hospitality industry; the principles and procedures of group tour management and planning.

Field trips may be required.

Lecture: 2 hours

179 WORK EXPERIENCE IN 1-4 Units HOSPITALITY MANAGEMENT

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals 1 unit of credit 60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in Hospitality Management. The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

HUMANITIES

101 OLD WORLD CULTURE

3 Units

Lecture: 3 hours

An introductory survey of humanistic culture, historically structured from classical Greece to the Renaissance, presenting enduring works of art, drama, literature, music, and philosophy.

102 MODERN CULTURE

3 Units

Lecture: 3 hours

An introductory survey of humanistic culture, historically structured from the Enlightenment to the present scene, presenting enduring works of art, drama, literature, music, and philosophy.

LAW ENFORCEMENT

140a ARSON INVESTIGATION 2 Units Beginning

Lecture: 2 hours

Designed to prepare new fire investigators and detectives from law enforcement to carry out the responsibility of arson detection and establish the foundation for an in-depth arson investigation. (Students may not receive credit for both Fire Science 127 and Law Enforcement 140ab.)

140b ARSON INVESTIGATION: 2 Units Advanced

Prerequisite: Law Enforcement 140a with a grade of "C" or better or consent of instructor

Lecture: 2 hours

A continuation of the introductory course emphasizing preservation of evidence, explosive devices, testimony as an expert, insurance laws, and advanced fire problems.

160 ADVANCED OFFICERS' TRAINING

.5-3 Units

Prerequisite: 24 Units in Law Enforcement or completion of recognized academy or consent of instructor

Designed to upgrade officers currently working in any phase of law enforcement. Studies include administration of justice, patrol procedures, criminal law, and criminal investigation.

May be repeated three times.

LIBRARY

101 INTRODUCTION TO LIBRARY RESOURCES

1 Unit

Lecture: .5 hour Laboratory: 1.5 hours

Instruction in the effective use of a library, its resources and services. Provides training in using the card catalog, periodical indexes, major reference tools, and in developing an effective search strategy.

MATHEMATICS

BASIC MATHEMATICS

2 Units

4 Units

Lecture: 2 hours

or Lecture: 1 hour

Laboratory: 3 hours

A basic course in arithmetic. Includes an introduction to algebra.

Offered for Credit/No Credit only.

BEGINNING ALGEBRA

Lecture: 4 hours

Lecture: 3 hours Laboratory: 3 hours

Introducton to algebraic structure; techniques to simplify, evaluate, and solve algebraic problems; and applications of algebra in a variety of con-

ENTRY LEVEL GEOMETRY

1 Unit

Prerequisite: One year of high school algebra or Mathematics 55 recommended Laboratory: 3 hours

An introduction to the symbols and vocabulary, relations, measurement, and application involving geometric concepts.

Offered for Credit/No Credit only.

GEOMETRY

3 Units

Prerequisite: Mathematics 55 or one year high school algebra recommended

Lecture: 3 hours

Lecture: 2 hours Laboratory: 3 hour

Rectilinear figures, circles, parallels, perpendiculars, areas, similarity, constructions, logic, and proofs.

101 INTERMEDIATE ALGEBRA

4 Units

Prerequisite: Mathematics 55 with a grade of "C" or better or one year high school algebra or consent of instructor

Lecture: 4 hours

Lecture: 3 hours

Laboratory: 3 hours

Study of algebraic structure; techniques to simplify, evaluate, and solve algebraic problems; application of algebra in a variety of contexts.

102 TRIGONOMETRY

4 Units

Prerequisite: A grade of "C" or better in Mathematics 60 or Mathematics 101 or second year high school algebra and one year geometry or consent of instructor

Lecture: 4 hours

Lecture: 3 hours

Laboratory: 3 hours

Mathematics of angles, triangles, trigometric functions, circular functions, trigonometrics, identities, graphs, and logarithms.

103 COLLEGE ALGEBRA

4 Units

3 Units

Prerequisite: Mathematics 101 with a grade of "C" or better or equivalent high school course or consent of

Lecture: 4 hours

Lecture: 3 hours Laboratory: 3 hours

Extension of algebraic concepts; includes quadratic equations, inequalities, systems of equations, complex numbers, matrices, determinants, and polynomial, exponential, and logarithmic functions.

104 INTRODUCTION TO LOGIC (See also Philosophy 104)

Lecture: 3 hours

Fundamentals of logic; deduction, including syllogisms, truth functions, symbolic quantification, and fallacies; induction, including probability, analogy, hypothesis, and the scientific method; philosophy of logic.

(Credit for this course will be awarded for either Mathematics 104 or Philosophy 104, but not both.)

105 ELEMENTS OF STATISTICS

4 Units Prerequisite: Mathematics 101 with a grade of "C" or better or second year high school algebra or consent of instructor

Lecture: 4 hours

Lecture: 3 hours

Laboratory: 3 hours

Statistical concepts of probability, analysis and significance of measurements, measures of central tendency, correlation, variation, distributions, and reliability and validity of tests.

110 FINITE MATHEMATICS

4 Units

Prerequisite: Mathematics 101 with a grade of "C" or better or two years of high school algebra or consent of

Lecture: 4 hours

Lecture: 3 hours Laboratory: 3 hours

Symbolic, logic, sets, probability, vectors, matrices, and game theory.

120a CALCULUS WITH 4 Units ANALYTIC GEOMETRY

Prerequisite: Two years of high school algebra, one year of plane geometry, and one-half year of trigonometry or Mathematics 102 with a grade of "C" or better, Mathematics 103 recommended

Lecture: 4 hours

Lecture: 3 hours Laboratory: 3 hours

An integrated course in calculus and analytic geometry including limits, continuity, differentiation, and integration with applications, transcendental functions, infinite series conics, and polar coordinates.

120b CALCULUS WITH ANALYTIC GEOMETRY

Prerequisite: Mathematics 120a with a grade of "C" or better or consent of instructor

Lecture: 4 hours

or Lecture: 3 hours

Laboratory: 3 hours

Polar coordinates, vectors in the plane, techniques in integration, and applications of the integral.

120c VECTOR AND MULTIVARITE CALCULUS

4 Units

4 Units

Prerequisite: Mathematics 120b with a grade of "B" or better Lecture: 3 hours

Laboratory: 3 hours

Vectors and solid analytic geometry, vectorvalued functions, partial differentiation, multiple integrals, vector fields, and topics in vector calculus.

MEDIA TECHNOLOGY

152a VIDEO PRODUCTION: BEGINNING 3 Units

Lecture: 2 hours

Laboratory: 3 hours

The art and technique of beginning video production stressing the skills of camera, lighting, editing, and sound. Emphasis on production techniques for the local public access channel.

152b VIDEO PRODUCTION: ADVANCED 3 Units

Prerequisite: Media Technology 152a with a grade of "C" or better or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours

To utilize the skills learned in Media Technology 152a and apply them to production of programs on the local public access channel.

