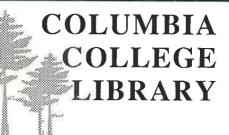
# **COLUMBIA COLLEGE**

1987-88 TALOG



Columbia, CA 95310

#### 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

COLUMBIA CHRISTIAN COLLEGE 200 N.E. 91st Avenue. Portland, Oregon 97220

COLUMBIA COLLEGE (private/liberal arts) Columbia, South Carolina 29203 (803) 786-3871

COLUMBIA COLLEGE Tenth & Rodgers Streets Columbia, Missouri 65216

COLUMBIA COLLEGE - HOLLYWOOD 925 North La Brea Ave. Los Angeles, CA 90038

COLUMBIA STATE COMMUNITY COLLEGE (2 yr. state college) Hampshire Pike, Box 1315 Columbia, Tennessee 38401 (615) 388-0120

COLUMBIA UNIVERSITY 116th Street and Broadway New York, New York 10027 (212) 280-1754

Columbia Pacific University 1415 Third St. . San Rafael, CA 94901

The College Handbook, 1984-85

COLUMBIA COLLEGE(S)

(private/coed)

(503) 255-7060

(private)

(314) 875-7352

(private/broadcast & motion pic

(213) 851-0550

(private/extensive degrees)

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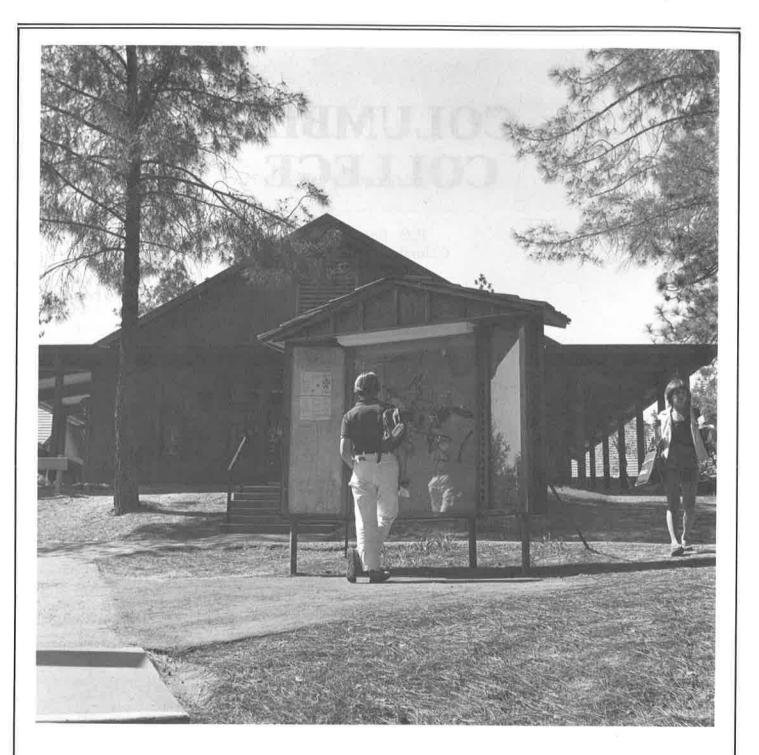
P.O. Box 1849 Columbia, California 95310 (209) 533-5100

# 1987-88



## **YOSEMITE COMMUNITY** COLLEGE DISTRICT

**PRICE \$2.00** 



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May 5	Beginning advisement an registration for continuin
	students for Fall Semeste
	students for Fall Semeste
July I	Applications for admissio
	and transcripts for day
	students should be on file
July 30	Beginning advisement an
	registration for Fall
	Semester for former
	students
July 31	Beginning advisement an
	registration for Fall
	Semester for new student
August 17	Instruction begins
August 28	Last day to enter a class
September 7	
September 25	
September 10 million	CR/NC or letter grade
October 2	
0000012	graduation or certificate
	for Fall Semester
November 9	
November 17	Last day to withdraw fro
1 06 05	course without penalty
November 26-27	Thanksgiving Holiday
December 15-18	
December 18	
December 19-January 5	Winter Recess
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	MESTER, 1988
	Beginning advisement an
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#### SUMMER SESSION, 1988

June 6	. Instruction begins
July 4	. Independence Day Holiday
July 15	.Six Week Summer
	Session Ends

Additional information pertaining to advisement, registration, final examinations, as well as other dates will be listed in the Schedule of Classes.

# 1987

# 1988

## JANUARY

JULY 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

## AUGUST

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31					
	10 17	10 11 17 18 24 25	10 11 12 17 18 19 24 25 26	10 11 12 13 17 18 19 20 24 25 26 27	3 4 5 6 7 10 11 12 13 14 17 18 19 20 21 24 25 26 27 28 31

#### SEPTEMBER

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13	14	15	16	17	18	19
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27	28	29	30			

## OCTOBER

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

#### NOVEMBER

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29	30					

#### DECEMBER

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10	11	12	13	14	15	16
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24	25	26	27	28	29	30
31						

## FEBRUARY

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 4

#### MARCH

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#### APRIL

# MAY

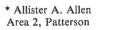
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#### JUNE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

#### **BOARD OF TRUSTEES YOSEMITE COMMUNITY COLLEGE DISTRICT**







\*† Ian Hardie Area 3, Modesto

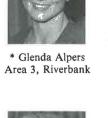


\* Carmen Jackson Area 3, Turlock

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



\* Robert Cardoza Area 3, Modesto



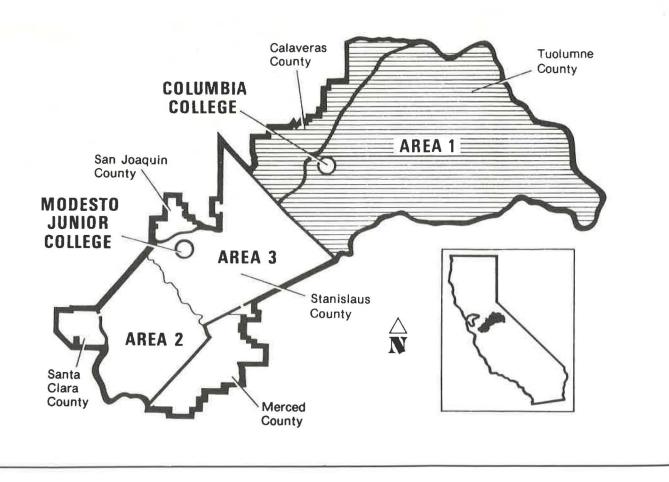


\* Nancy Rosasco Area 1, Sonora

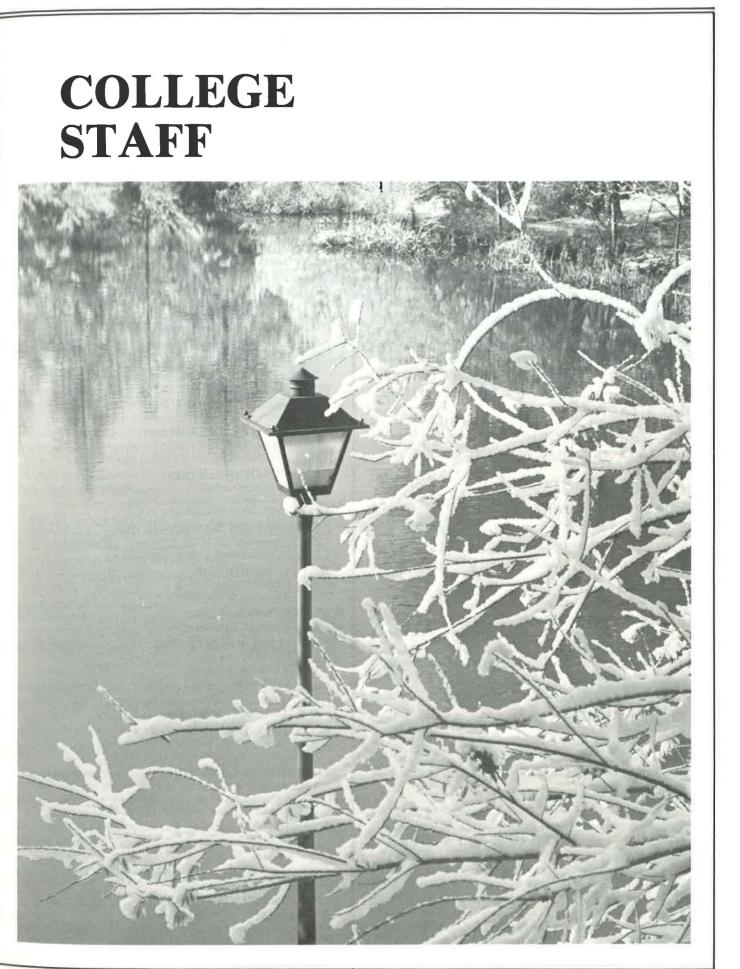


Dr. Tom Van Groningen Chancellor, Secretary to Board of Trustees

\* Past President † Charter Board Member



# **STAFF**



4

#### **CERTIFICATED STAFF** (Date of District appointment follows name.) **DENNIS LEE ALBERS (1985)** Mathematics/Physics B.S., University of Nebraska M.S., University of Nebraska Ph.D., University of Nebraska **DENNIS P. AYE (1985) Physical Education**, B.A., St. Ambrose College **Basketball Coach** M.A., University of Connecticut **JOEL C. BARBER** (1967) Art B.A., Willamette University M.A., University of Oregon **JOSHUA E. BIGELOW** (1981) **Physical Education** A.A., Columbia College A.B., University of California, Berkeley M.A., University of California, Berkeley ELSIE M. BRUNO (1980) Counselor B.S., University of California, Los Angeles M.S., California State University, Los Angeles DALE L. BUNSE (1975) Art B.A., Willamette University M.F.A., Arizona State University ROSS A. CARKEET, JR. (1968) Natural Resources A.A., Modesto Junior College B.S., University of California, Berkeley M.S., California State University, Humboldt JOHN R. CARTER (1984) Music 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 EDWARD C. DOELL JR. (1973) English. A.A., Foothill Junior College Photography B.A., California State University, San Francisco M.A., California State University, San Francisco RICHARD L. DYER (1969) History, Political Science A.A., Mount San Antonio College B.A., LaVerne College M.A., California State University, Los Angeles RONALD L. ERICKSON (1981) Coordinator of Hospitality Management **ROBERT H. GIBSON (1970)** Physical Education, A.A., Graceland College Coordinator of B.A., Central College Adult Fitness Program 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 JON M. HAGSTROM (1962) English A.A., Shasta College B.A., California State University, Chico M.A., University of the Pacific PATRICIA HARRELSON (1982) Learning Disabilities B.S., California State College, Stanislaus Specialist ROD D. HARRIS (1979) Music A.A., Fort Steilacoom Community College B.A.E., Pacific Lutheran University M.M., Pacific Lutheran University TERRY J. HOFF (1974) **Physical Education** B.A., University of California, Berkeley (Sabbatical Leave

1987-88)

JAMES R. HASTINGS (1973) Anthr	ropology, Psychology
A.A., American River College B.A., California State University, Sacramento M.A., California State University, Sacramento	0
JOHN L. HOLLOWAY (1981) A.A., Orange Coast Junior College B.A., California State University, San Franci M.B.A., California State University, San Fra	Business
<b>TOM G. HOLST (1974)</b> A.B., Augustana College M.N.S., University of South Dakota Ed.D., University of Northern Colorado	Earth Science, Computer Science
FLOYD L. HOPPER (1976) B.A., University of Nevada M.A., California State University, Long Beau	<i>Counselor</i> ch
NANCY T. HORNBERGER (1974) B.A., University of Rochester M.A., University of the Pacific	Sociology
	ttor of Learning Skills
<b>DOUGLAS E. KOTAREK (1974)</b> B.S., Northern Illinois University M.B.A., Northern Illinois University	Business, Economics
WALTER L. LEINEKE (1968) B.A., California State University, Sacramento M.A., California State University, San Franc	
<b>RAYMOND D. LIEDLICH (1981)</b> B.S., Bowling Green State University M.A., California State University, Los Ange	Dean of Instruction
the second	Director of EOPS and led Student Programs
JAMES ROBERT MENDONSA (1981)	Assistant Dean, Vocational Education
JOHN C. MINOR (1970) B.A., Linfield College M.A., University of Washington	English
JOHN R. NELSON (1984) B.A., San Diego State University	Fire Technology
CHESTER H. PALMER (1976) B.A., University of Arizona M.A., University of Arizona	English, Speech
FRED J. PETERSEN (1981) B.A., California State University, San Jose M.A., University of Washington	Computer Science
<b>DAVID G. PURDY</b> (1971) B.A., California State University, San Jose M.A., California State University, Fresno	Drama
<b>BLAINE D. ROGERS (1972)</b> A.A., Bakersfield College B.A., California State University, Humboldt M.A., California State University, Humbold	
JOHN R. ROSS (1970) B.A., University of the Pacific	Health Education, Health Occupations, Search and Rescue
MELBORN N. SIMMONS (1969) B.S.E., Henderson State College M.S., University of Arkansas	Mathematics
<b>RAYMOND L. STEUBEN</b> (1976) B.A., University of California, Santa Barbara M.L.S., University of California, Los Angeles	

V. PETER SULLIVAN (1961) A.A., Modesto Junior College	Physical Education
B.A., Pepperdine University M.A., California State University, Sacrament	0
<b>JANET M. SWEENEY (1984)</b> B.A., San Jose State University M.A., California State College Stanislaus	Business
CANDACE L. WILLIAMSON (1979) B.A., California State University, Humboldt M.A., California State University, Humboldt	Business
<b>DAVID I. WILLSON (1975)</b> Auto B.S., California Polytechnic State University, M.A., California Polytechnic State University	omotive Technology, San Luis Obispo , San Luis Obispo
WILLIAM H. WILSON, JR. (1974) A.A., Solano College B.A., San Jose State College M.S., California State University, Hayward	Counselor
<b>CLARENCE O. WOLGAMOTT, JR.</b> B.S., Tennessee Technological University M.A., Tennessee Technological University	(1971) Chemistry
FACULTY EMERITI	[
PAUL K. BECKER (1971) Dea A.B., Western State College of Colorado M.A., Stanford University	n of Student Services (1971-1987)
L. FRANCES CULLEN (1971) Ps	ychology, Counselor,
B.S., University of California, Los Angeles M.S., University of Southern California Ed.D., University of Southern California	Student Activities (1971-1983)
MARION C. EVANS (1955) R.N., St. Therese School of Nursing B.V.E., California State University, Sacrame	Health Occupations (1968-1983) nto
McKINLEY FROST (1970) A.A., Columbia College	Welding Technology (1970-1985)
	ory, Political Science,
A.B., University of California, Berkeley Th.M., Dallas Theological Seminary M.A., University of California, Berkeley	Humanities Philosophy (1968-1985)
FRANCES V. HEGWEIN (1974) R.N., South Shore Hospital	Health Occupations (1974-1985)
<b>THELMA A. JENSEN (1968)</b> R.N., Highland School of Nursing A.A., Columbia College	Health Occupations (1968-1984)
DONALD A. JONES (1968)	<b>Biological Science</b>
A.A., San Francisco City College A.B., California State University, San Franc M.A., California State University, San Franc	(1968-1985) isco cisco
MATILD M. KAMBER (1976) B.A., American College for Girls, Istanbul, T M.A., University of Istanbul	Philosophy urkey (1976-1982)
<b>JERRY D. LYON (1971)</b>	Business
A.A., Edinburg Junior College B.B.A., University of Texas M.A., Abilene Christian College	(1971-1984)
BARBARA C. PAINTER (1969)	Counselor
A.A., Modesto Junior College A.B., California State University, San Jose M.A., University of the Pacific Ed.D., University of the Pacific	(1969-1980)
HARVEY B. RHODES (1947) A.B., California State University, San Jose M.S., University of Southern California Ed.D., University of California, Berkeley	Presiden (1967-1979)
RICHARD H. ROGERS (1968)	Busines

A.B., California State University, Fresno

M.A., California State University, Fresno

M.A., Mills College

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Business (1968-1982)

## **CLASSIFIED STAFF**

(Date of District appointment follows name.)

KATHLEEN L. ABBOTT (1976) **ROSS L. ALDRICH (1975)** 

SIGRID A, ANDERSEN (1985)

**MERLIN BART (1974)** 

**DORYENE M. BENTLEY (1975)** 

**PATRICIA BERHANE (1986)** 

**ARTHUR BUSALACCHI (1982)** 

**D. LARUE BUSALACCHI (1969)** 

CLARENCE E. CLARK (1971) PATRICIA COGGINS (1984)

JOY D. COTTON (1985)

L. C. CRAIN (1976) DOROTHY A. DANZ (1965)

**DENISE F. DEATSCH** (1978)

**TERRILL O. DEATSCH (1975)** 

**DANIEL DEVITT (1984)** 

SALLY K. DIETSCHAK (1981)

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

**DORIS I. GOLDSON (1970)** 

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

**RUTH O. HAGSTROM (1970)** DOLORES C. HALL (1971) NORINE D. HOLMES (1978)

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

WENDY LINK (1984)

**KENNETH R. LUCAS (1967)** 

DOROTHY A. MAECHLER (1981)

**TIMOTHY MANN (1983)** 

**ARDIS MARTINEZ (1984)** 

Clerk, Business Services Performing Arts Production Technician

Instructional Aide, Learning Skills Instructional Aide. Auto Technology

Secretary. Instructional Materials Center

Clerk, Admissions and Records

Lead Safety Patrolperson **Business** Office and Budget Manager

Maintenance Instructional Aide,

Learning Disabilities Center Clerk,

Admissions and Records Custodian

Secretary, Dean of Student Services

Secretary, Assistant Dean of Instruction Bus Driver/ Groundskeeper

Supervisor, Food Services

Assistant, Financial Aids and Veterans' Affairs Custodian

Equipment Mechanic Instructional Aide, Business

Secretary/ Media Assistant, Library Media Assistant, Library Instructional Aide, Mathematics

College Nurse Manager, Bookstore **Evaluation Technician** Admissions and Records

Skilled Maintenance Worker Custodian

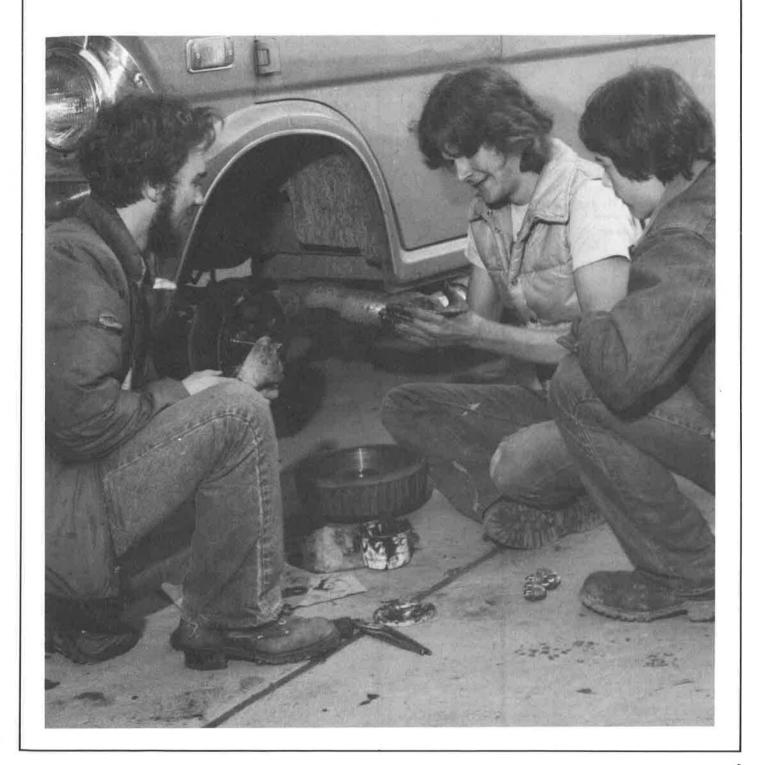
Public Information Writer Instructional Aide, Computer Science, Earth Science, Psychology

Media Assistant, Library A.V. Supervisor. Transportation/Grounds Accompanist/ Instructional Aide, Music Athletic Equipment Attendant Typist Clerk, Student Services

ANDREW B. MAURER (1974)			
I	Graphic Artist, nstructional Materials Center	KATHLEEN SMITH (1984)	Clerk, Admission and Record
JOHN H. MILLER (1972)	Supervisor, Buildings and Maintenance	BARBARA SMITH (1986)	Food Service Worke
NANCY M. MYERS (1982)	Media Assistant, Library	JILL L. SOUTHARD (1982)	Instructional Aide Physical Education
SANDAE D. OVERHOLTZER	Learning Skills	PATRICIA C. THOMAS (1972)	Account Clerk Business Service
PATRICIA PANTALEONI (198		WILLIAM R. THORPE (1985)	Electronic Technician
LUIS C. RAMIREZ (1970)	Assistant Dean of Instruction Supervising Custodian	CAROL A. VAUGHN (1974)	Typist Clerk actional Materials Center
	Printing Technician structional Materials Center	BERNICE A. WADDELOW (1970)	Secretary Dean of Instruction
JACQUELINE J. SEYBOLT (19	Food Services	CHRISTINE M. WALKER (1978)	Instructional Aide Learning Skill
WILLIAM M. SHANKEY (1982)	Safety Patrolperson	ADELE WIKNER (1985)	Media Assistant Library
		JAMES B. WOOD, SR. (1977)	Custodiar



# 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**

MIKE BREWER, Service Manager Kelley Motors **BOB ELLIOTT**, Owner Elliott's Auto & Truck Service TOM HAIDLEN, Owner Haidlen Ford-Mercury STEVE KOEHLER, Auto Tech. Instructor Bret Harte High School PAUL MORGAN, Owner Paul Morgan Brakes BILL MOSS, Owner Bill's Auto Repair STANLEY SMITH, Auto. Tech, Instructor Sonora Union High School ED SUNDAY, Owner Sun Automotive

#### 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 MELODY PERRY, Administrative Assistant Sonora Medical Group MARILYN RICHARDS, Secretary California Dept. of Forestry **KEN ROY**, Manager Longs Drugs PATRICIA SAKASITZ, Office Manager Foothill Medical Group BILL STEVENS, Personnel Officer Stanislaus National Forest **MARSHA THORLAKSON-DORMAN** Employment Program Representative Employment Development Dept. 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. **ROBERT CRAVEIRO**, M.D.