MUSIC

100 MUSIC FUNDAMENTALS

2 Units

Lecture: 2 hours Introduction to traditional musical notation, key signatures, scales, intervals and chords, sight singing and ear training.

102 INTRODUCTION TO MUSIC 3 Units

Lecture: 3 hours

Study and analysis of music, including instrumentation, form, basic elements, and general background of styles and composers.

109 PERFORMANCE PRACTICUM .5 Units

Activity: 1.5 hour

A series of concerts and recital demonstrations involving students, staff and visiting artists for the development of performance methodology and critical listening skills.

110a SURVEY OF MUSIC HISTORY 3 Units AND LITERATURE: Ancient to 1750

Lecture: 3 hours

A survey of elements of style, major composers, and masterpieces of music from the Greek era through the Medieval, Renaissance, Baroque, and Early Classic periods, from 1000 B.C. through 1750 A.D. Includes the music of Palestrina, Bach, and Handel.

110b SURVEY OF MUSIC HISTORY 3 Units AND LITERATURE: 1750 to Present

Lecture: 3 hours

A survey of elements of style, major composers, and masterpieces of music during the Classic, Romantic, and 20th Century periods, from 1750 to the present. Includes music of Mozart, Beethoven, Wagner, Debussy, Schoenberg, and Capland.

120a MUSIC THEORY

Lecture: 5 hours

Analysis of the essentials for understanding and writing music. Included are rhythm, scales, intervals, chords, notation, melody writing; study of diatonic 4-part harmony, figured bass, chord progressions, harmonic motion, ear training, and keyboard applications.

120b MUSIC THEORY

5 Units

5 Units

Prerequisite: Music 120a with a grade of "C" or better or consent of instructor

Lecture: 5 hours

Continuing study in harmony and analysis. Included are secondary dominants, modulation, altered chords, non-harmonic notes, extended chords, harmonic ear training, and keyboard harmony.

126 COMPOSITION

3 Units

Prerequisite: Music 120b with a grade of "C" or better or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours

Composing in various musical styles as well as synthesis of student's own style. Study and analysis of different methods of composition of music in relation to project chosen by student. May be repeated one time.

131a ELEMENTARY CLASS PIANO 1.5 Units

Lecture: 1 hour

Activity: 2 hours

An introduction to the skill of piano playing based on music reading; fundamentals of rhythm, notation, and technique. Basic theory will include knowledge and application of musical terms, scales, key signatures, and chords.

131b ELEMENTARY CLASS PIANO 1.5 Units

Prerequisite: Music 131a with a grade of "C" or better or consent of instructor.

Lecture: 1 hour

Activity: 2 hours

Continuation of the fundamentals of piano performance with emphasis given to the essentials of music reading. Theory will include the presentation of scales and keys, both major and minor, review and application of chords and inversions, and an introduction to improvisation. Piano literature will include both classical and popular compositions as well as exercises and technical studies.

136a ELEMENTARY CLASS VOICE 1.5 Units

Lecture: 1 hour

Activity: 2 hours

Group and individual instruction in singing at a beginning level including improving and strengthening vocal tone, extending the vocal range, selecting songs and performing.

136b ELEMENTARY CLASS VOICE 1.5 Units

Prerequisite: Music 136a with a grade of "C" or better or consent of instructor.

Lecture: 1 hour

Activity: 2 hours

Group and individual instruction in singing including continued work in strengthening and expanding the vocal range and reinforcement of vocal skills taught in Music 136a.

141a INTERMEDIATE CLASS PIANO 1.5 Units

Prerequisite: Music 131b with a grade of "C" or better or consent of instructor.

Lecture: 1 hour

Activity: 2 hours

Study of playing techniques requiring the full range of the piano and covering piano literature from 1700 to the present emphasizing style and interpretation.

141b INTERMEDIATE CLASS PIANO 1.5 Units

Prerequisite: Music 141a with a grade of "C" or better or consent of instructor

Lecture: 1 hour Activity: 2 hours

Continuation of Music 141a.

1.5 Units 146a INTERMEDIATE CLASS VOICE

Prerequisite: Music 136b with a grade of "C" or better or consent of instructor.

Lecture: 1 hour Activity: 2 hours

Group and individual instruction in the refinement of singing technique using classical and popular solo repertoire from 1600 to the present and emphasizing style, interpretation, vocal physiology, and increased musicianship.

146b INTERMEDIATE CLASS VOICE

1.5 Units Prerequisite: Music 146a with a grade of "C" or better or consent of instructor.

Lecture: 1 hour Activity: 2 hours

Group and individual instruction in advanced/intermediate vocal techniques including advanced song literature, interpretation, physiology, and increased musicianship.

150 SERIES — APPLIED MUSIC

Prerequisite: Audition. Concurrent enrollment in Music 109 recommended

Lecture: 1 hour

Study of performance techniques, interpretation, and repertoire related to private music instruction. Designated for music majors and minor.

May be repeated three times.

150 APPLIED MUSIC: Guitar	1 Unit
151 APPLIED MUSIC: Keyboard	1 Unit
152 APPLIED MUSIC: Woodwinds	1 Unit
153 APPLIED MUSIC: Brass	1 Unit
154 APPLIED MUSIC: Strings	1 Unit
155 APPLIED MUSIC: Percussion	1 Unit
156 APPLIED MUSIC: Voice	1 Unit
157 APPLIED MUSIC: Synthesizer	1 Unit

160 CHOIR Activity: 3-6 hours

Study and performance of mixed choral works of various periods and styles.

May be repeated three times.

164 JAZZ CHOIR 1 Unit

Prerequisite: Audition Activity: 3-6 hours

Study and performance of vocal jazz and improvisation in an ensemble of limited size.

May be repeated three times.

165 THEATER PRODUCTION: 1 Unit **Music Emphasis**

Prerequisite: Audition Activity: 3-6 hours

Directed activities in theatre production for public performance with a concentration in vocal or instrumental music.

May be repeated three times.

166 COMMUNITY CHORUS

1 Unit

Activity: 3-6 hours Study and performance of mixed choral works of various styles and periods. Includes development of vocal technique and musicianship. May be repeated three times.

169 MADRIGAL ENSEMBLE

1 Unit

Prerequisite: Audition Activity: 3-6 hours

Study and performance of vocal chamber music with emphasis on the Renaissance and Contemporary periods.

170 COLLEGE BAND

1 Unit

Activity: 3-6 hours Study and performance of band repertoire of all styles.

May be repeated three times.

172 JAZZ ENSEMBLE

1 Unit

1 Unit

Prerequisite: Audition. Concurrent enrollment in Music 109 recommended

Activity: 3-6 hours

Study and performance of instrumental jazz and improvisation; techniques of improvisation will be explored.

May be repeated three times.

176 COMMUNITY ORCHESTRA

Prerequisite: Audition for wind, brass, and percussion players as needed

Activity: 3-6 hours

Study and performance of orchestral literature of various styles and media.

May be repeated three times.

178 ENSEMBLE:

1 Unit

1 Unit

Instrumental Emphasis

Prerequisite: Audition. Concurrent enrollment in Music 109 recommended

Activity: 3-6 hours

Study and performance of music for small ensembles, duets, and chamber groups.

May be repeated three times,

NATURAL RESOURCES

See Page 35 for Certificate Requirements

100 ENVIRONMENTAL CONSERVATION 3 Units

Lecture: 3 hours

Conservation of the biological and physical environment. History of the conservation movement. A case-study approach to land use practices of environmental conservation with current topics on endangered species, environmental pollution, wilderness management, energy, population and the uniqueness of California and Alaska natural resources.

Field trips may be required.

105 ALTERNATIVE ENERGY SOURCES 3 Units

Lecture: 2 hours

Laboratory: 3 hours

Home energy conservation and energy-efficient construction methods. Practical applications of solar, wind, and hydro-energy systems for heating, cooling, food drying, water pumping and electrical production.

Field trips will be required.

109 PARKS AND FORESTS LAW ENFORCEMENT

Lecture: 2 hours

2 Units

Knowledge and skills required in areas of constitutional, criminal, and civil law as related to law enforcement activities conducted by resource agen-

Field trips may be required.

130 WILD EDIBLE AND USEFUL PLANTS

3 Units

Lecture: 2 hours Laboratory: 3 hours

Survey of wild edible and useful plants with particular emphasis on the Sierra Nevada. Methods of collection, preserving and preparing wild plants with an emphasis on acorn preparation. Use of plant identification keys. Exposure to the nutritional content of plants, poisonous plants, basketry, dyeing, wild herbs and maple sugaring. Field trips will be required.

NATURAL RESOURCES TECHNOLOGY

See Page 35 for Certificate Requirements

NATURAL HISTORY AND ECOLOGY

Lecture: 2 hours

2 Units

Natural history and ecology with emphasis on the interrelationships among plants, animals, soils, geology and climate of California. Selected topics on plant succession, terrestrial and aquatic ecosystems, organism adaptation and diversity, evolution, California's physical/biological environment, California biomes, and Sierra Nevada Life Zones. Field trips will be required.

APPLIED WILDLANDS MANAGEMENT

3 Units

Prerequisite: Natural Resources Technology 60 recommended Lecture: 2 hours Laboratory: 3 hours

Techniques of managing wildlands for maximum forage, soil, water, wildlife and recreation quality. Field observations and applications for restoration and protection of watershed, range, wildlife

and recreation values.

Field trips will be required.

55 INTERPRETIVE GUIDED TOURS 2 Units

Lecture: 2 hours

Methods of meeting and serving diverse public groups in their social, cultural and recreational use of wildland recreation sites.

Field trips will be required.

AERIAL PHOTOGRAPHY AND MAP INTERPRETATION

Lecture: 1 hour

Laboratory: 3 hours

Use of basic photogrammetric instruments and equipment. Techniques of delineating soil vegetation and timber types and distinguishing physical features on aerial photographs. Techniques of interpretation of planimetric, topographic, orthophoto topographic and geologic maps. Principles of remote sensing.

Field trips may be required.

WATER FOR CONSUMPTION 3 Units

Lecture: 3 hours

Study of present and future sources of community water supply with special attention to state standards for potable water. Analysis, processing, treatment, quality control, storage and distribution of community water.

Offered for Credit/No Credit only.

Meets Water Treatment Plant Operator state certification prerequisite for examination at Grade 2 level. Field trips may be required.

81 CALIFORNIA WILDLIFE

4 Units

2 Units

Lecture: 4 hours

Study of the field identification characteristics, habitat requirements, life history, management and population dynamics of selected California mammals, birds and fish. Methods and problems of appraising and manipulating game mammals, furbearers, upland game and fisheries to improve populations. Techniques of habitat appraisal and manipulation to improve wildlife populations. Field trips are required.

179 WORK EXPERIENCE IN 1-4 Units FORESTRY AND NATURAL RESOURCES

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience, During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals I unit of credit 60 hours unpaid employment equals 1 unit of credit.

Provides students an opportunity to experience supervised employment in Forestry and Natural Resources. The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any Work Experience course.

PHILOSOPHY

101 INTRODUCTION TO PHILOSOPHY 3 Units Lecture: 3 hours

Survey of the field of philosophy, including human nature, meaning in life, values in ethics, in social justice, and in art; knowledge, truth, logic, and the scientific method; ultimate reality and philosophy of religion.

104 INTRODUCTION TO LOGIC 3 Units (See also Mathematics 104)

Lecture: 3 hours

Fundamentals of logic: deduction, including syllogisms, truth functions, symbolic quantification, and fallacies, induction, including probability, analogy, hypothesis, and the scientific method; philosophy of logic.

(Credit for this course will be awarded in either Philosophy 104 or Mathematics 104, but not both.)

115 WORLD RELIGIONS

3 Units

Lecture: 3 hours Development of religious consciousness from primitive beliefs in ancient times to the living religions of the world: tribal religions of Native American and Africans, Hinduism, Buddhism, Taoism, Shinto, Judaism, Christianity, Islam, and new religions and cults in America.

125 TWENTIETH CENTURY 3 Units PHILOSOPHY

Lecture: 3 hours

A brief survey of twentieth century philosophy emphasizing the leading exponents of each school of thought and their contributions to our understanding of man, nature, society, history, science, technology, human values and the meaning of life.

PHOTOGRAPHY

(See ART - Page 57)

PHYSICAL EDUCATION

101 INTRODUCTION TO 2 Units PHYSICAL EDUCATION

Lecture: 2 hours

The background and principles of physical education and sports. Study of the aims and objectives of modern physical education with a view toward development of basic philosophy and background for professional education.

103 BASKETBALL: ADVANCED THEORY AND PRACTICE

2 Units

Lecture: 1 hour Activity: 3 hours

Advanced concepts, strategy, and practice necessary in the playing and understanding of collegiate basketball.

May be repeated two times.

105 PERSONAL FITNESS 3 Units **CONCEPTS AND EVALUATIONS**

Lecture: 2 hours Activity: 3 hours

A study of "how," "why," and "what" of physical activity and exercise. This course is intended to help students make important decisions about their own personal exercise program and their personal physical fitness directions for a lifetime.

112 THEATRE PRODUCTION: 1-2 Units DANCE EMPHASIS

Prerequisite: Audition Laboratory: 3-6 hours

Directed activities in theatre production for public performance with a concentration in dance. May be repeated three times.