TED FERNISH. M.D. RUSSELL HOENES, M.D. JAMES HONGOLA, M.D. **DIXIE HUKARI**, Head Program Nurse Sonora Community Hospital GARY JOHNSON, M.D. LAWRENCE LONG, Hospital Administrator Tuolumne General Hospital DEE MINNEY, Associate Program Nurse Tuolumne General Hospital JAMES MOSSON, M.D. TERRIL SPITZE, M.D. CHARLES WALDMAN, M.D. RICHARD MUNGER, M.D.

#### **COMMUNITY EDUCATION**

GALEN ALBERTSON **CONSUELO CLINTON MARJORIE DOE** LORRAINE KILLOUGH HAL KYLE PHYLLIS KYLE

**CARROLL LANG** MARY LAVERONI ESTHER RASMUSSEN DONALD SMILEY LOIS ANN SMITH

#### **COMPUTER SCIENCE**

**BOB BECK**, Accountant BINKY DOHMS, Office Coordinator Heron Manufacturing PETER DOHMS, Vice President Condor Mining **ROGER ELSWORTH**, Programming Analyst County of Tuolumne **DWAYNE McDONALD**, Assistant Superintendent **Tuolumne County Schools** SHERRI TUCKER, Data Processing Manager The Paul Ranpack Co. JIM WAGONER, Data Processing/Instructor Mother Lode Data Service SHARI WATER, Data Entry Clerk County of Tuolumne JERRY YOUNGSTROM, President Seasoft Corporation

#### **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 & Associates GEORGE JACKSON, Engineer Calaveras Asbestos Ltd. MICHAEL PEREZ, Engineering Technician U.S. Forest Service IERRY SLINKARD, Vice President Raymond Vail & Associates

#### **EMERGENCY MEDICAL SERVICES**

SANDI CARLIN, Registered Nurse/M.I.C.N. Tuolumne General Hospital JEANNE MILLS, Registered Nurse/Emergency

Medical services coordinator/M.I.C.N., Tuolumne County Health Department WILLIAM STIERS, M.D., Head Emergency Rm. Physician

Sonora Community Hospital VALERIE WHEELER, Registered Nurse/M.I.C.N.

Sonora Community Hospital

CHARLOTTE STEER, Emergency Medical Systems Coordinator for Calaveras County Public Health Agency

#### EXTENDED OPPORTUNITY **PROGRAMS AND SERVICES**

PATRICIA BERHANE. Admissions and Records Clerk Columbia College ELSIE BRUNO, Counselor Columbia College WALLACE DAY, Tuolumne/MiWuk Tribal Council Chairman SALLY DIETSCHAK, Financial Aid Columbia College JACKIE JACKMAN, Teacher

Vallecito High School SHIRLEY PHILSON, Employment Services Employment Development Department **VIOLA WESSELL.** Community Representative

#### **FIRE TECHNOLOGY**

MERRITT LOVEJOY, Forest Dispatcher/E.C.C. Chief U.S. Forest Service GUY C. MILLS, Fire Chief Sonora Fire Department DONALD NEWMAN, Battalion Chief California Division of Forestry JAMES ROSBROOK, Fire Chief Ebbetts Pass Fire Department LEONARD SHEPHERD, Training Officer California Division of Forestry DON STOWELL, Training Officer California Division of Forestry



Photo by Dirk Travis

#### FORESTRY TECHNOLOGY/NATURAL **RESOURCES TECHNOLOGY**

MARK BEVAN, Forestry Consultant CHRIS CONRAD, Forester Louisiana Pacific Corporation ANNE DELANEY, Forester American Forest Products Co. **DONNA FOREST**, Assistant Recreation Officer Summit Ranger District

JIM MADDOX. Wildlife Biologist California Department of Fish & Game TIM NEELEY, Chief Ranger Columbia & Railtown State Historic Parks JIM OWEN, Unit Ranger California Department of Forestry RICHARD PLAND, Forester/Logging Superintendent Louisiana Pacific Corporation **BRIAN OUELVOG**, Fishery Biologist California Department of Fish & Game WILLIAM SUEHOWICZ, Chief Park Ranger New Melones Lake **DON WARD**, Forester California Department of Forestry STEVE WATERMAN, Public Information Officer U.S. Forest Service

#### **HOSPITALITY MANAGEMENT**

LEO BALDONADO, Owner La Sierra Taqueria KARL HAMMER, Sales Representative Major Hoskings Co. TOM MANTI. Owner Cameo Restaurant, Arnold TIM NEELEY. Chief Ranger Columbia Railtown Historic State Parks **GLORIA STORMENT**, General Manager Sonora Oaks

#### **MEDICAL PROFESSIONS**

JUDY BOWEN, Registered Nurse Lynn Austin, M.D. CLARK BURTON, D.D.S. MARTHA COSTICK, Registered Nurse Pioneer-West Point Community Health Center MIKE GHIORSO, Chief Pharmacist Sonora Community Hospital GARY HINMANN, Pharmacist Altaville Drugs DIXIE HUKARI, Inservice Director Sonora Community Hospital **GLENNA JOHNSON**, Director of Nursing Mark Twain Hospital LAWRENCE LONG, Administrator Tuolumne General Hospital **PHYLLIS MANFORD**, Inservice Director Tuolumne General Hospital MARILYN NISHI, Registered Physical Therapist Self-Help Therapy Programs MAURICE ROLLINS, D.D.S. LARRY WARNICK, Physical Therapist Tuolumne General Hospital RICHARD WING, Chief Administrator

Mark Twain Hospital

#### **PRESIDENT'S**

JACK AMUNDSEN, Retired State Forest Ranger DR. ROBERT BACH, Superintendent Bret Harte Union High School District **DICK BARGER**, Businessman

SHARI CASSARO, Realtor MARJORIE COFFILL, Community Leader

**BLAINE CORNELL**, Supervisor U.S. Forest Service CARLO DeFERRARI, Retired

County Clerk and Auditor, Historian JACK EDDY, Businessman

MARJORIE GEISZLER, Superintendent Calaveras County Schools

MARILYN HAMILTON, Vice President Security Pacific Bank

JIM HILDRETH, Realtor/ Sonora City Councilman

MIKE Q. JONES, General Contractor JAMES C. McCLUSKEY, Pastor

Church of the 49'ers HARVEY C. McGEE, Owner-Publisher

Daily Union Democrat DR. ORVILLE MILHOLLIN, Superintendent

**Tuolumne County Schools RICHARD ROGERS**, Retired

Columbia College Instructor MILTON SCHROEDER, Retired Manager Pacific Gas & Electric Company **IRVING J. SYMONS,** Owner Hales & Symons DR. ROGER WAHLMAN, Dentist CARY WINGO, Attorney

#### **REAL ESTATE**

KEN CARPER, Realtor/Owner Carper Realty GWYN DURANDT, Realtor/President Calaveras County Board of Realtors **BABE GIBSON**, Realtor Mother Lode Real Estate JOHN GLEASON, Realtor Wildwood Properties JIM HILDRETH, Real Estate Instructor/Owner Park Place Realty SHARON NUTT, Realtor Henrietta Realty JOANNE RIGGS, Real Estate Instructor/Branch Manager/Savings Supervisor Washington Savings and Loan CLARK SEGERSTROM, Realtor/Owner Segerstrom Real Estate

#### SEARCH AND RESCUE

MARIE BENNETT, Coordinator Northern California Law Enforcement HENRY GILLIAM, Assistant Chief/Training Division U.C. Davis Fire Dept. **BENTON HEMBREE**, Firefighter Sonora City Fire Department **RICK KREPS**, Risk Manager Dodge Ridge Corporation

MANUEL NAVARRO, Battalion Chief Oakland Fire Department

SCOTT NEWMAN, District Ranger California Division of Forestry

NINA OSTARELLO, Location Manager Mobil Life Support

JIM SCRUGGS, Deputy Sheriff/S.A.R.. Officer Tuolumne County Sheriff's Office **DON STONE** Technical Team Leader

#### **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**

#### 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 fouryear colleges.

#### **College Functions**

- **General Education Function** I. To provide a broad program of knowledge and skill acquisition in humanities, arts, and sciences for personal development.
- II. **Transfer Education Function** To provide a comprehensive program that meets the lower division requirements for acceptance at designated institutions.
- **III.** Vocational Education Function To provide specialized training programs needed to develop skills, knowledge, attitudes, and other occupational competencies.
- **Remedial Education Function** IV. To assist the student to acquire those basic competencies needed for effective participation in programs leading to his/her goal.
- **Occupational and Educational Planning Function** V. To provide an opportunity for students to attain personal goals through a program of realistic planning and direction.
- **Continuing Education Function** VI. To provide continuing educational activities for adults.

#### ADULT AND CONTINUING EDUCATION

Columbia College is committed to meeting the educational needs of adults in our community. Through the Continuing Education program a variety of credit and non-credit classes are offered which fulfill requirements leading to an A.A. or A.S. Degree, a high school diploma, or an assortment of vocational certificates. Most of these courses are offered during the evening at locations both on and off campus. Continuing Education courses are designed to provide opportunities to resume interrupted education, to investigate new fields of interest, and for general education for selfimprovement and enriched living.

#### 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.

#### **COMMUNITY SERVICES**

Community Services sponsors many programs including public lectures, forums, concerts, art exhibits, and film series; a speaker's bureau which offers speakers without charge; campus tours; short courses; community recreation; and a public information program. A citizen's committee advises the College of needs and evaluates proposals and programs.

The College is a center for community functions of various kinds. College facilities are available for use by recognized community groups when such use does not interfere with the regular educational program.

#### 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.

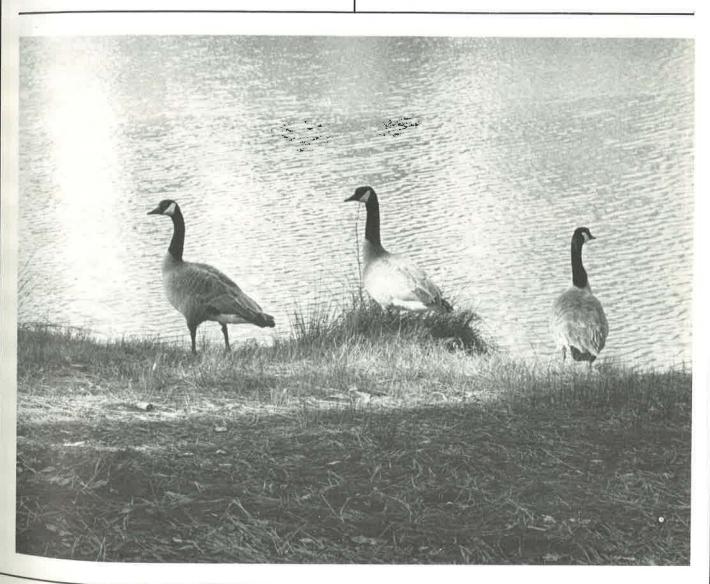
Inquiries concerning the application of the above Federal laws to programs or activities of the College may be directed to the following persons at Columbia College, P.O. Box 1849, Columbia, CA 95310:

Title IX:	Candace Williamson, Coordinator Gender Equity
Section 504:	(209) 533-5216 Paul Lockman, Director

Handicapped Students Program (209) 533-5132

#### **OPEN CLASS POLICY**

Unless specifically exempted from statute, every course, course section, or class, the average daily attendance of



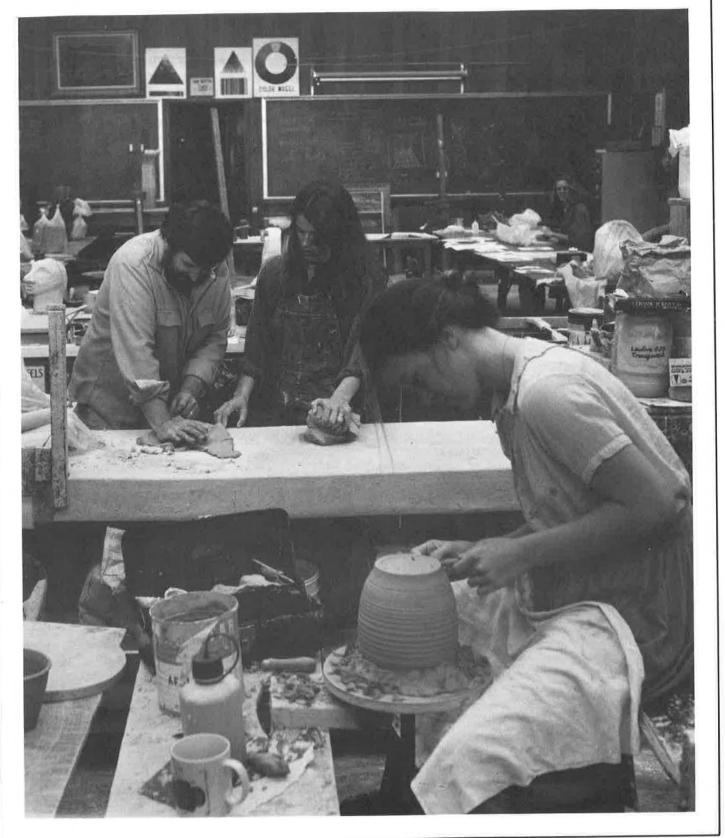
which is to be reported for state aid, is open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established.

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.

#### **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 nonresident 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.

Residency determination dates for 1987-88 are August 17, 1987, for Fall Semester; January 8, 1988, for Spring Semester.

Nonresidents of California, including international students, are required to pay an out-of-state tuition fee of \$88.00 per unit. The tuition refund policy can be found in the Schedule of Classes. Questions regarding determination of residency should be referred to the Admissions and Records Office.

#### **Interdistrict Attendance Permits**

Yosemite Community College maintains a free exchange of students with all community college districts in the State of California. Interdistrict permits are not required. For further information contact the Admissions and Records Office.

#### **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 work must be received by the College. If no transcript is available due to withdrawal, an official letter stating this fact is required. It would be in the best interest of the student to provide the College with high school transcripts.

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.

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 college since last attending Columbia College.

#### Notice of Acceptance

New and former students will be notified officially of their acceptance and advisement appointment after all application forms and documents have been received. This notice is mailed approximately four weeks prior to the first day of the semester. Early advisement is desirable to allow the student a maximum choice of classes.

#### 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 INTER-NATIONAL STUDENT SUPPLEMENTAL AP-PLICATION 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 area.

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 1-20 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.

Students other than juniors and seniors must also present written approval from their parents or legal guardian.

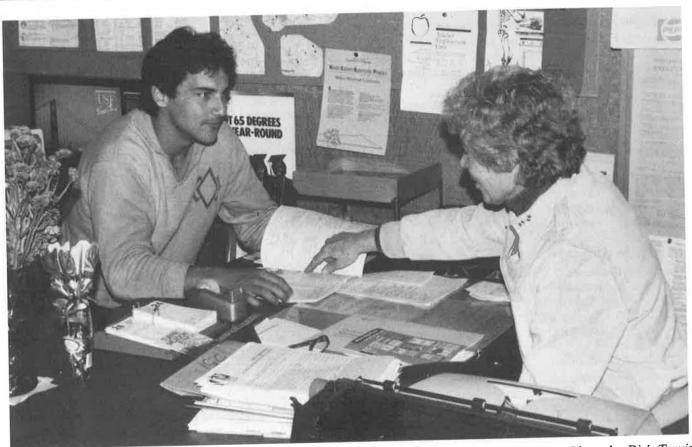
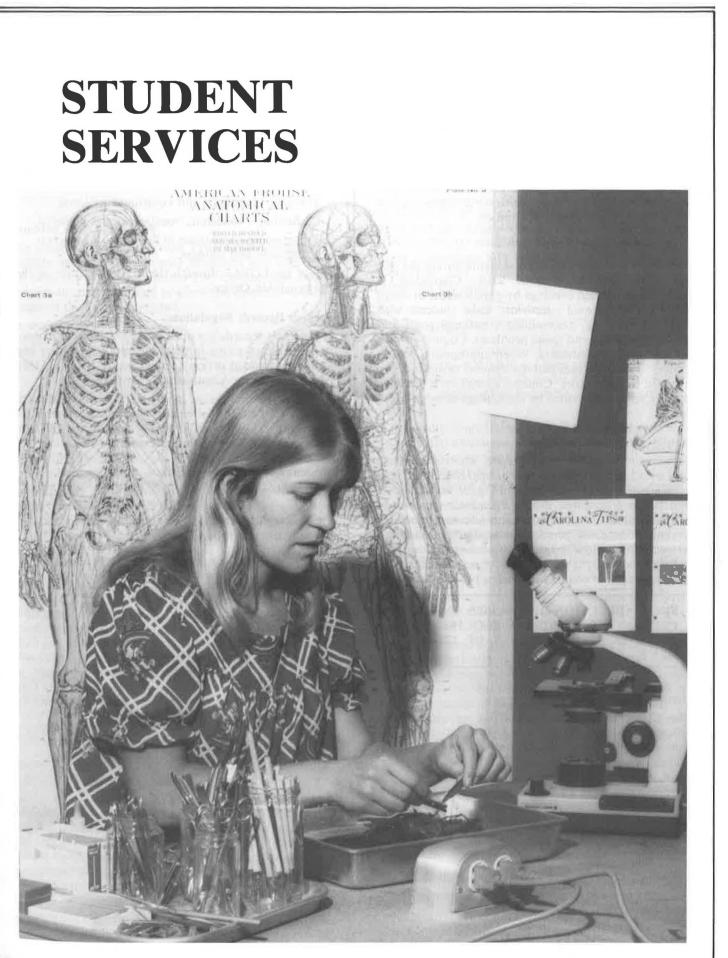


Photo by Dirk Travis



#### 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. Academic procedures are discussed and the arrangement of the student's first program of classes with the assignment of an advisor takes place at this orientation.

#### **Counseling Services**

Counselors are available to all students during the day by appointment or drop-in basis. Counseling is available on selected evenings by appointment or dropin basis. Professional counselors assist students with academic planning, determining vocational goals and resolving personal and social problems. Counselors also serve as academic advisors. 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.

#### **Faculty Advisement Program**

Advisement is an on-going service whereby students meet with faculty to discuss educational objectives, plan an academic/vocational program, gain assistance in registration procedures, evaluate academic progress or gain referral to counselors and other sources concerning personal or academic problems related to the college experience. Counselors assign advisors on the basis of the student's educational/vocational objectives. Students are encouraged to confer with their advisor at any time.

FINAL SELECTION OF CLASSES AND COM-PLETION OF PROGRAM REOUIREMENTS 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 Program, National Direct Student Loan, Cal Grant, Educational Opportunity Program and Service, California Board of Governors Grant, and California Guaranteed Student Loan.

Students who need assistance to defray college expenses may obtain applications from the Financial Aid Office. Eligibility is based on financial need and aid is distributed on a first-come, first-serve basis, contingent upon availability of funds.

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

#### **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, bookgrants, 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 Handbook. Student Handbooks are issued to each student at the time of registration.