116 DANCE PRODUCTION

2 Units

Prerequisite: Audition and concurrent enrollment in Physical Education 117

Activity: 6 hours

Dance production for public performance; theory and practice in choregraphy, performance styles, and dance rehearsal combined with theatrical structure, non-verbal dramatic techniques, and technical staging designed for concert presenta-

May be repeated three times.

117 CHOREOGRAPHY AND 3 Units COMPOSITION

Prerequisite: Previous or concurrent enrollment in P.E. 116 or consent of instructor and P.E. 123 or P.E. 127 or P.E. 129 or P.E. 130 all with a grade of "C" or better or consent of instructor

Lecture: 2 hours Activity: 3 hours

Exploration of choreography fundamentals through a problem solving approach. Studies deal with aspects of time, space, dynamic and design in movement with emphasis on extending communication skills of the body.

Activity Courses

120 AEROBIC EXERCISE I .5-1.5 Units

Activity: 1.5-4.5 hours

Designed to promote cardiovascular fitness, flexibility, muscle tone, and general overall conditioning.

.5-1.5 Units 121 AEROBIC EXERCISE II

Prerequisite: P.E. 120 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5 hours

A rigorous exercise class designed to increase cardiovascular fitness. Each workout will include exercises to build strength, flexibility, and endurance.

May be repeated two times.

123 BALLETI

Activity: 1.5-4.5 hours

1.5-1.5 Units

Introduction to fundamental classical technique, including basic concepts, positions, and combinations designed to acquaint the student with ballet as an expressive art form while developing strength, flexibility, and coordination.

124 BALLET II .5-1.5 Units

Prerequisite: P.E. 123 with a grade of "C" or better or consent of instructor Activity: 1.5-4.5 hours

Continuing study of techniques and principles of classical ballet including phrasing, combinations, and stylistic elements.

May be repeated two times.

127 DANCE, JAZZI

awareness.

.5-1.5 Units

Activity: 1.5-4.5 hours Introduction to the fundamentals of jazz dance designed to acquaint the student with basic technique in a cultural and historical context while developing strength, flexibility, and stylistic

128 DANCE, JAZZ II .5-1.5 Units Prerequisite: P.E. 127 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5 hours

Continuing work in jazz dance with emphasis on developing stylistic elements and performance techniques. Specific attention given to learning extended movement combinations and compositional forms indigenous to American jazz. May be repeated two times.

129 DANCE, CONTEMPORARY I .5-1.5 Units

Activity: 1.5-4.5 hours

Introdution to modern dance movement. Fundamentals, basic movement, and composition presented and practiced as an opportunity for creative self-expression.

130 DANCE, CONTEMPORARY II .5-1.5 Units

Prerequisite: P.E. 129 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5 hours

Contemporary dance technique at the intermediate level with emphasis on developing artistic competence, performance skills, and basic choreographic concepts.

May be repeated two times.

132 FENCING .5-1.5 Units

Activity: 1.5-4.5 hours

Introduction to swordsmanship for men and women. Fencing with the French foil, with instruction in the basic skills, rules and officiating of the sport. Intra-class contests will be played. May be repeated three times.

134 GOLFI

.5-1.5 Units

Activity: 1.5-4.5 hours

Instruction and practice in fundamentals.

135 GOLF II

.5-1.5 Units

.5-1.5 Units

Prerequisite: P.E. 134 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5- hours

Instruction and practice in skills, rules and strategy.

May be repeated two times.

137 DISTANCE RUNNING .5-1.5 Units

Activity: 1.5-4.5 hours

Instruction and practice in the sport of distance running with emphasis on training techniques to enable students to safely negotiate distances of 2 or more miles.

May be repeated three times.

138 SKIING CONDITIONING

Activity: 1.5-4.5 hours

Instruction in progressive exercises and conditioning for snow skiing.

May be repeated three times.

139a SKIING—ALPINE: BEGINNING .5-1.5 Units

Activity: 1.5-4.5 hours

Instruction and practice in basic fundamentals of snow skiing on the slopes. Care and selection of equipment, terminology, and safety included. Offered for Credit/No Credit only.

139b SKIING—ALPINE: ADVANCED .5-1.5 Units

Prerequisite: Physical Education 139a or consent of instructor. Activity: 1.5-4.5 hours

Instruction and practice in intermediate through advanced snow skiing techniques employed by the American teaching method. Classes are held on

the ski slopes. Offered for Credit/No Credit only.

140 SKIING: CROSS COUNTRY .5-1.5 Units

Activity: 1.5-4.5 hours

Instruction and practice for snow skiing in the open country. Care and selection of equipment. safety, and outdoor orientation emphasized. Offered for Credit/No Credit only.

May be repeated one time.

142 RACQUET SPORTS

.5-2 Units

Activity: 1-4 hours

An introductory level course with instruction and practice in badminton and paddle tennis. Each activity is taught for nine weeks and provides the students with an exposure to the fundamentals, rules, and strategy of each.

May be repeated three times.

143 TENNISI

.5-1.5 Units

Activity: 1.5-4.5 hours

Instruction and practice in fundamentals of Eastern grip tennis. Emphasis on development of sound ground strokes, serve and volley. Includes rules, scoring, and game play in both singles and doubles tennis.

144 TENNIS II

.5-1.5 Units

Prerequisite: P.E. 143 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5 hours

Instruction and practice in the advanced aspects of Eastern grip tennis. Emphasis on game play and development with individualized coaching and analysis for the more experienced player. Includes tactics and court coverage to encourage a more powerful game in both singles and doubles tennis. May be repeated two times.

146 VOLLEYBALLI

.5-1.5 Units

Activity: 1.5-4.5 hours Basic techniques with emphasis on offensive and defensive tactics of team play. Rules and intraclass competition included.

147 VOLLEYBALL II

.5-1.5 Units

Prerequisite: P.E. 146 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5 hours

An intermediate level of skills and strategies for the experienced player; and introduction to power volleyball play.

May be repeated two times.

149 WEIGHT TRAINING I

.5-1.5 Units

Activity: 1.5-4.5 hours

Instruction in use of weights and body building equipment with emphasis upon individual program development.

WEIGHT TRAINING II

.5-1.5 Units

Prerequisite: P.E. 149 with a grade of "C" or better or consent of instructor

Activity: 1.5-4.5 hours

Designed to help individuals accomplish a fine state of physical fitness through the use of "overload" equipment and progressive resistance exercises. Each person shall, with the counseling of the instructor, analyze his/her particular needs and establish a program that will help accomplish these goals.

May be repeated two times.

151 BASKETBALL: MEN'S RULES .5-1.5 Units

Activity: 1.5-4.5 hours

Instruction, practice, and participation in game play. Emphasis on rules, individual and team skills, and team strategy.

May be repeated one time.

152 BASKETBALL: WOMEN'S RULES .5-1.5 Units

Activity: 1.5-4.5 hours

Instruction, practice, and participation in game play with emphasis on rules, individual and team skills, and team strategy. May be repeated one time.

155 SOCCER

.5-1.5 Units

Activity: 1.5-4.5 hours

Instruction, practice, and participation in game play. Emphasis on rules, individual skills, and strategy in the field. May be repeated three times.

158 ADAPTIVE PHYSICAL .5-1.5 Units **EDUCATION**

Activity: 1.5-4.5 hours

Designed to offer individually prescribed fitness direction to the physically limited with emphasis on the improvements of cardiovascular flexibility and strength components.

May be repeated three times.

Intercollegiate Athletics

162 VARSITY BASKETBALL

2 Units

Prerequisite: Must be enrolled as full-time student Activity: 10 hours

Preparation and training for intercollegiate varsity basketball competition. Participation in contests with other colleges will be scheduled.

Field trips will be required. May be repeated three times.

164 VARSITY TENNIS

2 Units

Prerequisite: Must be enrolled as full-time student Activity: 10 hours

Preparation and training for intercollegiate varsity tennis competition. Participation in contests with other colleges will be scheduled.

Field trips will be required May be repeated three times.

166 VARSITY VOLLEYBALL

2 Units

Prerequisite: Must be enrolled as full-time student Activity: 10 hours

Preparation and training for intercollegiate varsity volleyball competition. Participation in contests with other colleges will be scheduled.

Field trips will be required. May be repeated three times.

Adult Fitness Program

170 CARDIAC THERAPY PROGRAM: 1 Unit PHASE III

Prerequisite: Primary Physician Referral

Lecture: .5-1 hour Activity: 1.5-5 hours

A secondary prevention program designed for patients with angina pectoris, healed myocardial infarctions, or post-cardiac surgical referrals whose functional capacity is relatively uncompromised.

(Primary physician referral is mandatory.) May be repeated three times.

171 INTRODUCTION TO ADULT .5-1.5 Units FITNESS

Lecture: .5-1.5 hours

An overview of the essential principles of physical fitness for adults.

173a LIFETIME FITNESS PROGRAM I 1-3 Units

Lecture: .5-1.5 hours

Activity: 1.5-4.5 hours

Introduction to the fundamental principles and practices of scientific exercise conditioning, nutritional requirements, weight control techniques, coronary heart disease concept, and considerations of preventive medicine. Basic exercise routine involves the circuit training system.

173b LIFETIME FITNESS PROGRAM II 1-2 Units

Prerequisite: Physical Education 173a with a grade of "C" or

Activity: 3-6 hours

A continuation of the exercise principles and practices employing the circuit training system presented in Lifetime Fitness I with emphasis on improving fitness component level, compliance, motivation, and increased awareness of sound nutritional practices. May be repeated two times.

175 HEALTH AND PHYSICAL FITNESS WORKSHOP

1 Unit

Lecture: .5 hour Activity: 1.5 hours

Instruction in the relationship between the human body, health and physical fitness. Testing to establish individual fitness status involves exercise electrocardiogram, body composition, analysis, flexibility and strength evaluations followed by the design of and participation in a personal fitness program with particular emphasis on aerobic type activities.

May be repeated three times.

PHYSICS

100 CONCEPTUAL PHYSICS

3 Units

Prerequisite: Mathematics 55 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

A conceptual investigation of the physics of motion, energy, light and color, gravitation, vibrations and waves as well as an introduction to black holes and relativistic time travel.

120a GENERAL PHYSICS

5 Units Prerequisite: Mathematics 120ab with a grade of "C" or better or Mathematics 102 with a grade of "C" or better and concurrent enrollment in Mathematics 120a or consent of instructor

Lecture: 4 hours Laboratory: 3 hours

A general calculus level investigation of Newtonian mechanics and wave motion.

120b GENERAL PHYSICS

5 Units

Prerequisite: Physics 120a with a grade of "C" or better or consent of instructor

Lecture: 4 hours Laboratory: 3 hours

A general calculus level investigation of the physics of temperature and heat, thermodynamics, electricity and magnetism.

POLITICAL SCIENCE

101 CONSTITUTIONAL GOVERNMENT 3 Units

Lecture: 3 hours

Basic principles of United States and California constitutional governments with emphasis on dynamics of the American federal system, governmental power and sources of power at the national, state, and local levels and the rights and responsibilities of democratic citizenship.

110 AMERICAN POLITICAL THOUGHT 3 Units

Lecture: 3 hours

Historical survey of American political processes, traditions, and aspirations. Emphasis will be on contemporary political issues.

115 INTERNATIONAL RELATIONS

Lecture: 3 hours

Dynamics of interstate relations; diplomacy and international law; international, regional and supranational organizations; war and peace; foreign policy.

125 COMPARATIVE POLITICAL SYSTEMS

3 Units

3 Units

Lecture: 3 hours

Comparative analysis of major political cultures and systems in the Western and non-Western world.

PSYCHOLOGY

101 GENERAL PSYCHOLOGY

3 Units

Lecture: 3 hours An introductory survey course of the general field of psychology. Topics to be covered include conditioning, personality development, aggression, emotions, stress, anxiety, therapy, sexuality, motivation, consciousness, biology and behavior, and abnormal psychology.

102 CURRENT ISSUES IN **PSYCHOLOGY**

3 Units

Prerequisite: Psychology 101 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

A look at the more advanced areas of study in psychology, concentrating on current theoretical approaches and research findings regarding areas of controversy.

103 SOCIAL PSYCHOLOGY

3 Units

Prerequisite: Psychology 101 with a grade of "C" or better or consent of instructor Lecture: 3 hours

Interrelationship between the individual and his social environment. Social influence upon motivation, perception, group pressure, conformity, attraction, prejudice, behavior. Development of changes of attitudes and opinions. Psychological analysis of small groups, social stratification and mass phenomena.

125 BIOFEEDBACK AND STRESS MANAGEMENT

Lecture: 3 hours

AULW

Lifestyles, psychological coping strategies, communication techniques, and the philosophical context which underlie and promote self-control, optimal well-being, and potential of the student; use of biofeedback equipment to enhance self-awareness and to learn the "relaxation response."

130 PERSONAL AND SOCIAL ADJUSTMENT

3 Units

3 Units

3 Units

Lecture: 3 hours

The study of personal growth and adjustment to help prepare the individual for lifelong understanding of self. Discussion of personality development, interpersonal relations, sexuality, stress management, family dynamics, dealing with losses and other concerns of the individual in our society.

Field trips may be required.

145a DEVELOPMENTAL PSYCHOLOGY 3 Units Prenatal Through Early Childhood

Prerequisite: Psychology 101 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

Research and theories in developmental psychology from prenatal life through early childhood, covering physical, social, emotional, cognitive, language, and personality development. Issue of heredity and environment considered.