#### Transcripts

Upon written request to the Admissions and Records Office, two transcripts will be issued without charge for each student in good standing. Additional transcripts are \$2 each. Transcripts will not be issued to students who have outstanding financial obligations to the College. To comply with the Family Educational Rights and Privacy Act of 1974, transcripts cannot be sent in response to a telephone request. Transcripts sent to Columbia College from other colleges may not be released to students, other colleges, or agencies.

#### **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 amended, are available for inspection in the Admissions and Records 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. Peer tutoring is also available for students needing extra assistance.

#### **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.

#### Scholarships and Awards Program

Columbia College has an extensive number of scholarships and awards provided by various organizations and individuals from the community and other sources. Scholarships and awards are generally based on one or more of the following considerations: grade point average; financial need; major; units completed; and/or participation in extracurricular activities including employment and/or homemaking. Awards are available for students pursuing studies in Art. Athletics. Biological Sciences, Business, Computer Science, Conservation, Education/Teaching, E.M.T., Fire Technology, Forestry, Forestry Technology, History, Hospitality Management, Human Services, Journalism, Law Enforcement/law related, Mathematics, Music, Natural Resources, Office Occupations, Physical Education, Physical Sciences, Political Science, Registered and Vocational Nursing and other medical related careers, Social Science, other vocational majors,

and Sonora or Summerville High School graduates.

Scholarships and awards are available to Columbia College students who are new, continuing, returning and/or transferring to another college or university.

When a student applies using the general scholarship application at the beginning of each semester, the application is considered for all local scholarships and awards for which the student qualifies that semester. Most awards are granted during the Spring Semester for the following academic year; others are awarded throughout the school year. The MONEYBOOK brochure, containing detailed information about the Scholarship Program is available in the Student Services Office and the Admissions and Records Office. The MONEYBOARD bulletin board, located near the Office of Admissions and Records, lists the criteria for scholarships and awards as they become available throughout the year.

#### **Veterans Affairs**

Veterans and dependents of deceased, disabled, or retired veterans wishing to use their educational benefits should apply through the Financial Aid/Veterans Office as early as possible after they have decided to enroll in college.

All applicants must file transcripts of any previous college work and an original or certified copy of DD Form 214 in order to be eligible for veteran benefits. If appropriate, a certified copy of a marriage certificate and birth certificates of dependent children may be required.

Those veterans who are eligible and wish to apply for advance payments should contact the above office at least 60 to 120 days prior to the beginning of the term. Veteran students are required to notify the Veteran Affairs Office of any changes in their program during the semester.

#### **Health Services**

A variety of health services are available to students registered at the College. Students having chronic health problems, however, are advised to inform the College Nurse so that the best possible help may be rendered in case of an emergency. Illness or accidents should be reported immediately to the College Nurse or any administrator.

#### **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 and achieve a minimum of 2.0 G.P.A. to be eligible the second year.

#### **Career Center**

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

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

#### **Student Employment**

Students seeking employment should register with the Career Center and update their availability each semester. Employers are encouraged to list job openings, full or part-time, with the Center which maintains a referral service for off-campus employment.

A limited placement service is available to students for part-time on campus and 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.

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 may be contacted through the Dean of Student Services' Office or the Campus Fire Department.

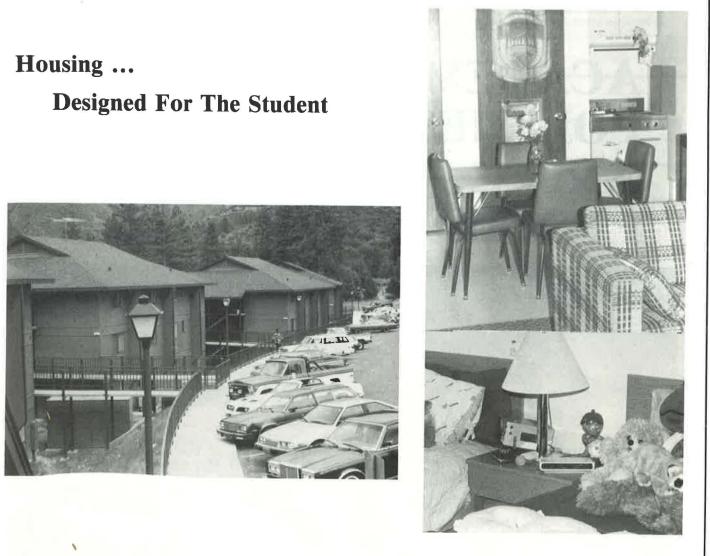
The College maintains parking areas for students, staff, disabled persons and visitors. Parking regulations are strictly enforced by Campus Security. A fee is charged for parking.

#### Student Housing

A new student housing complex is located on campus. The facility is designed as cluster apartments and is partially furnished including a kitchenette. Four students will be housed in each apartment. Additional information is available by contacting the Residence Manager, Admissions and Records Office or the Career Center.

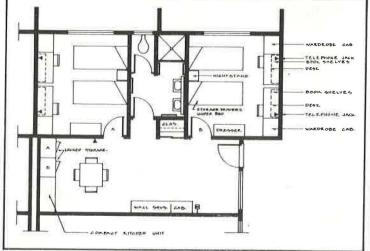


Photo by Dirk Travis



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. Typical floor plan. Student must provide sets.
- \* Coin operated washer/dryer facilities on the premises.
- ★ Utilities (except telephone) are included with the rent.



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

Outdoor volleyball, basketball and lighted tennis courts are available to residents. A picturesque jogging (PAR) course through the campus is maintained.

# ACADEMIC POLICIES AND PROCEDURES



#### **Academic Policies And Procedures**

#### 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. In some physical education, art, drama, and music courses, a unit of credit is earned for each two hours of class time. 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.

#### **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)
- NC No Credit (Less Than Satisfactory)

recom	ogress (Did not meet course objectives; imend re-enrollment in class.) ort Delayed ded Class
	le college uses the following system of grade ising the student's level of achievement:
B - 3 grad C - 2 grad D - 1 grad	de points per unit de points per unit de points per unit de point per unit le points per unit
W I CR NC IP O RD	Not included in computing grade point average.
following fo GPA = $\underline{T}$	Point Average—GPA—is determined by the
For example units of "B	e, a student who earns 5 units of "A", a ", 3 units of "C", 2 units of "D", and ' would compute his GPA as follows:
4 units B x 3 3 units C x 3	1 = 2 grade points
	grade points units attempted
The result ir Units for wh or ''IP'' ha	n this example is a GPA of 2.50. nich a grade of "W," "I," "CR," "NC," s been assigned are not counted in com Grade Point Average.
student is al five days of	course burse or adding units to a course in which a ready enrolled is permitted during the firs instruction each semester. Entrance into s six through ten requires the instructor'

five days of instruction each semester. Entrance into a class in days six through ten requires the instructor's written approval. After the tenth day, students may be admitted to certain classes with the written consent of the instructor. Refer the the Schedule of Classes for designation of those classes. Students who are not eligible for self-programming must obtain their advisor's written approval before adding a course.

#### **Dropping A Course**

A student may drop a course or reduce the number of units in a course during the first two weeks of instruction. The course or units will be removed from the student's program of attendance without a grade being recorded. From the third 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 and paid the drop fee if appropriate.

The last day to withdraw without penalty for all fulltime 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**

Courses may be repeated only to improve a grade of D, F, IP, CR, or NC except as otherwise noted in the College catalog.

When repeating a course in which a "D" grade was earned, the new grade and grade points will be recorded, but no additional units for the course will be allowed., When repeating a course in which "F," "IP," or "NC" grades were earned, the new grade, grade points, and units for the course will be recorded.

#### **Incomplete Grades**

An incomplete grade ("I") may be given for an unforeseeable emergency and justifiable reason if a student does not complete all requirements. Responsibility for removal of incomplete grades within the time granted by the instructor rests with the students. Incomplete grades must be made up within one semester or will automatically revert to the alternate grade assigned by the instructor on the Incomplete Grade Removal Contract. Any course in which a substandard grade of D, F, or NC was earned at any accredited college or university may be repeated once at Columbia College. The higher grade will be used in computation of the G.P.A., and the permanent record will be annotated in such a way that all work remains legible, ensuring a true and complete academic history.

Columbia College will honor similar course repetition policies of accredited colleges and universities, but other transfer institutions may reject course repetition action.

#### **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:

- 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.

#### 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 advisor 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

Each student may choose to take one course per semester for a grade of Credit or No Credit instead of the usual letter grades, subject to the following limitations: (1) Time of choice: Students have only the first 30 percent of the length of the term to choose Credit/No Credit evaluation, although the instructor may grant the student that option any time during the term if extenuating circumstances warrant it. (2) Limit of one per semester: Each student is limited to only one course per semester for Credit/No Credit evaluation. (3) Exceptions: Courses which are offered with only Credit/No Credit evaluation (such as Work Experience) are not subject to the above limitations, and may be taken in addition to the other course chosen for Credit/No Credit. (4) Total units: No more than 14 total units of CR (credit) grade may be counted toward graduation. CR/NC units are not computed in determining the student's grade point average, nor can they be applied toward the major required for graduation. Forms are available in the Admissions and Records Office to request this grade option.

#### **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.

#### **Student Load**

A student who desires to carry more than 18 units must secure approval from his/her advisor or the Dean of Students. Students on academic probation will be limited to a unit load recommended by their advisor.

#### **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.

#### **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 attempted 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.

#### **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 Scholarships

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 25.

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. Self-programmed students who are on probation will be assigned an advisor by a counselor.

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 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%).

#### Disgualification

A disgualified student may not be reinstated under the admissions provision until one semester from the date of disgualification. 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 advisor 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.

#### 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**

Students enrolling in six or more units must pay a \$50 semester fee. Students enrolling in less than six units may pay a \$5 per unit per semester fee. California residents who have low income or who are receiving AFDC, SSI, or GA may have their enrollment fee waived. Qualified students should contact the Admissions and Records Office or the Financial Aid Office.

The College may require students in some classes to provide certain instructional materials including, but not limited to, textbooks, tools, equipment, and clothing.

Parking permits may be purchased each semester from the Business Office. Students who do not wish to purchase a permit may pay on a per-entry basis. These fees are indicated in the class schedule for each semester.

The following cost breakdown for 9 months is used as a guide for single students: In Parents' On- Off-				<b>Enrollment Fee Refund Policy</b> A refund will be made, upon request, for any enrollment fee paid by a student in excess of that computed for pro-
	Home	Campus	Campus	gram changes completed during the first two weeks of
Books/Supplies/ Tuition Meals/Housing Personal	\$ 460 1,100 740	\$ 460 3,180 740	\$ 460 3,200 740	the class. After the second week of class no refunds will be allowed. No refunds will be processed after the third week of instruction. Students eligible for refunds must obtain a Request for Refund from the Admissions and
Transportation	600	320	600	Records Office.
	\$2,900	\$4,700	\$5,000	Parking Fee Refund Policy
The above costs are only approximate and are subject to change.			re subject to	Refunds will be made prior to first class meeting only.







#### **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, 1987, the following certificate requirements are valid through the 1990-91 academic year. A student taking more than four (4) years 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. 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 Real Estate Search and Rescue Teacher Aide

evening classes.

**COMPLETION OF CERTIFICATE** 

Following are the specific requirements for the certificate programs listed above. Completion of certain

certificate programs may necessitate attending classes

during evening only or a combination of both day and

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**

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

**AUTOMOTIVE TECHNOLOGY** 

**ENGINE REPAIR & ENGINE PERFORMANCE** 

REQUIRED COUR	SES: UNITS
Auto. Tech. 101	Intro. to Auto Technology 1
Auto. Tech. 112	Pulling and Installing Engines 1
Auto. Tech. 114	Machine Shop Procedures 2
Auto. Tech. 116	Engine Rebuilding 4
Auto. Tech. 117a	Fuel Systems 2
Auto. Tech. 117b	Electro Mechanical Carburetors 1
Auto. Tech. 118	Emission Control 1
Auto. Tech. 119a	Gasoline Engine Tune-up: Basic
Auto. Tech. 119b	Gasoline Engine Tune-up: Advanced 2
Auto. Tech. 120	Computerized Engine Control (G.M.) 1
Auto. Tech. 121	Electronic Fuel Injection 1
Auto. Tech. 123	Computerized Engine Control 1
Auto. Tech. 125	Electronic Fuel Injection 1
Auto. Tech. 170a o	r 170b or 170c or 170d
	Practical Laboratory 2
	TOTAL REQUIRED UNITS 22

#### CERTIFICATES

#### AUTOMOTIVE TECHNOLOGY FRONT-END AND BRAKE

<b>REQUIRED COUR</b>	SES: UNITS	
Auto. Tech. 101	Intro. to Auto Technology 1	
Auto Tech. 140a	Brakes - Drum	
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 2	

TOTAL REQUIRED UNITS 10

#### AUTOMOTIVE TECHNOLOGY POWER TRAIN

<b>REQUIRED COUI</b>	RSES: UNITS	
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 c	or 170b or 170c or 170d	
	Practical Laboratory 2	

TOTAL REQUIRED UNITS 8

#### BUSINESS ADMINISTRATION MANAGEMENT

	MANAGEMENT
REQUIRED COU	JRSES: UNITS
Bus. Ad. 101	Principles of Business 3
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 3
Econ. 101a	Principles of Economics 4
Econ. 101b	Principles of Economics 4
Off. Oc. 68	Business Correspondence 3
	TOTAL REOUIRED UNITS 33-37

#### PROVEN COMPETENCY REQUIREMENT:

I ROTER COMILE	TENET REQUIREMENT.
<b>Business Mathemati</b>	ics Examination or
Bus. Ad. 63 Busines	s Mathematics 3
RECOMMENDED	OPTIONAL COURSES:
Bus. Ad. 145	Retail Business Management
Work Exp. 179	Occupational Work Experience Min. 4



Photo by Dirk Travis

#### BUISNESS ADMINISTRATION RETAILING

<b>REQUIRED COUR</b>	SES UNITS
Bus. Ad. 60a	Bookkeeping and
Bus. Ad. 60b	Bookkeeping 3
	or
Bus. Ad. 61	Small Business Accounting 4
Bus. Ad. 101	Principles of Business 3
Bus. Ad. 115a	Commercial Law 3
Bus. Ad. 120	Principles of Marketing 3
Bus. Ad. 123	Sales
Bus. Ad. 125	Advertising 3
Bus. Ad. 145	Retail Business Management
Econ. 101a	Principles of Economics 4
Econ. 101b	Principles of Economics 4
Off. Oc. 68	Business Correspondence 3
	TOTAL REQUIRED UNITS 33-35

#### PROVEN COMPETENCY REQUIREMENT:

AN ALL DA MANUCATANA REPAIRSONT AND ALL AND AL		
<b>Business Mathemati</b>	cs Examination or	
Bus. Ad. 63 Business	s Mathematics	3
RECOMMENDED	OPTIONAL COURSES:	
Bus. Ad. 140	Principles of Management	3
Work Exp. 179	Occupational Work Experience Min.	4

#### **CHILD DEVELOPMENT**

<b>REQUIRED COU</b>	RSES: UNI	ГS
Child Dev. 101	Principles of Child Dev	3
Child Dev. 103	Practices in Child Dev	3
Child Dev. 105	Child Nutrition	2
Child Dev. 107	Child Health & Safety	
Child Dev. 110	Creative Activities I 1	.5
Child Dev. 111	Creative Activities II 1	.5
Child Dev. 115	Observation & Participation	
Child Dev. 122	Child, Family, Community	3
Child Dev. 125	Infant/Toddler Careor	3
Child Dev. 127	School Age Children	3
Child Dev. 130	Child Care/Nursery School Administration	3
	TOTAL REQUIRED UNITS	24

#### **COMPUTER SCIENCE**

<b>REQUIRED COUR</b>	SES: UNITS
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
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
Computer Sc. 155	Data Base Management 3
English 101a	Reading and Composition 3
Mathematics 104	Logic 3
	or
Philosophy 104	Logic 3
Mathematics 110	Finite Mathematics 4
	TOTAL REQUIRED UNITS 28

#### COMPUTER SCIENCE APPLIED COMPUTER STUDIES

<b>REQUIRED COUR</b>	SES: UNITS	5
Computer Sc. 101	Intro. to Computer Concepts	2
Computer Sc. 103	Computer Operating Systems	1
Computer Sc. 107	Microcomp. Data File Mgmt.	
Computer Sc. 110a	Beginning Spreadsheets	l
Computer Sc. 110b	Advanced Spreadsheets	
Computer Sc. 125	PASCAL Programming I	
Computer Sc. 155	Data Base Management	3
Bus. Ad. 130a	Accounting	
Bus. Ad. 130b	Accounting	
Bus. Ad. 140	Principles of Management	3
English 101a	Reading and Composition	
Office Oc. 106	Microcomputer Word Processing	1
	TOTAL REQUIRED UNITS 2	7

# PROVEN COMPETENCY REQUIREMENT: Business mathematics examination or Bus. Ad. 63 Business Mathematics RECOMMENDED OPTIONAL COURSES: One or more of the 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**

<b>REQUIRED CO</b>	URSES:	UNIT
E.M.S. 103	Emergency Medical Technician Tr	aining
S.A.R. 103	Environmental Injuries	
S.A.R. 134	Helicopter Operations	
S.A.R. 153	Vehicle Extrication	
	TOTAL REQUI	RED UNITS

#### FIRE TECHNOLOGY

REQUIRED COU	RSES 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 1
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 2
Fire Tech. 61	Ground Ladders 2.5
Fire Tech. 68	Rescue 1.5
Fire Tech. 69	Ventilation
Fire Tech. 71	Fire Control
Fire Tech. 72	Fire Streams
Fire Tech. 73	Fire Extinguishers
Fire Tech. 74	Overhaul
Fire Tech. 76	Property Conservation 2
Fire Tech. 77	Fire Protection Systems
Fire Tech. 78	Size-up
Fire Tech. 79	Wildland Fire Fighting
Fire Tech. 81	Hazardous Materials
Fire Tech. 82	Fire Investigation
Fire Tech. 83	Communications
Fire Tech. 84	Vehicle Extrication
	TOTAL REQUIRED UNITS 29.5

	FORESTRY TECHNOLOGY		
	REOUIRED COUR	SES: UNITS	
IITS	Computer Sc. 101	Intro. to Comp. Concepts 2	
2	Fire Tech. 117	Wildland Fire Control 2	
1 1	Forest Tech. 50	Intro. to Technical Forestry	
1	Forestry 101	Introduction to Professional Forestry 3	
1	Forestry Tech. 53	Forest Surveying Techniques 3	
3	Forestry Tech. 56	Tree & Plant Identification 3 or	
4	Forestry 110	Dendrology	
3 3 1	Forestry Tech. 62 Nat. Res. Tech. 50 Nat. Res. Tech. 52	Applied Forest Inventory and Management       4         Natural History and Ecology       2         Applied Wildlands Management       3	
S 27	Nat. Res. Tech. 60	Aerial Photog. & Map Interpretation 2	
	S.A.R. 122	or Wilderness Navigation 2	
3	Nat. Res. Tech. 81 Nat. Res. 100 Nat. Res. 109	California Wildlife	
2		TOTAL REQUIRED UNITS 32-33	
3 3 3	Mathematics Exami		
3 3	Reading Examination	ic Mathematics (or higher)	
	Typing Examination Off. Oc. 101a Keyb	n or	
NITS 6	Writing Examination	Typing Applications         1-2           n or         3	
1	ADDITIONAL RE		
1 1 TS 9		er Employment Approved by Forestry Staff.	
	HOSI	PITALITY MANAGEMENT	
		CULINARY ARTS	
IITS	REOUIRED COUR	SES: UNITS	
1.6	Hosp. Mgmt. 103	Marketing of Hospitality Services	
1 1	Hosp. Mgmt. 131	Dining Room Service 3	
. 1	Hosp. Mgmt. 136	Commercial Baking: Adv 2	
1.5	Hosp. Mgmt. 140a	Classical Cuisine: Beg 3	
. 1	Hosp. Mgmt. 140b	Classical Cuisine: Inter	
1	Hosp. Mgmt. 142 Hosp. Mgmt. 147	Garde Manger 2 Beverage Management 3	
3 2 .2.5 .1.5	-200p. Maganti 47/	TOTAL REQUIRED UNITS 19	

#### HOSPITALITY MANAGEMENT FOOD SERVICE TECHNOLOGY

<b>REQUIRED COUR</b>	SES: UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry 3
Hosp. Mgmt. 130	Food Service Management 2
Hosp. Mgmt. 132	Dining Room Management 1.5
Hosp. Mgmt. 133a	Intro. to Commercial Food Preparation 3.5
Hosp. Mgmt. 133b	Intro. to Commercial Food Preparation 3.5
Hosp. Mgmt. 135	Commercial Baking 3
Hosp. Mgmt. 139	Food Science and Nutrition
Hosp. Mgmt. 144	Meat Analysis 2
	TOTAL REQUIRED UNITS 21.5