145b DEVELOPMENTAL PSYCHOLOGY Later Childhood Through Adulthood

Prerequisite: Psychology 101a, Psychology 145a recommended Lecture: 3 hours

Research and theories in developmental psychology from later childhood through adulthood, covering continuing developmental changes and special concerns of these years, e.g., peer acceptance, sexuality, sex roles, drug usage, parent-child relations, career choices, mid-life crisis, etc.

160 PERSONALITY THEORY

Prerequisite: Psychology 101 with a grade of "C" or better or consent of instructor

Lecture: 3 hours

A survey course of the various theories of personality development.

SEARCH AND RESCUE

See Page 37 for Certificate Requirements

103 ENVIRONMENTAL INJURIES 1 Unit

Prerequisite: Previous enrollment in Health Education 113 is recommended

Lecture: 1 hour

A review of injuries caused by recreational and vocational activities in the outdoors, including heat, cold, water, altitude, and animal-caused injuries.

105 MOUNTAIN MEDICINE

1 Unit

Prerequisite: Health Education 113 is recommended Lecture; I hour

Review of common injuries and illnesses encountered in the outdoors. Emphasis on improvised treatment of trauma with a minimum of manpower, equipment and mobility, includes discussion of psychological aspects, proper nutrition, diseases arising from travel in rural areas and recommended first aid supplies.

107 BASIC SURVIVAL

1 Unit

Lecture: 1 hour

An intensive seminar in short-term wilderness survival with emphasis on preventing survival emergencies by psychological and skills preparedness. Human energy and water balance will be stressed as well as correctemergency responses to survival in arid and cold climates. Also included will be instruction regarding proper clothing and makeup of a simple, inexpensive survival kit.

109 COLD WEATHER SURVIVAL

1 Unit

Lecture: I hour

An intensive seminar in short-term survival in cold and wet wilderness environments. Psychological skills, equipment preparedness and emergency prevention will be emphasized. Adaptation of basic skills to the factors of snow, rain, and high winds will be stressed. Illnesses caused by cold/wet environment will be reviewed.

110 INTRODUCTION TO SEARCH THEORY

2 Units

Lecture: 2 hours

An overview of current search theories as developed by the National Park Service and the National Association for Search and Rescue.

112 ORGANIZATION AND 2 Units DIRECTION OF A SEARCH

Lecture: 2 hours

Comprehensive review of Search and Rescue 110 expanding into multi-agency considerations. Designed for the inservice professional or volunteer. National association of Search and Rescue certification available to the student upon successful completion of the course.

114 TRACKING AND SIGN CUTTING 1 Unit

Lecture: 1 hour

An overview of current tracking theories and techniques as developed by the U.S. Border Patrol.

Offered for Credit/No Credit only. Field trips may be required.

116 THE USE OF SEARCH AND RESCUE DOGS

Lecture: 1 hour

Designed to familiarize search and rescue personnel with the uses and limitations of Search and Rescue dogs; availability of dog units, call-out procedures, OES transportation availability, weather, terrain factors, avalanche dogs and night searching.

Offered for Credit/No Credit only. Field trips may be required.

122 WILDERNESS NAVIGATION

2 Units

1 Unit

Lecture: 1.5 hours

Laboratory: 1.5 hours

Review of useful maps, compass and navigation techniques for outdoor activities; wilderness route-finding and orientation using terrain clues, map and compass, reduction of error via multiperson techniques and concise communication of location.

126 GRID SEARCH TECHNIQUES

1 Unit

Lecture: 1 hour

An overview of current non-winter grid search techniques as developed by William G. Syrotuck and the National Association of Search and Rescue.

Offered for Credit/No Credit only.

130 INTRODUCTION TO RESCUE TECHNIQUES

2 Units

Lecture: 2 hours

A survey course covering the following three specialized areas critical to an effective and field safe search and rescue person: rescue carries, rope management and communication.

132 ASCENDING AND DESCENDING 1 Unit TECHNIQUES

Prerequisite: Search and Rescue 130 with grade of "C" or better or consent of instructor

Lecture: .5 hours Laboratory: 1.5 hours

Review of rope safety techniques for rescue personnel with emphasis on methods of ascent and descent for rescuer and ambulatory victims in various rescue environments. Instruction and demonstration of safe techniques for the ascent and descent of slopes, buildings and cliffs. Emphasis on rope-safety techniques; knots, belaying and anchors; basic four-point climbing techniques and use of friction knots and mechanical ascenders. Handling and safe use of fire-service ladders reviewed.

Offered for Credit/No Credit only. Field trips may be required.

134 HELICOPTER OPERATIONS

Lecture: 1 hour

The role of the helicopter in rescue situations with emphasis on the role of ground rescue personnel. Helicopter safety rules, interagency helicopter request information and procedures, selecting a landing zone, evaluations, inserts, crash procedures, and communications.

Offered for Credit/No Credit only.

135 AVALANCHE RESCUE

1 Unit

.5 Unit

1 Unit

Lecture: .5 hours Laboratory: 1.5 hours

This course will introduce the rescue student to the basic concept dealing with avalanche, mountain snowpack, avalanche phenomena, meteorology, stability evaluation, avalanche safety, search and rescue.

136 SWIFTWATER RESCUE

Laboratory: 1.5 hours

A general introduction to the problems and solutions of river and flood rescue for emergency personnel, whitewater guides and outfitters and interested recreationalists with an emphasis on applicable techniques for effecting rescues in up to Class VI Whitewater while working to assure the safety of the rescuers.

Offered for Credit/No Credit only.

150 ROPE RESCUE

1.5 Units

Lecture: 1.5 hours

Instruction in techniques used to evacuate injured parties in various settings. Demonstrations of the use of the stokes litter in conjunction with mechnical advantage rope systems in gentle and moderate terrain situations. Review of rope safety belaying and anchoring techniques.

Offered for Credit/No Credit only.

151 RAPELLING SAFETY/TOWER RESCUE FOR THE FIRE SERVICE 1 Unit

Lecture: 1 hour

Designed to update rescue personnel in equipment and technical developments in rappelling. Emphasis on individual safety, rescue of the injured or trapped rappeller and safe management of the training tower and/or incident scene, review and discussion of documented rappelling accidents.

Offered for Credit/No Credit only.

153 VEHICLE EXTRICATION

1 Unit

Lecture: I hour

Use of the Hurst Tool and Black Hawk Extrication kits; hands-on instruction on various extrication techniques with special emphasis given to patient management and handling at the accident scene.

Offered for Credit/No Credit only Field trips may be required.

154 FIRE SERVICE LADDERS AS RESCUE TOOLS

1 Unit

Lecture: 1 hour

Safe and effective use of fire service ladders in rescue applications, review of the uses and limitations of the ladder as a bridge, shore, derrick, slide, A-frame and jib.

Offered for Credit/No Credit only.

155 EMERGENCY SHORING **TECHNIQUES**

.5 Unit

1 Unit

Lecture: .5 hour

Safe and effective use of improvised building materials to shore unstable environments. Review of the uses and applications of emergency shoring relative to structural collapse, debris, tunneling and heavy objects.

Offered for Credit/No Credit only.

156 EMERGENCY TRENCH SHORING

Lecture: I hour

Pre-planning, size-up and management of the trench rescue. Hands-on experience in emergency shoring techniques. (The course meets or exceeds current CAL-OSHA and California State Fire Training requirements in trench rescue procedures.)

Offered for Credit/No Credit only.

158 HEAVY RESCUE TRAINING 1.5 Units FOR THE FIRE SERVICE

Prerequisite: Search and Rescue 130 recommended Lecture: 1 hour

Laboratory: 1.5 hours

Training in safe rescue techniques relating to disasters associated with building collapse, mass transportation, caves and mines, including organization, procedures, and resources. Offered for Credit/No Credit only.

159 HEAVY RESCUE 3 Units INSTRUCTOR TRAINING

Prerequisite: Search and Rescue 158 or consent of instructor Lecture: 3 hours

Review and update of heavy duty rescue skills and techniques designed to prepare qualified personnel to teach those skills and techniques to others. Offered for Credit/No Credit only.

170 SPECIAL TOPICS IN RESCUE .5-3 Units FOR THE FIRE SERVICE

Prerequisite: Will vary with topic Lecture: .5-3 hours and/or Laboratory: 1.5-3 hours

Various topics in rescue will be covered to meet the individual firefighter or fire department needs. Emphasis on specialized development of skills and knowledge, area planning for rescue, development and implementation of training and rescue evolu-

Offered for Credit/No Credit only.

SKILLS DEVELOPMENT

50a WRITTEN LANGUAGE DEVELOPMENT

Prerequisite: Verified learning disability Lecture: 3 hours

Designed for students with learning disabilities who have difficulty succeeding in a traditional classroom. Presents a precise, systematic approach to learning basic communication skills including instruction in phonics, vocabulary building, English speech patterns, reading and writing. The emphasis will be on the development of compensatory strategies for particular skills

50b WRITTEN LANGUAGE DEVELOPMENT

3 Units

1 Unit

3 Units

Prerequisite: Verified learning disability and satisfactory completion of Skills Development 50a

Lecture: 3 hours

Continuation of Skills Development 50a with particular emphasis on reading comprehension and paragraph writing.

51 DIAGNOSTIC LEARNING LABORATORY

Prerequisite: Verified learning disability Laboratory: 3 hours

Individualized assistance in analyzing study problems and selecting and applying suitable learning strategies necessary for academic success in college courses.

Offered for Credit/No Credit only.

55 G.E.D. PREPARATION

1-2 Units

Lecture: .5-1.5 hours Laboratory: 1.5 hours

Designed to teach the general skills needed to pass the General Educational Development test.

May be repeated two times. Offered for Credit/No Credit only.

BASIC ARITHMETIC

1-2 Units

Laboratory: 3-6 hours Individualized instruction in fundamental operations. Students may start anywhere from whole numbers to formulas.

May be repeated three times.

62 REVIEW ALGEBRA

1 Unit

Prerequisite: High school algebra Laboratory: 3 hours

Individualized instruction in review of high school algebra.

75 COLLEGE SPELLING

1-2 Units

Laboratory: 3-6 hours Designed to help students improve their spelling skills.

May be repeated one time.

READING DEVELOPMENT Laboratory: 3-6 hours

1-2 Units

Individualized instruction and self-instructional materials in specific reading skills units.

May be repeated three times.

VOCABULARY DEVELOPMENT 1 Unit

Laboratory: 3 hours

Designed to help readers improve their vocabulary skills.

May be repeated one time.

SPEED READING 1-2 Units

Laboratory: 3-6 hours

Designed to help competent readers improve their reading rate.

May be repeated one time.

STUDY SKILLS

1-2 Units

Laboratory: 3-6 hours

Improvement of the basic study skills. May be repeated two times.

APPLIED TEST-TAKING SKILLS .5-1 Unit

Lecture: .5-1 hour

Basics of successful test-taking, with emphasis on the skills necessary to improve performance on a specific exam such as SAT, CBEST, or Civil Service.

May be repeated two times. Offered for Credit/No Credit only.

PEER TUTORING

.5-2 Units

Lecture: .5 equals .5 unit

Laboratory: 1.5-6 hours equal .5-2 units

Provides students with an opporunity to give academic assistance to other students.

Required for any student interested in tutoring for the college. Offered for Credit/No Credit only.

SOCIAL SCIENCE

140 HUMAN SEXUAL BEHAVIOR

3 Units

Lecture: 3 hours

Exploration of issues in human sexuality from the perspective of the behavioral and social sciences. Study and discussion of sexual behavior, feelings and attitudes as they affect one's self and others.

SOCIOLOGY

See Page 35 for Human Services Certificate Requirements

101 INTRODUCTION TO SOCIOLOGY 3 Units

Lecture: 3 hours

Introduction to the principal concepts and methods of sociology; survey of interactions, interrelationships and processes of society such as culture, socialization, stratification, minorities, primary and secondary groups, social change.

102 AMERICAN SOCIAL PATTERNS

Lecture: 3 hours

The study of social organization focusing on the major components, such as family, religion, education, economics, politics, technology, science and sport; group networks and formal organizations; social change.

110 DEVIANCE AND CONFLICT

3 Units

3 Units

Lecture: 3 hours The analysis of deviant behavior and social disorganization theories and trends in selected topics such as stigma, sexual deviance, aging, death, suicide, mental illness, drugs, medical care, population problems, street crime, family disorganization, white collar, organized and industrial crime.

Field trips may be required.

112 FAMILY, MARRIAGE AND THE INDIVIDUAL Lecture: 3 hours

3 Units

Comparative and historical treatment of the family institution. Analysis of kinship and family structure, roles and relationships within the family. Assessment of the contemporary society on the American family.

128 DEATH AND DYING

3 Units

Lecture: 3 hours

Examination of the predominant attitudes and practices in regard to death, dying, and grief in the U.S.; included will be material relevant to suicide, the terminally ill, bereavement, and various viewpoints about the phenomenon of death. Field trips may be required.

179 WORK EXPERIENCE IN **HUMAN SERVICES**

1-4 Units

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employemnt equals 1 unit of credit 60 hours unpaid employment equals I unit of credit

Provides students an opportunity to experience supervised employment in Human Services. The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

SPEECH

101 FUNDAMENTALS OF SPEECH

3 Units

Prerequisite: Eligibility for English 101a recommended. Lecture: 3 hours

Principles of oral communication; speech composition and techniques of presenting informal and formal speeches. Emphasis given to organization, ideas, critical thinking, and evaluative listening.