#### **CERTIFICATES**

#### **HOSPITALITY MANAGEMENT** HOTEL MANAGEMENT

REQUIRED COUR	RSES: UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry 3
Hosp. Mgmt. 103	Marketing of Hospitality Services
Hosp. Mgmt, 112	Front Office Management/Hotel Catering 1.5
Hosp. Mgmt. 114	Intro. to Maintenance and Housekeeping 1.5
Hosp. Mgmt. 130	Food Service Management 2
Hosp. Mgmt. 160	Intro. to Travel-Tourism Industry/Tours 2
Bus. Ad. 63	Business Mathematics 3
	TOTAL REOUIRED UNITS 16

#### **RECOMMENDED OPTIONAL COURSES:**

Bus. Ad. 60a	Bookkeeping and 3	3
Bus. Ad. 60b	Bookkeeping 3	3
	or	
Bus. Ad. 130a	Accounting and 4	ŧ
Bus. Ad. 130b	Accounting 4	ł.
Off. Oc. 136	Electronic Printing Calculators 1	

#### **HUMAN SERVICES** DISABLED

UNITS

#### REQUIRED COURSES:

· · · · · · · · · · · · · · · · · · ·	
Physical Ed. 105	Personal Fitness Concepts/Evaluation 3
Physical Ed. 173a	Adult Fitness Program I 1-3.5
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 3
Sociology 110	Deviance and Conflict 3
Sociology 179	Work Experience 3
	TOTAL REQUIRED UNITS 25-27.5

#### **HUMAN SERVICES** GERONTOLOGY

#### REQUIRED COURSES:

REQUIRED COUR	RSES: UNIT
Health Ed. 50	Cardiopulmonary Resuscitation 5
Health Ed. 105	Consumer Health 2
Physical Ed. 173a	Adult Fitness Program I 1-3.5
Psychology 101	General Psychology 3
Psychology 130	Personal and Social Adjustment 3
Sociology 101	Introduction to Sociology 3
Sociology 112	Family, Marriage, and the Individual 3
Sociology 127	Aging 3
Sociology 128	Death and Dying 3
Sociology 179	Work Experience
	TOTAL REQUIRED UNITS 24.5-27

#### **HUMAN SERVICES** SOCIAL WELFARE

<b>REQUIRED</b> COUF	RSES: UNITS
Physical Ed. 105	Personal Fitness Concepts/Evaluation 3
Physical Ed. 173a	Adult Fitness I 1-3.5
Psychology 101	General Psychology 3
Psychology 130	Personal and Social Adjustment 3
Psychology 145a	Developmental Psychology 3
Psychology 145b	Developmental Psychology 3
Sociology 101	Introduction to Sociology 3
Sociology 110	Deviance and Conflict 3
Sociology 112	Family, Marriage and the Individual 3
Sociology 128	Death and Dying 3
Sociology 179	Work Experience 3
Speech 135	Interpersonal Communication 3
	TOTAL REQUIRED UNITS 34-36.5

#### NATURAL RESOURCES INTERPRETATION

REQUIRED COUF	RSES: UNITS
Art 145	Field Photography 2
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 2
Earth Sci. 125	Geology of the National Parks 3
For. Tech. 56	Tree and Plant Identification 3
	or
Forestry 110	Dendrology
Health Ed. 113	Adv. First Aid and Emergency Care 3
History 149	The Mother Lode
	or
History 155	The American Frontier 3
Nat. Res. 100	Environmental Conservation 3
Nat. Res. 109	Parks and Forests Law Enforcement 2
Nat. Res. 130	Wild Edible and Useful Plants
Nat. Res. Tech. 50	Natural History and Ecology 2
Nat. Res. Tech. 52	Applied Wildlands Management 3
Nat. Res. Tech. 55	Interpretive Guided Tours 2
Nat. Res. Tech. 81	California Wildlife 4
	TOTAL REQUIRED UNITS 37-37.5

#### NATURAL RESOURCES TECHNOLOGY

<b>REQUIRED COUR</b>	RSES: UNITS
Earth Sci. 125 Fire Sci. 117	Geology of National Parks
For. Tech. 50	Intro. to Technical Forestry 2 or
Forestry 101	Introduction to Professional Forestry 3
For. Tech. 53	Forest Surveying Techniques 3
For. Tech. 56	Tree & Plant Identification 3 or
Forestry 110	Dendrology
Nat. Res. Tech. 50	Natural History and Ecology 2
Nat. Res. Tech. 52	Applied Wildlands Management 3
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 3
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) ..... 2 Reading Examination or Typing Examination or Off. Oc. 101a Keyboarding or Off. Oc. 101b Basic Typing Applications ..... 1-2 Writing Examination or English 51 or 101a ...... 3

#### **OFFICE OCCUPATIONS CLERK TYPIST**

REQUIRED COL	
Bus. Ad. 63	Business Mathematics
Bus. Ad. 60a	Bookkeeping and 3
Bus, Ad. 60b	Bookkeeping 3
	or
Bus, Ad, 61	Small Business Accounting 4
	or
Bus. Ad. 130a	Accounting and 4
Bus. Ad. 130b	Accounting 4
Comp. Sci. 101	Intro. to Computer Concepts 2
Office Oc. 65	Business English 3
Office Oc. 68	Business Correspondence 3
Office Oc. 103	Intermediate Typing 3
Office Oc. 108	Word Processing: Electronic Typewriter 1
	or
Office Oc. 109	Word Processing: Display System 2
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 3
	TOTAL REQUIRED UNITS 27-32

#### **OFFICE OCCUPATIONS GENERAL CLERK**

REQUIRED COL	01110
Bus. Ad. 63	Business Mathematics 3
Bus. Ad. 60a	Bookkeeping and 3
Bus. Ad. 60b	Bookkeeping 3 or
Bus. Ad. 61	Small Business Accounting 4 or
Bus. Ad. 130a	Accounting and 4
Bus. Ad. 130b	Accounting 4
Comp. Sci. 101	Intro. to Computer Concepts 2
Comp. Sci. 103	Computer Operating Systems 1
Office Oc. 65	Business English 3
Office Oc. 68	Business Correspondence 3
Office Oc. 103	Intermediate Typing 3
Office Oc. 130	Filing Systems and Records Management 2
Office Oc. 136	Electronic Printing Calculators 1
	TOTAL REQUIRED UNITS 22-26

TOTAL REQUIRED UNITS 22-26



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#### **OFFICE OCCUPATIONS** LEGAL SECRETARIAL

		EBGHE BECKETAKIAL
	REQUIRED COU	RSES: UNITS
	Bus. Ad. 58	Pegboard Payroll 1
	Bus. Ad. 115a	Commercial Law 3
	Bus. Ad. 115b	Commercial Law 3
	Comp. Sci. 101	Intro. to Computer Concepts 2
	Office Oc. 65	Business English
	Office Oc. 68	Business Correspondence 3
	Office Oc. 103	Intermediate Typing 3
1	Office Oc. 108	Word Processing: Electronic Typewriter 1
	Office Oc. 109	Word/Information Processing 2
	Office Oc. 112	Intermediate Shorthand 4
	Office Oc. 130	Filing Systems/Records Management 2
	*Office Oc. 132	Machine Transcription 2
	*Office Oc. 154	Legal Transcription/Terminology 2
	Office Oc. 157	Legal Office Procedures 3
		TOTAL REQUIRED UNITS 34

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

#### **OFFICE OCCUPATIONS** MEDICAL RECEPTIONIST

REQUIRED COUR	SES: UNITS
Bus. Ad. 58	Pegboard Payroll 1
Bus. Ad. 63	Business Math 3
Comp. Sci. 101	Intro. to Computer Concepts 2
Office Oc. 65	Business English 3
Office Oc. 68	Business Correspondence 3
Office Oc. 103	Intermediate Typing 3
Office Oc. 108	Word Processing: Electronic Typewriter 1
Office Oc. 109	Word/Information Processing 2
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 2
Office Oc. 144	Medical Insurance 2
	TOTAL REQUIRED UNITS 31

#### **OFFICE OCCUPATIONS**

#### MEDICAL TRANSCRIPTION

REQUIRED COUR	RSES: UNITS
Comp. Sci. 101	Intro. to Computer Concepts 2
Office Oc. 65	Business English 3
Office Oc. 68	Business Correspondence 3
Office Oc. 103	Intermediate Typing 3
Office Oc. 106	Beginning Word Processing 2
*Office Oc. 132	Machine Transcription 2
Office Oc. 140	Medical Terminology 3
*Office Oc. 142a	Medical Transcription 2
*Office Oc. 142b	Medical Transcription 2
	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	3
Bus. Ad. 60a	Bookkeeping	3
Comp. Sci. 101	Intro. to Computer Concepts	2
Office Oc. 65	Business English	3
Office Oc. 68	Business Correspondence	3
Office Oc. 103	Intermediate Typing	3
Office Oc. 108	Word Processing: Electronic Typewriter	1
Office Oc. 109	Word/Information Processing	2
Office Oc. 110	ABC Beginning Shorthand	4
Office Oc. 130	Filing Systems and Records Managemen	at 2
Office Oc. 132	Machine Transcription	2
Office Oc. 136	Electronic Printing Calculators	1
Office Oc. 138	Office Procedures	3
	TOTAL REQUIRED U	UNITS 32

#### **REAL ESTATE**

REQUIRED COUR	RSES: UNITS
Bus. Ad. 63	Business Math 3
Bus. Ad. 101	Principles of Business 3
Real Estate 101	Principles of Real Estate 3
Real Estate 105	Real Estate Practice 3
Real Estate 110	Legal Aspects of R.E 3
Real Estate 115	Real Estate Finance 3
Real Estate 120	Real Estate Appraisal 3
Real Estate 125	Real Estate Economics
	TOTAL REQUIRED UNITS 24

#### SEARCH AND RESCUE FIRE SERVICE

<b>REQUIRED COU</b>	RSES: UNITS
Health Oc. 103	Emergency Med. Tech. Training 6
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
	<b>TOTAL 13.5</b>

#### PLUS 2 UNITS FROM ANY OTHER COURSES IN

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.

#### **TEACHER AIDE**

REQUIRED COUR	RSES: UNIT	S
Teacher Aide 55a	Teacher Aide Training: Beg	3
Teacher Aide 55b	Teacher Aide Training: Adv	3
Teacher Aide 65	Reading Fundamentals for Teacher Aides	2
	TOTAL REQUIRED UNITS	8



# GRADUATION AND TRANSFER REQUIREMENTS



<ul> <li>GRADUATION REQUIREMENTS AT COLUMBIA COLLEGE:</li> <li>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.)</li> <li><b>1. TOTAL UNITS:</b> 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.</li> <li><b>2. SCHOLARSHIP:</b> A cumulative Grade Point Average of not less than 2.0 ("C" average).</li> <li><b>3. MAJOR:</b> Satisfactory completion of any AA/AS Major listed in the Columbia College Catalog. 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.</li> </ul>		<ul> <li>TRANSFER REQUIREMENTS TO A CALIFORNIA STATE UNIVERSITY:</li> <li>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:</li> <li><b>1. TOTAL UNITS:</b> 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.)</li> <li><b>2. SCHOLARSHIP:</b> A cumulative Grade Point Average of not less than 2.0 ("C" average).</li> <li><b>3. MAJOR:</b> Satisfactory completion of lower division prerequisites for the BA/BS Major listed in the catalog of the California State University transfer campus.</li> </ul>	
<b>GENERAL EDUCATION BREADTH</b> completion of each Area of General Edu by choosing suitable courses from those is must be completed with a grade of "C transfer to California State Universitie listed in the right-hand column. Students	acation "A" through "E" below, listed under each Area. All courses C" or better. Students wishing to s should follow the requirements	follow the requirements listed in the to satisfy BOTH patterns are listed are encouraged to satisfy both patte	ollege with the AA or AS Degree, should left-hand column. The courses suitabl in the center column. Transfer student rns at the same time by careful selection the AA/AS Degree as well as transfer
FOR AA/AS GRADUATION:	SUITABLE COURSES FOR EACH	AREA OF GENERAL EDUCATION:	FOR TRANSFER:
Three courses required: one each from A.1, A.2, A.3.		als of Speech (3).	Three Courses required: one eac from A.1, A.2, A.3.

	<ul> <li>Area A continued</li> <li>A.3 Critical Thinking <ul> <li>Mathematics 104, Introduction to Logic (3).</li> <li>Philosophy 104, Introduction to Logic (3).</li> <li>Computer Science 120, BASIC Programming (3).</li> <li>Computer Science 125, PASCAL Programming (3).</li> <li>Computer Science 127, FORTRAN Programming (3).</li> <li>Computer Science 129, COBOL Programming (3).</li> <li>Computer Science 132, RPG II Programming (3).</li> </ul> </li> </ul>	
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), and Mathematics 60, Geometry (4).	<ul> <li>AREA B. THE PHYSICAL UNIVERSE, ITS LIFE FORMS AND MATHEMATICAL CONCEPTS:</li> <li>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),</li> </ul>	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.

(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). **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).

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	<ul> <li>Area B continued</li> <li>B.3 Quantitative Reasoning and Mathematics: Math. 101, Intermediate Algebra (4). 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).</li> </ul>	1
FOR AA/AS GRADUATION: Two courses required: one each from C.1 and C.2	<ul> <li>AREA C. ARTS, LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGE:</li> <li>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). Physical Education 117, Choreography and Composition (3).</li> <li>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 146a, Survey of English Literature (3). English 146b, Survey of English Literature (3). Humanities 101, Old World Culture (3). Humanities 101, Old World Culture (3). Philosophy 115, World Religions (3). Philosophy 125, Twentieth Century Philosophy (3). Spanish 101a, Spanish: Beginning (4).</li> </ul>	FOR TRANSFER: Three courses required, including one each from C.1 and C.2.

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FOR A A /AS CRADUATION	ADEA D. COCIAL DOLITICAL AND DOCUMENTS	1
FOR AA/AS GRADUATION:	AREA D. SOCIAL POLITICAL AND ECONOMIC INSTITUTIONS AND BEHAVIOR:	FOR TRANSFER:
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).	<ul> <li>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).</li> <li>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).</li> <li>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).</li> </ul>	Four courses required: one each fro D.1 and D.2, and two from D. (Refer to Note 2 below for more information about D.3.)
FOR AA/AS GRADUATION:	SUITABLE COURSES FOR EACH AREA OF GENERAL EDUCATION	FOR TRANSFER:
Required: One course in E.	<ul> <li>AREA E. LIFELONG UNDERSTANDING AND SELF- DEVELOPMENT: Health Education 101, Health and Fitness Education (3). Physical Education 105, Personal Fitness Concepts &amp; Evaluation (3). Psychology 130, Personal &amp; Social Adjustment (3). Social Sciences 140, Human Sexual Behavior (3).</li> </ul>	Required: One course in E. Also a ceptable in E: Physical Education 173a, Adult Fitness Program (3).

		COLUMBIA COLLEGE MAJORS
		Students are required to complete an academic major to
ansfer, ansfer, Educati ral Stud ss may n ceadth F nstitutic nstitutic		fulfill the Associate Degree requirements of Columbia
une cau iill tran traduit r requises n Bread fer inst fer inst fer inst		College. Following are the course requirements for each major currently offered.
consurt the catalo sty General Educa sty major requirem College Liberal Stu e same courses may Education Breadth college term, but at the close of the		major currently offered.
e it within. Consult us to which you w ed to satisfy Gene sed to satisfy majo Columbia College major, the same co General Educatio the C.S.U. system catalog of the trans catalog of the trans		ART
ch you character sfy Ge sfy Ge sfy rad sfy Ge sfy ma af the traditional college at the traditional col		REQUIRED COURSES: UNITS
which y satisfy satisfy the sat rral Edu s of the s of the ises at 1		Art 101Freehand Drawing3Art 102Basic Color & Design3
any cises		Art 109a Life Drawing: Beginning 1.5
ade it with puss to w sed to si used to si the Columb s major, in Genera during a during a on exercis		Art 111aHistory of Art: Ancient and Medieval
mpus nuce it more it more it more it in the Garana it is may not exist it is may not i		Art 121a Painting, Beginning
mers include it within risity campus to whic cation. ourses used to sati y also be used to sati ept for the Columbia al Studies major, the or and the General or and the catalog of ther than the C.S.U ted in the catalog of ted in the catalog of graduation exercises		Art 123aWatercolor: Beginning3Art 131aCeramics: Introductory3
aduated at the state of the sta		TOTAL REQUIRED UNITS 22.5
others incluversity can inversity can inversity can may also be except for t beral Studi fajor and 1 completed at graduati		
Unive ou Unive its: C Liber be co be co ly at lo		ART
while while while while and and the h h h h		PHOTOGRAPHY REQUIRED COURSES: UNITS
r for v for		Art 102 Basic Color & Design 3
s s s s s s s s s s s s s s s s s s s		Art 141a Photography: Beginning 3
formurer for advactor for for the rate		Art 141bPhotography: Intermediate3Art 141cPhotography: Advanced3
n requirer your your Calify your South poot h poot		Art 142a Color Photo.: Slidemaking 3
tion requirement the California see your adviss <b>Double-counti</b> Breadth Requi in both patterr major. For the be used for by quirements. Students trans follow the requirements ees are confer ng Semester.		Art 148 Special Topics in Photography
tron tron Bree Stu follo follo		TOTAL REQUIRED UNITS 18
<ul> <li>3. Double-count the California see your advises your advises your advises of the California see your advises the count between the set of the be used for 1 quirements.</li> <li>4. Students transfollow the reaction requirement the reaction requirement of the reaction reaction requirement of the reaction reaction requirement of the reaction rea</li></ul>		AUTOMOTIVE TECHNOLOGY
		REQUIRED COURSES: UNITS Auto. Tech. 101 Intro. to Auto. Tech
		Auto. Tech. 114 Machine Shop Procedures
a li la a la constante de la const		Auto. Tech. 116 Engine Rebuilding 4
in in the second		Auto. Tech. 117aFuel Systems2Auto. Tech. 119aGasoline Engine Tune-up: Basic2
College the 1990 to gradu apply college to folloge s. s. a will m a will m a will m a will m a s place eral Edu d. Gradu		Auto. Tech. 134 Axles and Drive Lines 1
r years. r years. r years. r years. r years. and Gover oward the poward the puses pla npuses pla npuses pla r the seme the seme the seme		Auto. Tech. 136         Auto. Transmission (GM)
ucation mbia Co ough tho nutinue and the and Go om D.3 oward the count in mpuses e Gener mpuses e Gener the se f the se		Auto. Tech. 144a Front-end and Suspension
		Auto. Tech. 150a       Electrical Theory       2         Auto. Tech. 150b       Charging Systems       2
and General Edu atts entering Colur and are valid thro enrolled may con more than four y of older than four y of two courses fro will be credited to the University can ement outside the ement outside the erenth week of requirements is ex		Auto. Tech. 150c Starting & Ignition Systems
eneral h erring Co ed may than fou han fou courses courses recredited e 39 wi vversity outside th week ments is ments is		TOTAL REQUIRED UNITS 24
The second secon		BIOLOGY
and Gen dents enteri di and are v ly enrolled ng more tha not older t ent in U.S. ent in U.S. ent of two co its will be cr linits above State Unive uirement ou the seventh on requirem		REQUIRED COURSES: UNITS
ation and students er students er ously enro aking mort aking mort erten old rement in U etion of tw iia State U requiremen an the sev ation requi		AT LEAST 12 UNITS FROM:
ation an students (987, an ously er aking m ation of tement i requirer requirer ation re- an the ation re-		Biology 111     Principles of Biology     4       Biology 121     Principles of Plant Biology     4
Tor graduation and General E Ior graduation and General E dents previously enrolled may of but those taking more than fou but those taking more than fou i requirements not older than fo des a requirement in U.S. Histor des a requirement in U.S. Histor to only three units will be credited ation units. (Units above 39 wil me California State University c overnment requirement outside t ation units. The st Braduate from Columbia College no later than the seventh week f the graduation requirements is f the graduation requirements is		Biology 131 Principles of Animal Biology 5
aradua msfer si ester 15 ester 15 previo hose ta interner ment r ment r ment r ater tha gradua		Biology 140Introductory Human Anatomy4Biology 160Introduction to Human Physiology4
In the generation of the gener		Biology 165 Microbiology
wrest for graduation e and transfer studer Fall semester 1987, a Students previously og, but those taking tion requirements no cludes a requirement but only three units ducation units. (Uni Some California Sta dovernment requir fice no later than the n of the graduation n n of the graduation n		TOTAL 12
		AND AT LEAST 8 UNITS FROM: Any Biology course 100 or above not counted
se requireme se requireme first time in demic year. demic year. ir older catalo st use gradua ifornia law in the BA/BS I requirement, ed General E trive credit.) S. History and the credit.) S. History and ch completio (ch completio		in the above list 1-4
I hese require the first time i academic year academic year must use grad for the BA/B for the BA/B for the BA/B for the BA/B the requirement tified General elective credit U.S. History a which complet which complet		Chemistry 100 or higher       4-5         Earth Science 139       Field Geology       1-3
I hese req Associate the first ti academic their older for the B/ the requir tified Ger elective of and Recon which con		Health Ed. 120 Nutrition
I hese re Associat academii their old must use must use Californ for the F the requi U.S. His elective which cc which cc		Natural Res. 100       Environmental Conservation       3         Physics 100 or higher       2-5
Asset action of the action of		TOTAL REQUIRED UNITS 20
-i -i -i-		TO THE REQUIRED UNITS 20
	L	