135 INTERPERSONAL COMMUNICATION

3 Units

Lecture: 3 hours

Understanding and utilizing techniques of communication in an effective manner for better interaction between people in one-to-one and small group situations.

150a SIGN LANGUAGE

2 Units

Lecture: 2 hours

Developing receptive and expressive skills in sign language, including skills in finger spelling. Receptive skills emphasized. The sign language system emphasized is American Sign Language.

150b SIGN LANGUAGE

2 Units

Prerequisite: Speech 150a or consent of instructor Lecture: 2 hours

Developing advanced level receptive and expressive skills in conversational sign language and finger spelling.

May be repeated one time.

TEACHER AIDE TRAINING

See Page 37 for Certificate Requirements

55a TEACHER AIDE TRAINING:

3 Units

Beginning

Lecture: 3 hours Preparation for teacher aide duties that assist teachers in the classroom learning process with emphasis on the school environment as the place for learning.

55b TEACHER AIDE TRAINING:

3 Units

Advanced

Prerequisite: Teacher Aide Training 55a with a grade of "C" or better or consent of instructor.

Lecture: 2.5 hours

Laboratory: 1.5 hours The classroom environment focused on the personalities in the classroom: teachers, students, teacher aides, and interpersonal relationships. Students will be required to spend a minimum of 27 hours observing and assisting a certified teacher in a local elementary school.

2 Units READING FUNDAMENTALS FOR TEACHER AIDES

Prerequisite: Concurrent enrollment in Teacher Aide Training 55a or consent of instructor.

Lecture: 2 hours

Principles of teaching reading and the role of a teacher's aide. Includes approaches to reading; development of reading lessons; word analysis, including phonics; use of manipulative aids; and individualized skill development. Some field trips to local elementary schools in lieu of regular class meetings will be required.

179 WORK EXPERIENCE AS A TEACHER AIDE

1-4 Units

Prerequisite: Employment must be approved by Work Experience Coordinator. Must be enrolled in at least seven units including Work Experience. During Summer Session must be enrolled in at least one other course.

75 hours paid employment equals 1 unit of credit.

60 hours unpaid employment equals 1 unit of credit.

Provides students an opportunity to experience supervised employment in Teacher Aide Training The student's employment must be related to educational or occupational goal.

Offered for Credit/No Credit only.

May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.

WELDING TECHNOLOGY

101 INTRODUCTION TO WELDING

3 Units

Lecture: 1 hour Laboratory: 6 hours

Basic arc and oxygen-acetylene welding as it applies to shop and field techniques.

103 ADVANCED ARC WELDING TECHNIQUES

3 Units

Prerequisite: Welding Technology 101 with a grade of "C" or better or consent of instructor

Lecture: 1 hour Laboratory: 6 hours

Arc welding in all positions (flat, horizontal and overhead). Special emphasis on control of heat and distortion.

160 PRACTICAL LABORATORY

1 Unit

Prerequisite: Welding Technology 103 with a grade of "C" or better or consent of instructor

Laboratory: 3 hours

The student shall gain practical experience by working on an individual project (including certification projects). Emphasis on quality, appearance and function. May be repeated one time.

172 METAL SCULPTURE

1.5-3 Units

Studio: 3-6 hours

Introduction to various metal-working techniques with an emphasis on aesthetic design.

(Credit for this course will be awarded for either Welding 172 or Art 172, but not both.) May be repeated three times.



WORK EXPERIENCE

Columbia College offers Work Experience courses to provide students an opportunity to experience supervised employment in a variety of occupational settings. The student's employment must be related to previous or concurrent course work and must be approved by the Work Experience Coordinator. The student must be enrolled in at least seven units including Work Experience. During Summer Session the student must be enrolled in at least one other course.

Work Experience is offered for Credit/No Credit only. Seventy-five hours of paid employment equals one unit of credit and 60 hours of unpaid employment equals one unit of credit.

Work Experience is offered in the following areas:

Automotive Technology 179 Business Administration 179

Automotive Technology Business and Commerce (Includes Business Administration, Computer Science and Disciplines not otherwise listed.)

Child Development 179 Emergency Medical Services 179

Fire Technology 179 Health Occupations 179 Hospitality Management 179

Nat. Resources Technology 179 Office Occupations 179 Sociology 179 Teacher Aide 179

Child Develpment Emergency Medical Services Fire Technology

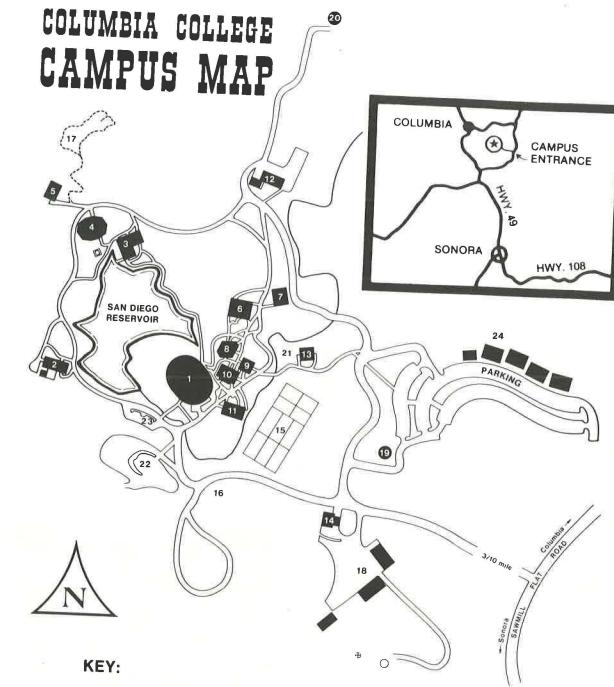
Health Occupations Hospitality Management Forestry, Natural Resources

Office Occupations Human Services Teacher Aide



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- 1 Administrative Services & Learning Resources Center, Rms. 22-110**
- 2 Creative Arts Center, Rms. 200-201*
- 3 Physical Science Center, Rms. 300-302*
- 4 Biological Science Center, Rms. 350-364** 5 Forestry and Natural Resources Center, Rms, 310-313
- 6 Interdisciplinary Center, Rms. 400-405**
- 7 Health Occupations Center, Rms. 500-501* College Nurse
- 8 Forum, Rm. 600
- 9 Seminar Building, Rms. 610-611
- 10 General Education, Rms. 620-622
- 11 Business Education Center, Rms. 700-702*
- 12 Auto Technology/Welding, Rms. 800-802*

- 13 Physical Education Center, Rm. 900 *
- 14 Fire Science Center, Rms. 1000-1001*
- 15 Tennis Courts
- 16 Judge Ross Carkeet Community Park
- 17 Nature Trail
- 18 Warehouse, Shipping, Receiving, Transportation, and Maintenance
- 19 Mi-Wok Cultural Center
- 20 Astronomy Dome
- 21 Fitness Jogging Trail
- 22 Staff Parking
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