SUPPLEMENTARY NOTES:

## MAJORS

to		<b>BUSINESS</b> CLERICAL
oia	REQUIRED COUL	RSES: UNITS
ich	Bus. Ad. 60a	Bookkeeping and 3
	Bus. Ad. 60b	Bookkeeping
1	6 8 8 8	70
	Bus. Ad. 61	Small Business Acctng 4
ITS	Bus. Ad. 130a	Accounting and 4
. 3	Bus. Ad. 130b	Accounting 4
.3 1.5	Office Oc. 65	Business English
. 3	Office Oc. 103	Intermediate Typing
. 3	Office Oc. 106	Beginning Word Processing
. 3	Office Oc. 108	Word Process: Electronic Typewriter 1
. 3	Office Oc. 130	Filing Systems & Records Mgmt
. 3	Office Oc. 132	Machine Transcription
2.5		TOTAL 17-21
	AND 1-5 UNITS F	
	Bus. Ad. 63	Business Mathematics
	Computer Sci. 101	Intro. to Computer Concepts
	Office Oc. 68	Business Correspondence 3
TS	Office Oc. 136	Electronic Printing Calculators
. 3		TOTAL REQUIRED UNITS 22
. 3		TO THE RECORED UNITS 22
. 3		
. 3		
. 3		
18		BUSINESS
		SECRETARIAL
	<b>REQUIRED COUR</b>	SES: UNITS
тs	Office Oc. 68	Business Correspondence 3
1	Office Oc. 103	Intermediate Typing 3
2	Office Oc. 106	Beginning Word Processing 2
4	Office Oc. 112	Intermediate Shorthand 4
2	Office Oc. 130	Filing Systems & Records Mgmt, 2
2	Office Oc. 132	Machine Transcription 2
1		TOTAL 14
2	AND AT LEAST 4	UNITS FROM:
2	Office Oc. 65	Business English 3
2	Bus. Ad. 60a	Bookkeeping and
2	Bus. Ad. 60b	Bookkeeping
2		or
$\frac{2}{24}$	Bus. Ad. 61	Small Business Accounting 4 or
	Bus. Ad. 130a	Accounting and 4
	Bus. Ad. 130b	Accounting
rs	Computer Sci. 101	Intro. to Computer Concepts
		TOTAL REQUIRED UNITS 20
4		an Ar Andra

#### BUSINESS

## **BUSINESS ADMINISTRATION (PROFESSIONAL)**

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

#### MAJORS

#### BUSINESS

#### BUSINESS ADMINISTRATION (OCCUPATIONAL)

<b>REQUIRED COUR</b>	SES: UNITS
Bus. Ad. 63	Business Mathematics 3
Bus. Ad. 101	Principles of Business
Bus. Ad. 60a	Bookkeeping and 3
Bus. Ad. 60b	Bookkeeping 3
	or
Bus. Ad. 61	Small Business Accounting 4
Computer Sci. 103	Computer Operating Systems 1
Office Oc. 68	Business Correspondence 3
	TOTAL 14-16

#### AND 6 UNITS FROM:

Bus. Ad. 104	Human Relations in Business 3
Bus. Ad. 115a	Commercial Law 3
Bus. Ad. 115b	Commercial Law 3
Bus. Ad. 120	Principles of Marketing 3
Bus. Ad. 123	Sales 3
Bus. Ad. 125	Advertising 3
Bus. Ad. 140	Principles of Management 3
Bus. Ad. 145	Retail Business Management 3
Bus. Ad. 150	Small Business Management 3
	TOTAL REQUIRED UNITS 20-22

#### **CHILD DEVELOPMENT**

REQUIRED COUR	SES: UNITS
Child Dev. 101	Principles of Child Dev 3
Child Dev. 103	Practices in Child Dev 3
Child Dev. 105	Child Nutrition 2
Child Dev. 107	Child Health & Safety 1
Child Dev. 110	Creative Activities I 1.5
Child Dev. 111	Creative Activities II 1.5
Child Dev. 115	Observation & Participation 1-3
Child Dev. 122	Child, Family, Community 3
Child Dev. 125	Infant/Toddler Care 3
	or
Child Dev. 127	School Age Children 3
Child Dev. 130	Child Care/Nursery School Administration 3
	TOTAL REQUIRED UNITS 22-24

#### **COMPUTER SCIENCE**

REQUIRED COUR	RSES: UNITS
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 3
	or
Computer Sc. 127	FORTRAN Programming 3
	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 3
English 101a	Reading and Composition 3
Mathematics 104	Logic 3 or
Philosophy 104	Logic 3
Mathematics 110	Finite Mathematics 4
	TOTAL REQUIRED UNITS 28



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#### ENGLISH

REQUIRED COUL	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 3
English 146b	Survey of English Literature
English 149	California Literature 3
English 150	Introduction to Shakespeare 3
	TOTAL REQUIRED UNITS 21

#### FIRE TECHNOLOGY

REQUIRED COUR	SES: UNITS	
Fire Tech. 101	Intro. to Fire Technology 3	
Fire Tech. 104	Fund. of Fire Behavior & Control 3	
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 REQUIRED UNITS 22	

# FORESTRY TECHNOLOGY

REQUIRED COUR	SES: UNITS
For. Tech. 50	Intro. to Technical Forestry 2
	or
Forestry 101	Intro. To Professional Forestry 3
For. Tech. 53	Forest Surveying Techniques 3
For Tech. 56	Tree & Plant Identification 3 or
Forestry 110	Dendrology
Nat. Res. Tech. 60	Aerial Photography and Map Interpretation 2
	or
S.A.R. 122	Wilderness Navigation 2
	TOTAL 10-11
AND 9-10 UNITS H	FROM:
Fire Tech. 117	Wildland Fire Control 2
Forestry Tech 62.	Applied Forest Inventory and Management 4
Nat. Res. Tech. 50	Natural History and Ecology 2
Nat. Res. Tech. 52	Applied Wildlands Management 3
Nat. Res. Tech. 81	California Wildlife 4
Natural Res. 100	Environmental Conservation 3
Natural Res. 109	Parks and Forests Law Enforcement 2
	TOTAL REQUIRED UNITS 20

# HISTORY

REQUIRED COL	
History 104a	World Civilization: to 1650 4
History 104b	World Civilization: 1650 to Present 4
History 117a	United States: to 1865 3
History 117b	United States: 1865 to Present 3
	TOTAL 14
	6 UNITS FROM:
Any other History	
Any Political Scie	nce course or
Anthro. 101	Intro. Anthro: Physical 3
	or
Anthro. 102	Intro. to Anthro: Cultural 3
Economics 101a	Prin. of Econ.: Macro-Economics
	or
Economics 101b	Prin. of Econ.: Micro-Economics 4
Geography 102	Cultural Geography 3
Sociology 101	Introduction to Sociology 3
	or
Sociology 102	American Social Patterns 3
	TOTAL BEOLUBER LOUTS

TOTAL REQUIRED UNITS 18

## HOSPITALITY MANAGEMENT

#### **CULINARY ARTS** DEOLUDED COUDEES

REQUIRED COUR	RSES:
Hosp. Mgmt. 103	Marketing of Hospitality Services 3
Hosp. Mgmt. 131	Dining Room Service 3
Hosp. Mgmt. 136	Commercial Baking: Adv
Hosp. Mgmt. 140a	Classical Cuisine: Beg.
Hosp. Mgmt. 140b	Classical Cuisine: Inter 3
Hosp. Mgmt. 142	Garde Manager 2
Hosp. Mgmt. 147	Beverage Management 3
	TOTAL PEOLUBED LINUTS 10

TOTAL REQUIRED UNITS 19

UNITS

#### HOSPITALITY MANAGEMENT FOOD SERVICE TECHNOLOGY

# **REQUIRED COURSES:**

	UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry
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	Intro. to Commercial Food Preparation 3.5
Hosp. Mgmt. 139	Food Science and Nutrition
Hosp. Mgmt. 140a	Classical Cuisine: Beginning
Hosp. Mgmt. 140b	Classical Cuisine: Advanced 3

TOTAL REQUIRED UNITS 26



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#### MAJORS



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# HOSPITALITY MANAGEMENT

#### HOTEL MANAGEMENT

REQUIRED COUR	RSES: UNITS
Hosp. Mgmt. 101	Introduction to Hospitality Industry
Hosp. Mgmt. 103	Marketing of Hospitality Services
Hosp. Mgmt. 112	Front Office/Hotel Catering 1.5
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 18

#### **RECOMMENDED OPTIONAL COURSES:**

Bus. Ad. 60a	Bookkeeping 3
Bus. Ad. 60b	Bookeeping
Bus. Ad. 63	Business Mathematics 3
Bus. Ad. 130a	Accounting 4
Bus. Ad. 130b	Accounting 4
Off. Oc. 136	Electronic Printing Calculators 1

#### HUMANITIES

REQUIRED COU	RSES:	UNITS
Humanities 101	Old World Culture	
Humanities 102	Modern Culture	3
AND ONE COUR	SE IN ART HISTORY FROM:	
Art 111a	History of Art: Ancient and Medieval	
Art 111b	History of Art: Ren., Baroque, Modern .	
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 Literature .	3
AND ONE COURS	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	3
AND ONE COURS	SE IN HISTORY OR PHILOSOPHY FR	OM:
History 104a	World Civilizations: to 1650	3
History 104b	World Civilizations: 1650 to Present	3
History 111	Asian Civilizations	3
Philosophy 101	Introduction to Philosophy	
Philosophy 115	World Religions	3
Philosophy 125	Twentieth Century Philosophy	3
	TOTAL REQUIRED UN	

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#### MAJORS

#### 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.)

inimum of 6 Units):
History of Art: Ancient and Medieval
History of Art: Ren., Baroque, Modern 3
Oral Expression and Interpretation 3
Literature of the United States
Literature of the United States
Survey of English Literature 3
Survey of English Literature 3
Old World Culture 3
Modern Culture 3
Survey of Music History and Literature 3
Survey of Music History and Literature 3
Introduction to Philosophy 3
World Religions 3
NCES AND MATHEMATICS
uits):
Fundamentals of Biology 3
Principles of Biology 4
Fundamentals of Chemistry 4
General Chemistry 5
Introduction to Computer Concepts 2
and
Computer Operating Systems 1
BASIC Programming 3
Physical Geology 4
Descriptive Astronomy 3
Fundamentals of Meteorology 3
Fundamentals of Oceanography 3
Intermediate Algebra (or higher) 4
Introduction to Logic 3
Environmental Conservation 3
Introduction to Logic 3
Conceptual Physics 3
General Physics 5
CES (Minimum of 6 Units):
Intro. to Anthropology: Physical
Intro. to Anthropology: Cultural
Indians of North America
Principles of Business
Principles of Economics 4
Principles of Economics
Intro. to Cultural Geography 3
World Civilization: to 1650
World Civilization: 1650 to Present
United States History
United States History
Constitutional Government
Comparative Political Systems
General Psychology
Social Psychology
Introduction to Sociology
American Social Patterns
Family, Marriage, Individual 3
ranny, marnage, mernautriciter etter

#### MATHEMATICS

REQUIRED COU	RSES: UNITS
Math. 103	College Algebra 4
	or
Math. 105	Elements of Statistics 4
Math. 120a	Calculus w/Analytic Geometry 4
Math. 120b	Calculus w/Analytic Geometry 4
	TOTAL 12
AND 10 UNITS I	FROM:
Comp. Sci. 120	BASIC Programming 3
Comp. Sci. 121	Data File Programming with BASIC 3
Math 103	College Algebra 4
Math 105	Elements of Statistics 4
Math 110	Finite Mathematics 4
Physics 120a	General Physics 5
Physics 120b	General Physics 5
	TOTAL REQUIRED UNITS 22
	MICK

#### MUSIC

	Meore
REQUIRED CO	URSES: UNITS
Music 120a	Music Theory 5
Music 120b	Music Theory 5
Music 150	Applied Music (Major Instrument) 1
	TOTAL 11
MINIMUM OF	4 UNITS FROM:
Music 131a	Elementary Class Piano 2
Music 131b	Elementary Class Piano 2
Music 141a	Intermediate Class Piano 2
Music 141b	Intermediate Class Piano 2
Piano maiors m	ay substitute additional units from
courses in Mu	usic 150 - 179 series.
	TOTAL 15
AND A MININ	IUM OF 4 UNITS FROM:
Music 160	Choir 1
Music 164	Jazz Choir 1
Music 165	Theatre Production: Music Emphasis 1
Music 166	Community Chorus 1
Music 169	Madrigal Ensemble 1
Music 170	Wind Ensemble 1
Music 172	Jazz Ensemble 1
Music 176	Orchestra 1
Music 179	Ensemble: Instrumental Emphasis1
	TOTAL REQUIRED UNITS 19
RECOMMENI	DED 3 UNITS FROM:
Music 102	Introduction to Music 3
	Gumme of Music History and Literature 3

Music 110a	Survey of Music History and Literature 3
Music 110b	Survey of Music History and Literature 3
Music 112	Survey of Jazz and Popular Music 3



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#### NATURAL RESOURCES TECHNOLOGY

REQUIRED COUR	SES: UNITS
Nat. Res. Tech. 50	Natural History and Ecology 2
Nat. Res. Tech. 52	Applied Wildlands Management 3
Nat. Res. Tech. 55	Interp. Guided Tours
Nat. Res. Tech. 60	Aerial Photo. and Map Interp 2
S.A.R. 122	or Wilderness Navigation
Nat. Res. 100	Environmental Conservation 3
	TOTAL 12
AND 8 UNITS FRO	OM:
Fire Sci. 117	Wildland Fire Control 2
For. Tech. 50	Introduction to Technical Forestry 2
	or
Forestry 101	Introduction to Professional Forestry 3
For Tech. 53	Forest Surveying Techniques 3
For Tech. 56	Tree and Plant Identification 3
	or
Forestry 110	Dendrology 3
For. Tech. 62	Applied Forest Inventory and Management 4
Nat. Res. Tech. 81	California Wildlife 4
Nat. Res. 109	Parks and Forests Law Enforcement 2
Nat. Res. 130	Wild Edible and Useful Plants 3
	TOTAL REQUIRED UNITS 20

#### PHILOSOPHY

REQUIRED COUR	RSES: UNITS
Philosophy 101	Introduction to Philosophy
Philosophy 104	Introduction to Logic
Math 104	Introduction to Logic
Philosophy 115 Philosophy 125	World Religions3Twentieth Century Philosophy3
History 104a	World Civilizations: to 1650 4
History 104b	World Civilizations: 1650 to Present 4
Psychology 130	Personal and Social Adjustment
Psychology 160	Personality Theory 3 or
Social Science 140	Human Sexual Behavior 3 or
Sociology 112	Family, Marriage, and the Individual 3
	TOTAL REQUIRED UNITS 18

#### PHYSICAL EDUCATION

S

REQUIRED COL	UNITS
P.E. 101	Introduction to Physical Education 2
P.E. 105	Personal Fitness Concepts and Evaluation 2.5
Biology 108	Fundamentals of Biology 3
Chemistry 100	Fundamentals of Chemistry 4
lealth Ed. 101	Health and Fitness Education
Health Ed. 110	Safety and First Aid Education 2
	TOTAL 16.5
MINIMUM OF 4	UNITS FROM:
P.E. 112	Theatre Production: Dance Emphasis 1-2
P.E. 116	Dance Production 3
P.E. 117	Choreography and Composition 3
P.E. 177	Introduction to Exercise Stress Testing 2.5
Biology 140	Introductory Human Anatomy 4
Biology 160	Introduction to Human Physiology 4
lealth Ed. 105	Consumer Health 2
lealth Ed. 113	Advanced First Aid and Emergency Care 3
	TOTAL REQUIRED UNITS 20.5

#### MAJORS

#### PSYCHOLOGY

REQUIRED COUL	RSES: UNITS
Psychology 101	General Psychology 3
Psychology 102	Current Issues in Psychology
Psychology 145a	Developmental Psychology
Psychology 145b	Developmental Psychology 3
Psychology 160	Personality Theory 3
	TOTAL 15
AND AT LEAST	5 UNITS FROM:
Psychology 125	Biofeedback and Self-Control 3
Psychology 130	Personal/Social Adjustment 3
Sociology 101	Introduction to Sociology 3

TOTAL REQUIRED UNITS 21

#### SCIENCE MAJOR

Philosophy 101

Anthro. 102

	EMPHASIS IN CHEMISTRY
REQUIRED COUL	RSES: UNITS
Chemistry 101a	General Chemistry 5
Chemistry 101b	General Chemistry 5
Biology 108	Fundamentals of Biology 3
Biology 111	Principles of Biology 4
Earth Science 114	Physical Geology 4
	or
Earth Science 142	Descriptive Astronomy 3
	and
Earth Science 143	Astronomy Laboratory 1
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 four-year school should also take Mathematics 120ab and Physics 120ab while at Columbia College.

#### SCIENCE MAJOR

#### **EMPHASIS IN EARTH SCIENCE**

REQUIRED COUL	RSES: UNITS
At least 10 units fr	om:
Earth Science 114	Physical Geology 4
Earth Science 139	Field Geology 1-3
Earth Science 142	Descriptive Astronomy 3 and
Earth Science 143	Astronomy Laboratory 1
Earth Science 161	Fund. of Meteorology 3
Plus:	
Biology 108	Fund. of Biology 3
	or
Biology 111	Principles of Biology 4
Chemistry 100	Fund. of Chemistry 4
	or
Chemistry 101a	General Chemistry 5
Physics 100	Conceptual Physics 3
	or
Physics 120a	General Physics 5
	TOTAL REQUIRED UNITS 20

Students planning to become Earth Science majors upon transfer to a four-year school should also take Chemistry 101ab, Mathematics 120ab, and Physics 120ab while at Columbia College.

#### MAJORS

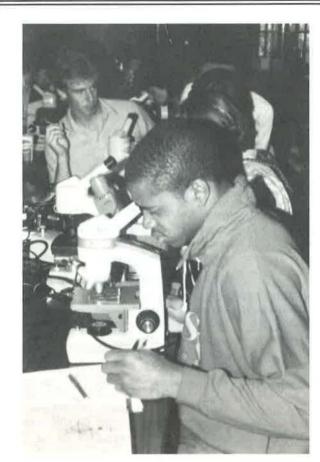


Photo by Dirk Travis

#### SCIENCE MAJOR **EMPHASIS IN ENVIRONMENTAL SCIENCE**

REQUIRED COUR	SES: UNITS
Natural Res. 100	Environmental Cons
Earth Sciences 114	Physical Geology 4
Physics 100	Conceptual Physics 3
Biology 111	Principles of Biology 4
	or
Biology 121	Principles of Plant Biology 4
	or
Biology 131	Principles of Animal Biology 5
Chemistry 100	Fundamentals of Chemistry 4
	ог
Chemistry 101a	General Chemistry 5
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 COUR	RSES: UNITS
Physics 120a	General Physics
Physics 120b	General Physics
Biology 108	Fundamentals of Biology
Biology 111	Principles of Biology
Chemistry 100	Fund, of Chemistry
Chemistry 101a	General Chemistry
Earth Science 114	Physical Geology
Earth Science 142	Descriptive Astronomy
Earth Science 143	Astronomy Laboratory
	TOTAL REQUIRED UNITS 2

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

#### SOCIOLOGY

REQUIRED COL	JRSES: UNITS
Sociology 101	Introduction to Sociology 3
Sociology 102	American Social Patterns 3
Sociology 110	Deviance and Conflict 3
Sociology 112	Family, Marriage, Individual 3
Sociology 127	Aging 3
Sociology 128	Death and Dying 3
	TOTAL DECLUDED LINUTS 19

TOTAL REQUIRED UNITS 18



Photo by Dirk Travis

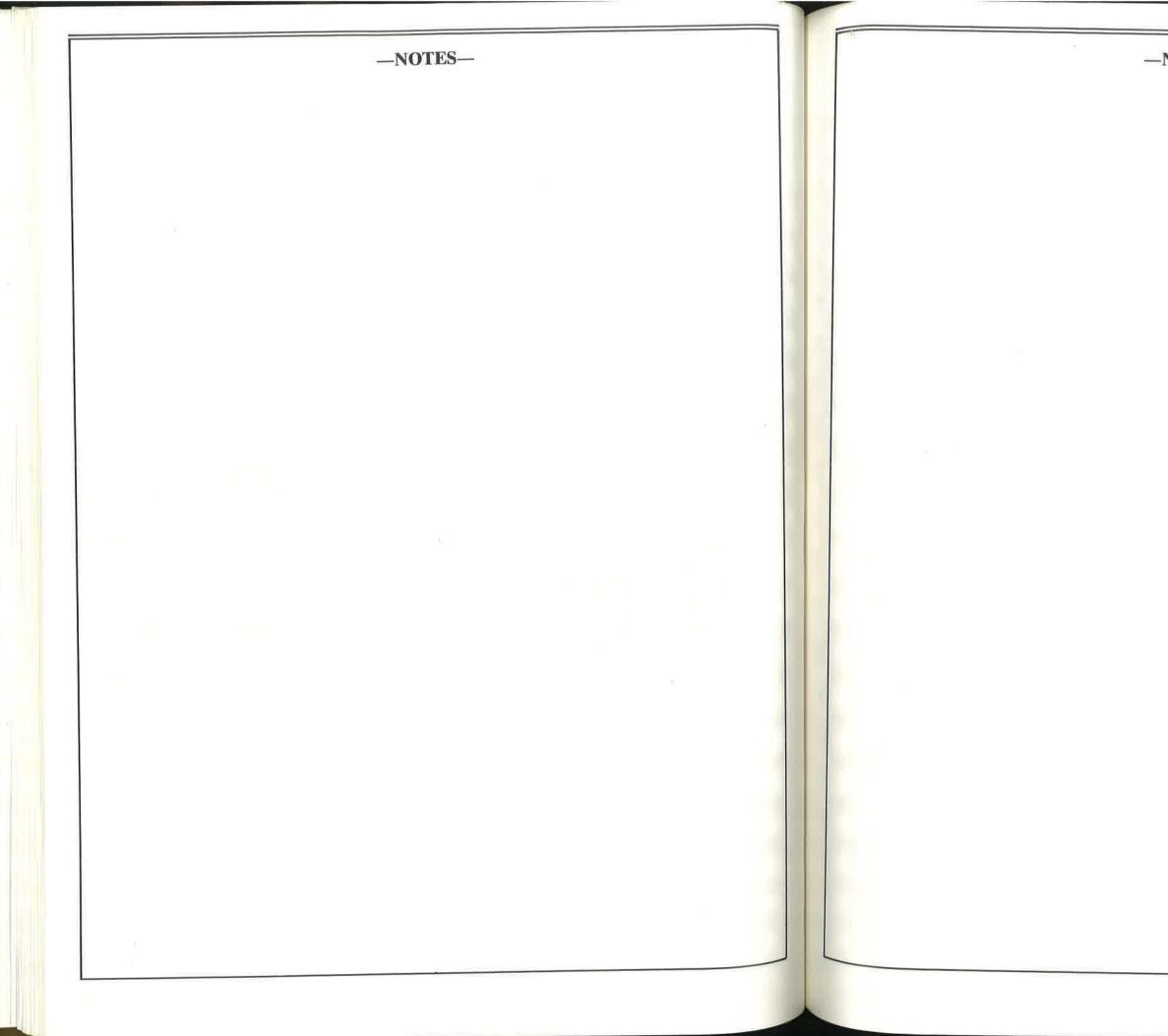
# LOWER DIVISION REOUIREMENTS AND UNIVERSITIES

Test Scores - Freshman and transfer applicants who **CALIFORNIA FOUR-YEAR COLLEGES** have fewer than 56 semester or 84 quarter units of transferable college work must submit scores, unless exempt, from either the Scholastic Aptitude Test of the College Board (SAT) or the American College Test Program (ACT). At San Luis Obispo, test scores are required of all transfer applicants. You may get registration forms and the dates for either test from the Student Services Office or Admissions and Records Office at Columbia College. 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. Detailed information will be mailed to you. English Placement Test (EPT) - Required of all new undergraduate students. Entry Level Mathematics (ELM) Test - Required of all new undergraduate students. See Page 37 for a list of General Education Breadth Requirements. Students who intend to transfer with junior status should complete these requirements. It is important that you consult the catalog of the college to which you plan to transfer for lower-division prerequisites for your major and that these requirements also be completed prior to transfer. Consult your advisor for assistance. A maximun of 70 semester units of community college credit will be accepted by a state university. Units in excess of 70 may be applied toward fulfillment of requirements in General Education Breadth Requirements, the major, or the minor if deemed appropriate by the university. **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. A student who was not eligible for direct admission to the University from high school may become eligible preparatory subjects in English and Mathematics after making up subject and/or grade deficiencies at and have completed appropriate college courses in Columbia College. the missing subjects, or Requirements for students who have attended a community college and who wish to be admitted to the quarter) units and have completed appropriate col-University in advanced standing differ according to high lege courses to make up any missing subjects in colschool record and year of high school graduation. lege preparatory English and Mathematics. (Nonresidents must have a 2.4 grade point average The University will not grant credit toward graduation or better.) for work completed in excess of 70 lower division Consult your Columbia College advisor for resemester units. quirements related to make-up of English and Graduation requirements may vary between the dif-Mathematics deficiencies with Columbia College ferent campuses of the University. Prospective transfer coursework. students should obtain a catalog from the campus to which they plan to transfer, and in consultation with their advisor, determine courses needed to fulfill requirements. The Career Center maintains University catalogs for student reference.

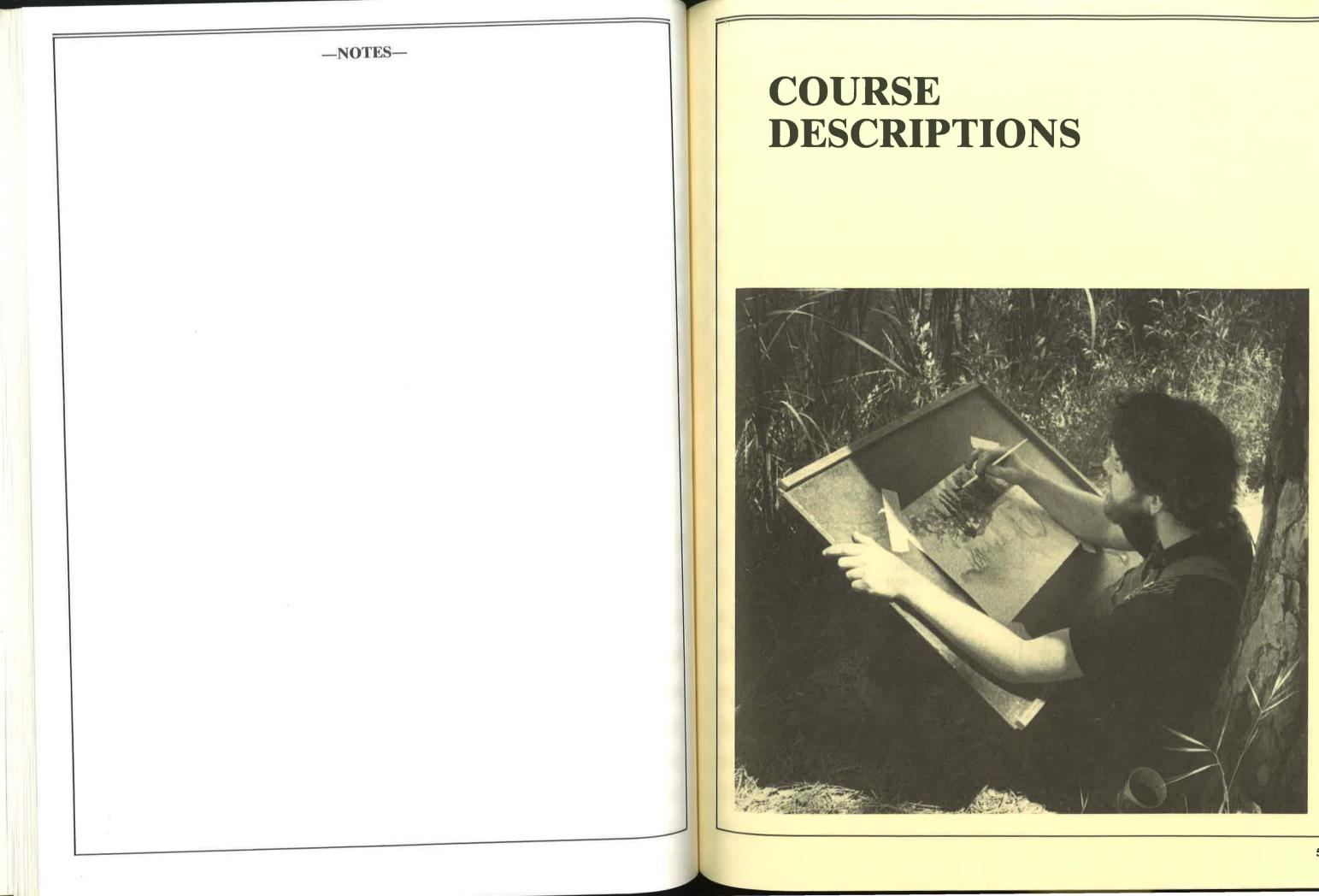
# CALIFORNIA STATE UNIVERSITY

Students should consult the latest catalog of the institution 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 advisors will help students select courses that fulfill both major and General Education Breadth Requirements. The responsibility for fulfilling requirements rests with the student. 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, Fresno California State University, Fullerton California 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: (a) were eligible as a freshman, or (b) were eligible as a freshman except for the college (c) have completed at least 56 transferable semester (84 For this requirement, transferable courses are those designated for that purpose by the college or university offering the courses.



-NOTES-



#### ANTHROPOLOGY

#### **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.

2. 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 reouirements.

- 3. 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.
- 4. 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 26 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.

#### **ANTHROPOLOGY**

# 101 INTRODUCTION TO 3 Units ANTHROPOLOGY: Physical Lecture: 3 hours

cture: 3 nours

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.

# 102 INTRODUCTION TO 3 Units ANTHROPOLOGY: Cultural 3 Units

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.

# 103CURRENT ISSUES3 UnitsIN ANTHROPOLOGY3

Prerequisite: Anthropology 101 or Anthropology 102 with a grade of "C" or better or consent of instructor. Lecture: 3 hours

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 AND SITE IDENTIFICATION

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

Field techniques in identifying, evaluating, recording archaeological sites. Emphasis California and Sierra prehistoric and histperiod sites.

#### 114 ARCHAELOGICAL EXCAVATION AND LABORATORY TECHNIQUES 11

Prerequisite: Anthropology 110 with a grade of "C" or be or concurrent enrollment or consent of instruct Laboratory: 3 hours

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

# 115 INDIANS OF NORTH AMERICA 3 Un

Lecture: 3 hours

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

#### ART

# 101BASIC FREEHAND DRAWING1.5-3 UniStudio: 3-6 hours1.5-3 Uni

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

#### 102 BASIC COLOR AND DESIGN Studio: 3-6 hours

IGN 1.5-3 Unit

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

#### **109a LIFE DRAWING: Beginning** 1.5-3 Unit Studio: 3-6 hours

Problems in figure drawing working from the undraped model. May be repeated one time.

## **109b LIFE DRAWING: Intermediate** 1.5-3 Units Studio: 3-6 hours

An extension of Art 109a emphasizing various media and compositional problems. May be repeated one time.

#### 111a HISTORY OF ART: Ancient and Medieval

3 Units

Lecture: 3 hours Survey of art history from the Paleolithic Age through the Late Gothic Era. Field trips may be required. ANTHROPOLOGY/ART

Unit	Instort OF AKI:	3 Units
L	Renaissance, Baroque, and Modern	JOINTS
better	Lecture: 3 hours	
uctor.	Survey of art history from the 15th thr	
and	20th centuries.	ough the
	Field trips may be required.	
on	e required.	
oric		
	121a PAINTING: Beginning	
	Studio: 3-6 hours	5-3 Units
	Deciencia i l	
Jnit	Basic principles, techniques, and material	s of easel
etter	painting in a variety of media.	
tor.	May be repeated one time.	
ues		
the	121b PAINTING: Intermediate	
the	Studio: 3-6 hours	5-3 Units
	Continuation of Art 121a with emphasis	on per-
nits	sonar expression.	-
	May be repeated one time.	
of		
nti-		
ays	123a WATERCOLOR: Beginning 1.5-	-3 Units
	Studio: 3-6 hours	-5 Units
es;	Introduction to the basic techniques and pr	
he	of transparent watercolors.	oblems
	May be	
	May be repeated one time.	
	123b WATERCOLOR: Intermediate 1.5-	2 1 1
	Studio: 3-6 hours	5 Onits
	Continuation of Art 123a introducing of watercolors and watercolors	opaque
ts	watercolors and various experimental tech	niques.
	May be repeated one time.	
r-		
n	105 10000	
	125 MIXED MEDIA PAINTING	1 Unit
	Studio: 2 hours	
	Introduction to special techniques inv	alut
s	creative mixtures of traditional media: pe	olving
.	ink over watercolor week all a line in a	n and
ıl	ink over watercolor wash, oil and acrylic in bination.	com-
-	omation.	
	121. CED 1.1	
s	131a CERAMICS: Introductory 1.5-3	Units
°	Studio: 3-6 hours	
	Introduction to basic ceramic methods incl	
-	hand-building and wheel-thrown forms, an	uding
	troduction to glozes and dealers and	id in-
	troduction to glazes and decoration.	
	131h CEDANGCA	
	131b CERAMICS: Advanced 1.5-3 [	Units
	Studio: 3-6 hours	
	Continuation of Art 131a with emphasis	
	Blaces, for mulation and application with the	
	opportunity for personal expression and	ased
	perimentation.	ex-
	permentation.	
		2 1 2
	121. CED 41400 5	
	131c CERAMICS: Special Problems 1.5-3 U	Inits
	Studio: 3-6 hours	1110
	An extension of Art 131a and Art 131b.	
	May be repeated one time.	
	printed one time.	

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135	INTRODUCTION 1.5-3 Units TO RAKU	167b TEXTILE DESIGN: 1.5 Units Advanced
	Prerequisite: Art 131a recommended Studio: 3-6 hours	Prerequisite: Art 167a with a grade of "C" or better or consent of instructor
	Introduction to raku process, historic origins and contemporary uses. Practical experience in clay bodies, glazes, and raku firing.	Studio: 3 hours Continuation of Art 167a with emphasis on creative design. Introduction to floor loom. May be repeated two times.
137	INTRODUCTION TO 1.5-3 Units PRINTMAKING Studio: 3-6 hours	171a CERAMIC SCULPTURE: 1.5-3 Units Introductory Studio: 3-6 hours
	Introduction to basic intaglio and relief printmak- ing procedures, including etching, engraving, col- lograph, linocut, and woodcut.	Basic principles, techniques, and problems of sculpture.
		171b CERAMIC SCULPTURE: 1.5-3 Units Advanced
150a	COMMERCIAL FREEHAND 2 Units LETTERING: Beginning Lecture: 1 hour Studio: 2 hours	<i>Studio: 3-6 hours</i> Continuation of Art 171a emphasizing advanced problems and techniques in sculpture.
	Introduction to freehand lettering and calli- graphy; practice in the three major calligraphic styles of sign writing and commercial lettering;	171c CERAMIC SCULPTURE: 1.5-3 Units Special Problems Studio: 3-6 hours
1506	Roman, Gothic, and script technique emphasis.	Continuation of Art 171b with emphasis on experimentation and development of personal expression.
1500	COMMERCIAL FREEHAND2 UnitsLETTERING: Intermediate	May be repeated one time.
	Prerequisite: Art 150a with a grade of "C" or better or consent of instructor.	172 METAL SCULPTURE 1-3 Units
	Lecture: 1 hour Studio: 2 hours	Studio: 3-6 hours Introduction to various metal-working techniques
	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.	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.
1538	SILKSCREEN PRINTMAKING: 1.5-3 Units Beginning	
	Studio 3-6 hours Introduction to basic silkscreen printmaking using	
	various stencil techniques.	Photography
153b	SILKSCREEN PRINTMAKING: 1.5-3 Units Advanced	141a PHOTOGRAPHY: Beginning3 UnitsLecture: 2 hours
	Auvanced Prerequisite: Art 153a with a grade of "C" or better or consent of instructor Studio: 3-6 hours	Laboratory: 3 hours Introduction to history, development, and capabilities of the art/science of photography and
	An extension of Art 153a with emphasis on ex-	elementary procedures with camera and in darkroom.
	perimentation and self-expression. Advanced techniques with stencils, color, inks, photographic materials and special problems.	Field trips may be required.
		141b PHOTOGRAPHY: Intermediate 3 Units Prerequisite: Art 141a with a grade of "C" or better or consent of instructor
167a	TEXTILE DESIGN 1.5 Units Introductory	Lecture: 2 hours Laboratory: 3 hours
	Studio: 3 hours	Expansion of previous knowledge stressing creative expression through a variety of
	Introduction to basic textile design. Problems and techniques of the fiber arts. May be repeated one time.	photographic techniques. Field trips may be required

# 141c PHOTOGRAPHY: Advanced

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

Laboratory: 3 hours

Continuation of Art 141b with further attention practical and aesthetic zone system techniques an advanced negative and printmaking methods. Pa ticular attention will be paid to medium and larg format photography. Emphasis on visual literact element of design, composition, and semeiology Field trips may be required.

#### **142 COLOR PHOTOGRAPHY:** Slide Making and Positive Printing

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

Lecture: 2 hours Laboratory: 3 hours

Development and printing of color slides. Include the history and theory of color photography, an analysis of color films, color balance, exposure latitude, film speed, pushed processing, positive to positive printing, print display and critique. Field trips may be required.

#### **142b COLOR PHOTOGRAPHY** The Color Negative

3 Units

Prerequisite: Art 142 with a grade of "C" or better or consen of instructor Lecture: 2 hours

Laboratory: 3 hours

Development and printing of color negatives. Course includes instruction in the procedures of most typical color negative printing processes as well as recent developments in the medium. Field trips may be required.

#### 144 ADVANCED PHOTOGRAPHY LABORATORY

1 Unit

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

Continued exercise of darkroom skills in the production of negatives, slides, and prints. May be repeated one time.

#### 145 FIELD PHOTOGRAPHY

1-2 Units

Lecture: .5-1 hour Laboratory: 1.5-3 hours The art of producing professional quality nature photographs. Field instruction in locations of natural beauty. Lectures, demonstrations, and critique sessions.

3 Units er, Art 102	148SPECIAL TOPICS1-4 UnitsIN PROTOCOLONY1-4 Units
better.	IN PHOTOGRAPHY
	Prerequisite: Will vary according to topic scheduled Lecture: .5-2 hours and/or
ention to	Laboratory: 1.5-6 hours
ques and	Various field and studio-oriented courses limited
ods. Par-	to particular photographic topics such as slide-
ind large	tape presentations, landscape, architecture, por-
literacy,	traiture, nude, product and still-life photography,
eiology.	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.
3 Units	
or consent	
or consent	
	<b>AUTOMOTIVE TECHNOLOGY</b>
ncludes	See Page 31-32 for Certificate Requirements
phy, an	55 AUTOMOTIVE SERVICE
xposure sitive to	55 AUTOMOTIVE SERVICE 1 Unit EXCELLENCE TEST PREPARATION
e.	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
3 Units	transmissions, drive train and axles, heating and
5 Units	air conditioning) may be covered depending upon
r consent	the students' interest. Pretests will be given to
	determine students' readiness for taking the ex- amination.
gatives.	101 INTRODUCTION TO AUTOMOTIVE 1 Unit
ures of	TECHNOLOGY Lecture: 1 hour
sses as	Theory of operation of automobile systems. Fun-
	damentals of math, micrometers, fasteners, shop
	safety and tools will be covered.
	Offered for Credit/No Credit only
1 Unit	Lecture: .5 hour
	Laboratory: 1.5 hours
r or Art or better	Preventive maintenance procedures, emphasis on
n beller	lubrication and safety inspection as well as record
	keeping.
е рго-	112 PULLING AND INSTALLING
	ENGINES 1 Unit
	Lecture: .5 hour
	Laboratory: 1.5 hours
	Practical experience in pulling and installing
Units	engines.
Onits	114 MACHINE SHOP PROCEDURES
	2 Units
ature	Lecture: 1 hour Laboratory: 3 hours
ns of	Practical experience in head, block service, and
	common machine ale and include, block service, and
and	common machine snop procedures used in repair
and	common machine shop procedures used in repair shops.

#### AUTOMOTIVE TECHNOLOGY

116ENGINE REBUILDING4 UnitsPrerequisite: Auto. Tech. 101 with trade of "CR" and Auto. Tech. 114 with a grade of "C" or better or consent of instructorLecture: 2 hours Laboratory: 6 hours Techniques involved in engine rebuilding.	123 COMPUTERIZED ENGINE       1 Unit         CONTROL (FORD)       Lecture: .5 hour         Laboratory: 1.5 hours       Operation and diagnosis of Ford computerized engine control systems.	144a FRONT-END AND SUSPENSION       2 Un         Lecture: 1 hour       2 Un         Laboratory: 3 hours       2 Un         Fundamentals and theory of automotive suspensions       3 hours         Giagnosis, inspection and repair of alignment proclems, including wheel balancing and tire proclems       3 hours
117a CARBURETION SYSTEMS2 UnitsLecture: 1 hour Laboratory: 3 hours2 UnitsTechniques and procedures for overhaul and service of carburetor and accessories. Fuel injection service is also covered.	125ELECTRONIC FUEL INJECTION1 Unit (GENERAL MOTORS)Lecture: .5 hour Laboratory: 1.5 hours Operation and diagnosis of General Motors fuel injected engines.	144b FRONT-END AND SUSPENSION 2 Uni Prerequisite: Auto. Tech. 144a with a grade of "C; or beta or consent of instructor Lecture: 1 hour Laboratory: 3 hours Front-end and suspension rebuilding an
117b ELECTRO MECHANICAL1 UnitCARBURETORSPrerequisite: Auto. Technology 117a with a grade of "C" or better or consent of instructor.Lecture: .5 hour Laboratory: 1.5 hoursPrinciples and operations of carburetors used with General Motors and Ford computerized fuel systems including diagnosis, rebuilding and on- and-off car adjustments.	<b>130 MANUAL TRANSMISSION</b> 1 Unit <b>REBUILDING</b> <i>Lecture: .5 hour</i> <i>Laboratory: 1.5 hours</i> Principles and operation of automotive power trains including diagnosis and overhaul of clut- ches, manual transmission, overdrives, and transfer cases.	<ul> <li>maintenance. Rear axle alignment is included.</li> <li>150a VEHICLE ELECTRICITY: 2 Unit Electrical Theory         <ul> <li>Lecture: 1 hour</li> <li>Laboratory: 3 hours</li> <li>Fundamentals of electricity that apply to all electrical systems.</li> </ul> </li> <li>150b VEHICLE ELECTRICITY: 2 Unit Cleaned and the systems.</li> </ul>
<b>118 EMISSION CONTROL</b> 1 Unit Lecture: .5 hour Laboratory: 1.5 hours Installation, operation and repair of automotive pollution control devices. State and federal regula- tions are also covered.	<ul> <li>134 AXLES AND DRIVE LINES 1 Unit 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.     </li> </ul>	Charging Sytems Prerequisite: Auto. Tech. 150a with a grade of "C" or bette or consent of instructor Lecture: 1 hour Laboratory: 3 hours Diagnosis and repair of the battery and charging systems.
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 equip- ment.	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.	<i>and Ignition Systems</i> <i>Prerequisite: Auto. Tech. 150a with a grade of "C" or better</i> <i>or consent of instructor</i> <i>Lecture: 1 hour</i> <i>Laboratory: 3 hours</i> Diagnosis and repair of starting systems, magnetos and battery ignition systems.
119b ADVANCED GASOLINE2 UnitsENGINE TUNE-UPPrerequisite: Auto Technology 119a with a grade of "C" or better or consent of instructorLecture: 1 hour Laboratory: 3 hoursDiagnosis and trouble-shooting of ignition systems using the oscilloscope, infared and other specialized tune-up equipment.	<ul> <li>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.</li> <li>140a BRAKES: Drum 2 Units</li> </ul>	<ul> <li>150d VEHICLE ELECTRICITY: Lighting 2 Units and Chassis Electrics         Prerequisite: Auto. Tech. 150a with a grade of "C" or better or consent of instuctor         Lecture: 1 hour         Laboratory: 3 hours         Diagnosis and repair of headlamp, stoplight, turn signals, as well as fuse box, trailer wiring, gauges.     </li> <li>162 AIR CONDITIONING 1 Unit</li> </ul>
120 COMPUTERIZED (1 Unit ENGINE CONTROLS (GENERAL MOTORS) Lecture: .5 hour Laboratory: 1.5 hours Operation and diagnosis of domestic computeriz- ed engine control systems.	Lecture: 1 hour Laboratory: 3 hours Principles of operation of automotive drum brakes, including diagnosis and overhaul techni- ques.	Lecture: .5 hour Laboratory: 1.5 hours Understanding the principles and operation of air conditioning, as well as the techniques of recharg- ing, diagnosis and service.
121 ELECTRONIC FUEL       1 Unit         INJECTION (FORD)       1 Unit         Lecture: .5 hour       1 Unit         Laboratory: 1.5 hours       1 Operation and diagnosis of electronic fuel injected engines. Emphasis on Ford systems.	140b BRAKES: Disc1 UnitPrerequisite: Auto. Tech. 140a with a grade of "C" or better or consent of instructorLecture: 5 hoursLaboratory: 1.5 hoursService procedures, including overhaul techniques of disc brakes.	170a PRACTICAL LABORATORY       1-2 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.       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.

	AUTOMOTIVE TECHNOLOGY/BIOLOGY
AND SUSPENSION2 Unitsrsand theory of automotive suspen- teering systems. Adjustments, ction and repair of alignment prob- g wheel balancing and tire prob-AND SUSPENSION2 UnitsTech. 144a with a grade of "C; or better msent of instructorrsd suspension rebuilding and ear axle alignment is included.CTRICITY:2 Unitsrsf electricity that apply to all elec-CTRICITY:2 Unitssrech. 150a with a grade of "C" or better	<ul> <li>170b PRACTICAL LABORATORY         <ul> <li>1-2 Units</li> <li>Prerequisite: Auto. Tech. 170a with a grade of "C" or better or consent of instructor</li> <li>Laboratory: 3-6 hours</li> <li>Continuation of Automotive Technology 170a.</li> </ul> </li> <li>170c PRACTICAL LABORATORY         <ul> <li>1-2 Units</li> <li>Prerequisite: Auto. Tech. 170b with a grade of "C" or better or consent of instructor</li> <li>Laboratory: 3-6 hours</li> <li>Continuation of Automotive Technology 170a.</li> </ul> </li> <li>170c PRACTICAL LABORATORY         <ul> <li>1-2 Units</li> <li>Prerequisite: Auto. Tech. 170b with a grade of "C" or better or consent of instructor</li> <li>Laboratory: 3-6 hours</li> <li>Continuation of Automotive Technology 170b.</li> </ul> </li> <li>170d PRACTICAL LABORATORY         <ul> <li>1-2 Units</li> <li>Prerequisite: Auto. Tech. 170c with a grade of "C" or better or consent of instructor</li> <li>Laboratory: 3-6 hours</li> <li>Continuation of Automotive Technology 170b.</li> </ul> </li> <li>170d PRACTICAL LABORATORY         <ul> <li>1-2 Units</li> <li>Prerequisite: Auto. Tech. 170c with a grade of "C" or better or consent of instructor</li> <li>Laboratory: 3-6 hours</li> <li>Continuation of Automotive Technology 170c.</li> </ul> </li> <li>172 SPECIAL TOPICS IN         <ul> <li>S-3 Units</li> <li>AUTOMOTIVE TECHNOLOGY</li> <li>Lecture: .5-3 hours</li> <li>and/or</li> <li>Laboratory: 1.5-3 hours</li> <li>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.</li> </ul></li></ul>
epair of the battery and charging <b>CTRICITY: Starting</b> 2 Units <b>tems</b> Fech. 150a with a grade of "C" or better ent of instructor repair of starting systems, ttery ignition systems. <b>TRICITY: Lighting</b> 2 Units <b>trics</b> ech. 150a with a grade of "C" or better	May be repeated three times. <b>179</b> WORK EXPERIENCE IN 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 1 unit of credit 60 hours unpaid employment equals 1 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.
nt of instuctor	

#### BIOLOGY

# 58 BIRDS OF THE MOTHER LODE

1.5 Units

Lecture: 1 hour Laboratory: 1.5 hours

A survey of the birds of the Mother Lode area 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 may be required. May be repeated one time.

#### BIOLOGY

59

68

LOG	Y	_	
1	WILDFLOWERS OF 1-1.5 Units THE MOTHER LODE Lecture: 1-1.5 hours An introduction to the Mother Lode flora. A non- technical 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.		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 an emphasis on plant anatomy, morphology, physiology, and systematics of fungi, vascular, and vascular plants are studied. Field trips may be required.
	<b>BIRDS OF THE SIERRA NEVADA</b> 1 Unit Laboratory: 3 hours 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.		PLANT TAXONOMY 2 Units OF THE SIERRA NEVADA Lecture: 1 hour Laboratory: 3 hours A study of the flora of the Sierra Nevada with em- phasis 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.
108	<b>FUNDAMENTALS OF BIOLOGY</b> 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.)	131	<ul> <li>PRINCIPLES OF ANIMAL BIOLOGY 5 Units</li> <li>Prerequisite: Biology 111 with a grade of "C" or better or consent of instructor</li> <li>Lecture: 3 hours</li> <li>Laboratory: 6 hours</li> <li>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.</li> </ul>
109	FUNDAMENTALS OF BIOLOGY1 UnitLABORATORYPrerequisite: Concurrent enrollment in Biology 108Laboratory: 3 hoursAn optional laboratory to be taken concurrentlyWith Biology 108; designed to complement and amplify Biology 108 which is the lecture portion of the course.Field trips are required.	139	<ul> <li>Field trips are required.</li> <li>FIELD BIOLOGY <ol> <li>Prerequisite: A previous course in Biology recommended</li> <li>Lecture: 1-2 hours.</li> </ol> </li> <li>A lecture field course in biology to be held in natural surroundings. The site will vary with the seasons. Natural history, ecology, and biology of the locale will be studied.</li> <li>May be repeated two times.</li> </ul>
111	<ul> <li>Prerequisite: One year of high school chemistry with a "B" average or Chemistry 100 recommended.</li> <li>Lecture: 3 hours</li> <li>Laboratory: 3 hours</li> <li>A principles course emphasizing certain molecular and cellular biology. Special reference given to the chemical composition of life, cellular structure, photosynthesis, respiration, heredity, and interaction of life with the physical environment. Design-</li> </ul>	140	INTRODUCTORY HUMAN4 UnitsANATOMYPrerequisite: 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 instructorLecture: 3 hours Laboratory: 3 hoursA survey course in human anatomy with special emphasis on skeletal, muscular, circulatory, respiratory, and nervous systems.
120	ed for Life Science and related majors. Field trips may be required. FUNDAMENTALS OF 2 Units PLANT BIOLOGY	160	INTRODUCTION TO 4 Units HUMAN PHYSIOLOGY 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

nervous and endocrine systems.

A survey course in human physiology with special

emphasis upon digestive, reproductive, muscular,

165 MICROBIOLOGY

4 Units

Prerequisite: Biology 108 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 32 for Certificate Requirements

#### PEGBOARD PAYROLL SYSTEM 1 Unit 58 Lecture: 1 hour

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

#### 60a BOOKKEEPING

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.

Lecture: 1 hour Laboratory: 3 hours A survey course in botany. Topics discussed in-

clude anatomy, physiology, ecology, horticulture, and relationships of plants to human history. Field trips may be required.

#### 63 **BUSINESS MATHEMATICS**

#### Lecture: 3 hours

Mathematical problems of buying, selling, interest, discounts, insurance, commissions, payrolls, depreciation, and taxes.

#### THE METRIC SYSTEM 65

Lecture: 1 hour

An entertaining 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**

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 control; 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**

Lecture: 3 hours

Historical development of common law; statutes of California; federal and state court decisions; legal aspects of business; law of contracts, agency and employment.

#### **115b COMMERCIAL LAW**

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

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**

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.

3 Units

3 Units

3 Units

3 Units

3 Units

1 Unit

3 Units

3 Units

#### BUSINESS ADMINISTRATION/OFFICE OCCUPATIONS

#### **103a ACCOUNTING** Lecture: 4 hours

#### 4 Units

4 Units

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**

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** 1-4 Units **BUSINESS AND COMMERCE**

Prerequisite: Employment must be approved by a 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 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 35-36 for Certificate Requirements

#### 52 COMPUTER KEYBOARDING/ 1 Unit **TYPEWRITING**

#### Lecture: 1 hour

Designed for students wishing to master the touch method of keyboarding on computers or electric typewriters. IBM personal computers will be utilized, but no computer experience is required. Students may receive credit for either Office Occupations 102 or Office Occupations 101a, but not both.

#### WORD PROCESSING FOR 1 Unit 53 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.

1 Unit 56 TYPING SPEED AND **ACCURACY BUILDING** Prerequisite: Beginning typing skill Laboratory: 3 hours (Self-paced)

Speed building and accuracy on straight copy, rough draft and statistical writing, intensified drills, timed writings and remedial work. May be repeated 3 times.

60 **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 speed-

**BUSINESS ENGLISH** 3 Units 65 Lecture: 3 hours

business, including skills of written communication, sentence structure, punctuation, spelling, and use of the dictionary.

#### 3 Units **BUSINESS CORRESPONDENCE** 68 Lecture: 3 hours

Effective business practices in the construction of sentences, paragraphs, and letters; the writing of effective business letters such as sales, applications, orders, requests, adjustments, refusals, credit and collection.

#### **REPORT WRITING** 2 Units 70

Lecture: 2 hours Study and practice of the skills necessary to write well-organized reports.

#### **101a KEYBOARDING**

1 Unit

2 Units

Laboratory: 3 hours (Self-paced) Designed to prepare students to use the electric typewriter by touch. Emphasizes keyboard instruction and speed development.

#### **101b BASIC TYPING APPLICATIONS**

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)

Emphasizing typing accuracy, speed building, and preparation of 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, and business forms.

#### **104 ADVANCED TYPING**

Prerequisite: Office Occupations 103 with a grade of "C" or better or typing rate of 45 words per minute or consent of instructor

Lecture: 2 hours Laboratory: 3 hours (Self-paced)

Further development of speed and accuracy; study of business forms, advanced tabulated material, legal forms, typing for reproduction, and special problems in letter placement.

#### **160 BEGINNING** WORD PROCESSING

2 Units

1 Unit

3 Units

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

Using a microcomputer, students will receive hands-on instruction for operating word processing programs. Instruction will include keyboardding, storing, retrieving, editing and printing information.

#### **108 MEMORY TYPEWRITER**

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

Instruction on the electronic typewriter including document and phrase storage, revisions, storage procedures, tabulations, and repetitive documents.

#### **109 INTERMEDIATE** WORD PROCESSING

2 Units

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

Lecture: 1 hour Laboratory: 3 hours

Use a stand-alone word processor and microcomputer in advanced document production techniques including local and global search, merging, document assembly, and records processing. May be repeated two times.

building activities.

The mechanics of English as applied to the field of

	Lecture: 4 hours
	Presentation of ABC shorthand theory. The
	system utilizes alphabetical abreviations instead of
	Gregg symbols. Students should be able to take
	dictation from 60 to 80 words per minute upon
	completion from ou to so words per minute upon
	completion.
112	<b>INTERMEDIATE SHORTHAND</b> 4 Units
114	4 Units
	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. Training in the fundamentals of
	transcription and speed-building activities leading
	to a writing skill of up to 100 words a minute.
	to a writing skin of up to 100 words a minute.
130	FILING SYSTEMS AND 2 Units
	RECORDS MANAGEMENT
	Lecture: 2 hours
	Study of alphabetic, numeric, geographic, and-
	subject filing systems; management and control of
	business records including card and visible
	records, correspondence and non-corres-
	pondence records and micrographics.
	pondence records and incrographics.
132	MACHINE TRANSCRIPTION 2 Units
	Prerequisite: Office Occupations 103 with a grade of "C" or
	better or equivalent experience
	Lecture: 1 hour
	Laboratory: 3 hours (Self-paced)
	Study and use of various transcribing machines,
	emphasizing preparation of business documents.
	emphasizing preparation of ousiness documents.
136	ELECTRONIC PRINTING 1 Unit
	CALCULATORS
	Laboratory: 3 hours (Self-paced)
	Practical instruction in the operation of the elec-
	tronic printing calculator, emphasizing business
	applications.
38	OFFICE PROCEDURES 3 Units
	Prerequisite: A grade of "C" or better in Office Oc. 103 or
	Office Oc. 106 or consent of instructor
	Lecture: 3 hours
	General office duties and procedures as well as of-
	fice etiquette and dress. Designed to acquaint the
	student with the duties and responsibilities of an
	office worker from the intermediate typist to ad-
	ministration and the intermediate typist to ad-
	ministrative assistant. Emphasis on human rela-
	tions, handling mail, telephone techniques, travel
	arrangements, financial data, and job search skills
	and applications.
40	MEDICAL TERMINOLOGY 3 Units
	Lecture 3 hours
	An introduction to basic medical word structure
	including word roots, prefixes and suffixes used in
	medical vocabulary by allied health field
	members.

## **110 ABC BEGINNING SHORTHAND**

Prerequisite: Typing rate of 30 words per minute

4 Units

**OFFICE OCCUPATIONS** 

#### **142a MEDICAL TRANSCRIPTION**

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)

2 Units

2 Units

3 Units

1-4 Units

Development of skills for medical transcription in physicians' offices, clinics, hospitals and related allied health field positions. Students will type history, physical, and 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; surgery reports and discharge summaries.

#### **144 MEDICAL INSURANCE**

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/ 2 Units 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)

Training for the specialized area of the legal office. Development of legal terminology; transcription of legal documents and correspondence; use of legal reference materials.

#### **157 LEGAL OFFICE PROCEDURES**

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

Lecture: 3 hours

Designed to train the student for employment as a secretary in a law office. Specialized training in knowledge and skills required of legal secretaries including preparation of legal papers and court documents, assistance in legal research, bookkeeping and filing in a law office.

#### **179 WORK EXPERIENCE IN OFFICE OCCUPATIONS**

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 36 for Certificate Requirements **REAL ESTATE EXAM** 1 Unit 60 PREPARATION 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** 3 Units 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 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** 3 Units **REAL ESTATE** Prerequisite: Real Estate 101 with a grade of "C" or better or consent of instructor Lecture: 3 hours 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 Lecture: 3 hours Appraisal of residential and commercial properties, methods and techniques for determining 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, in-

dustrial, and residential properties, urban

development and renewal; regulation of land uses.

**160 SPECIAL TOPICS IN REAL ESTATE** 

.5-3 Units

#### 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** 60 .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.

#### 71 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 FUNDAMENTALS 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

Laboratory: 3 hours

Fundamental theories and principles of chemistry; atomic and molecular structure, chemical and physical changes, solutions, colloids, gases, 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**

Prerequisite: Chem. 101a or equivalent with a grade of "C" or better or consent of instructor Lecture: 4 hours

5 Units

Laboratory: 3 hours

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

3 Units

3 Units

REAL ESTATE/CHEMISTRY/CHILD DEVELOPMENT

#### **CHILD DEVELOPMENT**

#### **101 PRINCIPLES OF CHILD** DEVELOPMENT

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

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**

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**

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**

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**

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.

#### 2 Units

1 Unit

1.5 Units

1.5 Units

#### 115 OBSERVATION AND PARTICIPATION

1-3 Units

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.

#### 1 Unit 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.

#### 2 Units 119 SPECIAL NEEDS CHILDREN, 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. Field trips to programs and agencies 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.

#### 3 Units

127 SCHOOL AGE CHILDREN 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 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.

3 Units

#### 1-4 Units **179 WORK EXPERIENCE IN** CHILD DEVELOPMENT

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 32-33 for Certificate Requirements

#### EDUCATIONAL APPLICATIONS 1 Unit 66 **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 programming, and communications.



Photo by Dirk Travis

2 Units

#### 103 COMPUTER OPERATING SYSTEMS 1 U

Prerequisite: One year of high school algebra or Mathema 55 or consent of instructor Lecture: .5 hour

#### Laboratory: 1.5 hours

An introduction to the use of computer operation systems, including hardware and software. E phasis is on the use of menus, applications pr grams, storage management, operating syste design, and general machine familiarity. Top include concepts applicable to small business home computers which use a popular type operating system.

#### 107 DATE FILE APPLICATIONS 1UWITH MICROCOMPUTERS

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

Lecture: .5 hour

Laboratory: 1.5 hours

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

#### **110a BEGINNING COMPUTER** SPREADSHEETS

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

Lecture: .5 hour

Laboratory: 1.5 hours

A common spreadsheet such as Supercal Visicalc, or Lotus 1-2-3 will be used. Hands-on e perience with the computer to manage and proje cash flow, maintain financial statements, and learn other ledger type applications of a comput spreadsheet.

#### **110b ADVANCED COMPUTER SPREADSHEETS**

1 UI

Prerequisite: Computer Science 110a with a grade of "C' better or consent of instructor

#### Lecture: .5 hour Laboratory: 1.5 hours

Instruction and practice in using advance features of a common spreadsheet such as Supe calc, Visicalc, or Lotus 1-2-3. Simple application will be reviewed. Advanced topics include programmed execution, rearranging data, and the u of special features which simplify business ar mathematical accounting processes. A personali ed project will be required. Students will e perience use of the spreadsheet program on the computer.

1 Unit hematics	120	BASIC PROGRAMMING 3 Units 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 instructor
erating		Lecture: 2 hours
e. Em-		Laboratory: 3 hours
is pro-		BASIC language syntax is used to study program-
system		ming logic, includes concepts of hierarchy,
Topics		flowcharting, interactive input, analytic ap-
ness or		proaches to processing data and creating reports,
ype of	1	valid and invalid logic structures, logical
JPC OI	7	operators, comparisons, arithmetic operations,
		loop structures, arrays, search logic, sorting
		techniques, sub-routines, modular and top-down
		program design, and string processing.
1 Unit		
"C" or		
grade of	121	DATA FILE PROGRAMMING 3 Units
	121	WITH BASIC
		Prerequisite: Computer Science 120 with a grade of "C" or
nt pro-	1	better plus 2 years of high school algebra or
a Base		Math. 101 with a grade of "C" or better or con-
nclude		sent of instructor
iles on		Lecture: 2 hours
es will		Laboratory: 3 hours
ta, and		Advanced techniques of programming in BASIC
ion.		language, including disc operation and file
1011.		management, optimization of core usage, algorithm efficiency, and advanced I/O com-
		mands.
		manus.
1 Unit		
"C" or	105	DAGGAL DROCDAMMING L 2 Units
grade of	125	PASCAL PROGRAMMING I 3 Units
		Prerequisite: Two years high school algebra or Math. 101; Computer Science 101 and Computer Science
		103, both with a grade of "C" or better or con-
ercalc,		sent of instructor
-on ex-		Lecture: 2 hours
project		Laboratory: 3 hours
and to		Structured programming in the PASCAL
nputer		language. Emphasis on writing, executing and
		modifying programs that conform to industry
		standards. Topics will include structured software
		development and maintenance utilizing PASCAL
		language techniques for logical operations, branch- ing, and file management.
1 Unit		ing, and the management.
"C" or	h	
	100	DASCAL BROOD ANNUNCH
	126	PASCAL PROGRAMMING II 3 Units
vanced		Prerequisite: Computer Science 125 with a grade of "C" or better or consent of instructor
Super-		Lecture: 2 hours
ations		Laboratory: 3 hours
e pro-		Continuation of Computer Science 125, PASCAL
he use		Programming I, and program design. Topics in-
s and	00	clude array and string processing, data structures,
onaliz-		records, search/sort techniques, file pointers,
ill ex-		linked lists, and advanced language syntax. Em-
on the		phasis will be on structured and modular program
		design.

#### COMPUTER SCIENCE/CONSTRUCTION/DRAFTING

#### 127 FORTRAN PROGRAMMING

Prerequisite: Two years high school algebra or Math. 101 with a grade of "C" or better; and Computer Science 101 and Computer Science 103, both with a grade of "C" or better or consent of instructor Lecture: 2 hours

3 Units

3 Units

3 Units

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 structured design.

#### 129 COBOL PROGRAMMING

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

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.

## 140ASSEMBLY LANGUAGE3 UnitsPROGRAMMING3

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 machine language or assembly language instructions utilizing an editor to enter assembly language programs or subroutines. Programs will be assembled, linked and executed. Preliminary study will include machine logic configuration and external number/ character representation.

#### 145 COMPUTER PROGRAMMING: 3 Units APPLICATIONS

Prerequisite: One programming language course or consent of instructor

Lecture: 2 hours

Laboratory: 3 hours

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. *May be repeated one time.* 

#### 155 DATA BASE MANAGEMENT 3 Units

Prerequisite: Computer Science 107, 120, 125, 127, 129 or 132 with a grade of "C" or better or consent of instructor Lecture: 2 hours

Laboratory: 3 hours

Study of data base information systems and applications on a computer. Topics include lists, tree structures, access methods, report generation, sorting, merging, searching, spooling, and queues.

#### CONSTRUCTION

#### **Construction Technology**

## 101 INTRODUCTION TO RESIDENTIAL CONSTRUCTION 3 Units Lecture: 3 hours 3 Units

An introductory course designed to provide a basic understanding of residential construction

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

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 3 Units

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

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 stressed, geometric figures, orthgraphic projections, dimensioning.

3 Units

3 Units

#### 110b BASIC DRAFTING

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

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

3 Units

3 Units

3 Units

3 Units

3 Units

3 Units

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

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

Lecture: 2 hours Activity: 2 hours

Techniques in reading literature aloud; understanding and interpreting prose, poetry, and dramatic selections; oral presentation, and expression of thought.

#### 122 INTRODUCTION TO READERS' THEATRE

Activity: 2 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** Lecture: 3 hours

Lecture: 2 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

Lecture: 2 hours

Activity: 2 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 Prerequisite: Drama 143a with a grade of "C" or better or consent of instructor

Lecture: 2 hours Activity: 2 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 1-3 Units 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: I hour, Laboratory: 3 hours equals 2 units of credit Lecture: I hour, Laboratory: 6 hours equals 2 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 3 times.

#### **145 IMPROVISATION**

Lecture: 2 hours Activity: 2 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 Activity: 2 hours

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

#### 156 TECHNICAL THEATRE 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**

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.

3 Units

3 Units

1-3 Units

4 Units

		-	
160 FALLON REPERTORY THEATRE & Units Prerequisite: Drama 143a, Drama 143b or Drama 158 with a grade of "C" or better and/or audition and con- sent of instructor Lecture: 3 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 ac- tivities as assigned. EARTH SCIENCE	<ul> <li>139 FIELD GEOLOGY <ol> <li>Prerequisite: A previous course in Earth Science is desirable Lecture: .5-1.5 hours</li> <li>Laboratory: 1.5-4.5 hours</li> <li>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 post- classroom sessions. May be repeated two times.</li> </ol> </li> <li>142 DESCRIPTIVE ASTRONOMY <ol> <li>S Units</li> <li>Lecture: 3 hours</li> <li>A nonmathematical survey course in astronomy for nonscience majors. Topics include history of astronomy, telescopes, solar system, stars, galax- ies, origin of universe, and extra-terrestrial life. Field trips may be required.</li> </ol> </li> <li>143 ASTRONOMY LABORATORY <ol> <li>Lonit</li> </ol> </li> </ul>	101b PRINCIPLES OF ECONOMICS       4 Units         Lecture: 4 hours       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 33 for Certificate Requirements         103 EMERGENCY MEDICAL SERVICES         Technician TRAINING         Prerequisite: Completion of advanced first aid course within the last two years or consent of instructor         Lecture: 6 hours         An intensive course to assist the student in dynalensine of kill is accompiliant of illness and in	<ul> <li>170 WORK EXPERIENCE IN 1-4 Units EMERGENCY MEDICAL SERVICE</li> <li>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.</li> <li>75 hours paid employment equals 1 unit of credit</li> <li>60 hours unpaid employment equals 1 unit of credit</li> <li>Provides students an opportunity to experience supervised employment in Fire Technology. The student's employment must be related to educational or occupational goal.</li> <li>Offered for Credit/No Credit only.</li> <li>May be repeated for no more than a total of 16 units of credit less any units earned in any other Work Experience course.</li> </ul>
59 GEOLOGY OF .5-2 Units	Prerequisite: Previous or concurrent enrollment in Earth	developing skill in recognition of illness and in- juries and proper procedures in administering	
59 GEOLOGY OF .5-2 Units THE MOTHER LODE	Science 142 or consent of instructor	emergency care.	51 COLLEGE COMPOSITION 3 Units
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	Laboratory: 3 hours Development of observatory skills identifying ma- jor 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.	107 EMERGENCY MEDICAL       1.5 Units         TECHNICIAN REFRESHER       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.	<ul> <li><i>Lecture: 3 hours</i>         Training in basic composition skills, reading, interpretation, and discussion of college-level-materials; basic mechanics, sentence structure, paragraph development, essay and report organization.     </li> <li>75 WRITING FUNDAMENTALS 1 Unit</li> </ul>
		muy de repetiteu nuce times.	Lecture: 1 hour
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.	<ul> <li>161 FUNDAMENTALS OF 3 Units METEOROLOGY         <ul> <li>Lecture: 2 hours</li> <li>Laboratory: 3 hours</li> <li>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.</li> <li>Field trips may be required.</li> </ul> </li> <li>171 FUNDAMENTALS 3 Units</li> </ul>	108a EMERGENCY MEDICAL9 UnitsTECHNICIAN IIPrerequisite: E.M.T. certification, one year E.M.T. practice, CPR certificationLecture: 8 hoursLaboratory: 4 hoursDesigned to provide students with the knowledge and skills necessary to be certified as an Emergen- cy Medical Technician II in California. Laboratory assignments will be conducted in hospitals.108b EMERGENCY MEDICAL9 Units	<ul> <li>Individual instruction in the fundamentals of writing. May be repeated one time.</li> <li>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</li> <li>Lecture: 3 hours</li> <li>Development of reading and composition skills with emphases on applying techniques of logic in interpreting and writing the expository essay and</li> </ul>
	OF OCEANOGRAPHY	TECHNICIAN II	reading and interpretation of the short story.
125 GEOLOGY OF 3 Units THE NATIONAL PARKS Lecture: 3 hours Interpretation of the geologic features of our na- tional parks and monuments with an introduction to the geologic processes responsible for their for- mation. Students may choose a particular park for their in-depth study. Field trips may be required.	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.	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, Em- phasis will be on the musculoskeletal system, obstetrics, pediatrics, multiple injury and casualty situations and psychiatric emergencies.	101b READING AND COMPOSITION:3 UnitsAdvancedPrerequisite: English 101a with a grade of "C" or better or consent of instructorLecture: 3 hoursFurther development of reading and composition skills with an emphasis on reading and inter- preting one novel with secondary sources, poetry,
133 GLOBALTECTONIC 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.	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 and fiscal policies, economic stability- instability, public finance, and special economic problems.		<ul> <li>and drama, with the composition of at least one longer, documented paper.</li> <li>110 CREATIVE WRITING 3 Units Prerequisite: English 101a with a grade of "C" or better or consent of instructor</li> <li>Lecture: 3 hours</li> <li>Instruction and practice in writing poetry, fiction, and drama. Analysis of contemporary works with respect to literary techniques.</li> <li>May be repeated one time.</li> </ul>

ECONOMICS/EMERGENCY MEDICAL SERVICES/ENGLISH

#### ENGLISH/FIRE TECHNOLOGY

#### **111 FILM APPRECIATION**

Lecture: 2.5 hours Laboratory: 1.5 hours

Development of technical awareness and critical judgment in individual response to cinema.

#### **117a LITERATURE OF** 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 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** 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

#### **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 ENGLISH LITERATURE

## 3 Units

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**

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 TO SHAKESPEARE**

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

#### Lecture: 3 hours

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 33 for Certificate Requirements

#### 50 **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 1 Unit **EXTINGUISHMENT THEORY**

Lecture: I hour

Technical training in the study of the combustion process, extinguishing agents, and their interactions. Meets Firefighter I certification requirements for Unit B.

#### **PROTECTIVE EQUIPMENT** 1 Unit 52 **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.

#### 1.5 Units 53 SELF-CONTAINED **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.

#### 1 Unit **ROPES, KNOTS, AND HITCHES** 54

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.

#### 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.

2.5 Units

#### 56 FORCIBLE ENTRY Lecture: 1 hour

#### 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 57 AND CPR

1.5 Units

Lecture: 1.5 hours

or 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 58 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.

#### 59 **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.

#### 60 **HOSE LOADS AND USES** 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.

#### 61 **GROUND LADDERS** Lecture: 2.5 hours

2.5 Units

2 Units

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.

70

#### 68 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.

#### **69 VENTILATION** 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:** 70 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

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

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**

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

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.

1.5 Units

.5 Unit

.5 Unit

.5 Unit

## .5 Unit

## .5 Unit

#### FIRE TECHNOLOGY

7

5	<b>CERTIFIED FIREFIGHTER II</b>	1.5 Units
	Prerequisite: Possession of Certified Firefighter	I certificate
	Lecture: 1 hour	

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

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

Lecture: .5 hour

.5 Unit

.5 Unit

.5 Unit

.5 Unit

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.

## **79 WILDLAND FIRE FIGHTING** .5 Unit 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

#### 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

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 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.

### 84 VEHICLE EXTRICATION

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 3 Units FIRE TECHNOLOGY

#### 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.

# 104FUNDAMENTALS OF FIRE<br/>BEHAVIOR AND CONTROL3 Units

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.

3 Units

## **106b FIRE PREVENTION 1b**

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 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

2 Units

2 Units

### 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

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**

## Lecture: 3 hours

3 Units

3 Units

3 Units

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

Lecture: 3 hours

Factors affecting wildland fire prevention, fire behavior, and control techniques.

#### 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**

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.

## .5 Unit 108 FI

.5 Unit

#### 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 instructor

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**

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

2 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.

### 170 SPECIAL TOPICS IN FIRE TECHNOLOGY

.5-3 Units

Prerequisite: Will vary with topic Lecture: .5-3 hours and/or

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 1 unit of credit

60 hours unpaid employment equals 1 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

or 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 or

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

4 Units

3 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**

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 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 longterm production of timber, fuelwood, Christmas trees and other resources. Forestry education, career opportunities, licensing and ethics. Field trips are required.

### 110 DENDROLOGY

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.

3 Units

2 Units

3 Units

WORK EXPERIENCE See NATURAL RESOURCES 179

## FORESTRY TECHNOLOGY

See Page 33 for Certificate Requirements

#### **INTRODUCTION TO** 50 **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.

#### FOREST SURVEYING 3 Units 53 **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**

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 interdisciplinary nature of cultural and political geography, anthropology, environmental science, history, and sociology.

#### 105 PHYSICAL GEOGRAPHY

Lecture: 3 hours

3 Units

3 Units

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 PLANNING**

2 Units

Lecture: 2 hours Designed to clarify thinking regarding the selection and preparation for a career. Personal assessment of interests, aptitudes and values (May include use of selected interest and aptitude inventories.); relationship between education and occupations; occupational trends; resources useful in career planning; and development of skills in resume writing and interviewing. Offered for Credit/No Credit only.

### **105 JOB HUNTING STRATEGIES**

Lecture: .5 hour

.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.

## **HEALTH EDUCATION**

#### 50 CARDIOPULMONARY RESUSCITATION

#### Lecture: 9 hours total

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**

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

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

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**

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

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

(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.

2 Units

2 Units

3 Units

74

.5 Unit

1 Unit

3 Units

.5 Unit

1 Unit

3 Units

1-4 Units

.5 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**

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**

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 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**

#### 1.5 Units **BUS DRIVER TRAINING** 50 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

#### 59 LOCAL HISTORY THE MOTHER LODE

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.

#### **104b WORLD CIVILIZATIONS:** 3 Units 1650 to Present

Lecture: 3 hours

Survey of civilizations since 1650: emergence of strong national states, their struggle for world power, and their impact on the non-western world.

### 117a UNITED STATES: to 1865

Lecture: 3 hours Survey of United States history from Colonization to Reconstruction. Analysis of English Imperialism, Revolution, Nationalism, Political Democracy, Sectionalism, and Civil War.

3 Units

2 Units

3 Units

#### 3 Units 117b UNITED STATES: 1865 to Present

Lecture: 3 hours

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

Lecture: 3 hours

Survey of California history from pre-Columbia period to the present. Emphasis will include the Indians, Spaniards, Mexicans, Anglo-Americans and various minorities. Considerable attention will be devoted to California's influential role in national and world events.

#### **133 ORAL HISTORY**

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**

Lecture: 3 hours History and lore of the Gold Rush country with emphasis on the Central Sierra communities.

#### 3 Units **155 THE AMERICAN FRONTIER**

Lecture: 3 hours Influence of successive frontier zones and hostile environments in reshaping imported customs and traits into uniquely "American" characteristics. Emphasis will be on the 19th Century.

#### **HOSPITALITY MANAGEMENT**

See Page 33-34 for Certificate Requirements

### **101 INTRODUCTION TO** THE HOSPITALITY INDUSTRY

Lecture: 3 hours

3 Units

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.

#### **103 MARKETING OF HOSPITALITY SERVICES**

3 Units

Lecture: 3 hours

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/ 1.5 Units **HOTEL CATERING**

Lecture: 1.5 hour

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**

1 Unit

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

Lecture: 1.5 hour Laboratory: 4.5 hours

Service techniques, table settings, and etiquette used in all aspects of dining room service. Emphasis on developing the finer points in skills and showmanship.

Field trips may be required.

#### **132 DINING ROOM MANAGEMENT**

1.5 Units

3 Units

2 Units

Lecture: .5 hours Laboratory: 3 hours

Management of service in the dining room; coordinating the dining room staff to ensure proper service techniques and procedures are being followed, acting as host to ensure customer satisfaction.

#### **133a INTRODUCTION TO** 3.5 Units **COMMERCIAL FOOD PREPARATION**

Lecture: 1.5 hours Laboratory: 6 hours

General introduction to safety, sanitation, culinary nomenclature, cook's tools, recipe conversion and food costs, preparation of beverages, breakfasts and salads; commissary control and ordering of supplies.

#### **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 vegetables, sauces, rice, and farinaceous products; basic techniques of broiling, roasting, sauteing, and deep fat frying.

### **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.

## **136 COMMERCIAL BAKING**

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.

76

#### HOSPITALITY MANAGEMENT/HUMANITIES

140a		3 Units		
	Beginning Prerequisite: Hospitality Management 133b with a "C" or better or consent of instructor Lecture: 1 hour Laboratory: 6 hours Classical cuisine for the advanced food s students. Instruction in preparation, soups, sauces, and boiler stations.	ervices	51	IN Al Le La Al in ma
40b	CLASSICAL CUISINE: Advanced Prerequisite: Hospitality Management 140a with a generation of the sector of the secto	grade of t 140a. asis on heat as	60	tic du IN TC Ev do co ot co ot co ot
42	GARDE MANAGER Prerequisite: Hospitality Management Food Service	2 Units ce Tech-	79	W

nology certificate or satisfactory completion of equivalent test Lecture: 2 hours Study of the various meats, fruits, vegetables,

sauces, and their uses in cold buffet work. Introduction to fancy culinary work; use of the tools necessary to this art. Field trips may be required.

#### **144 MEAT ANALYSIS** Lecture: I hour

2 Units

Laboratory: 3 hours Study of various grades and cuts of meat and their use in restaurant sales. Cost control and fabrication.

Field trips may be required.

#### **147 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.

#### 2 Units **148 HISTORY AND PRODUCTION OF CALIFORNIA WINES**

Lecture: 2 hours Introduction to the history, development, production and types of wines. Field trips are required.

#### **Recreation Industry**

#### **NTRODUCTION TO PARKS** 3 Units ND RECREATION

ecture: 2 hours aboratory: 3 hours

n introductory course for individuals interested parks and recreation, with exposure to park anagement, design, maintenance and construcon: recreational aspects, job opportunities and uties.

#### **NTRODUCTION TO TRAVEL-**2 Units **OURISM INDUSTRY/TOURS** ecture: 2 hours

volution of tourism as an industry. Survey of omestic and international travel, laws, services, ommunications systems, and interaction with ther sectors of the hospitality industry; the prinples and procedures of group tour management nd planning.

eld trips are required.

#### **ORK 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 1 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 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.

3 Units

3 Units

#### **102 MODERN CULTURE**

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 Beginning

Lecture: 2 hours

Designed to prepare fire suppression officers and police patrol officers 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

Prerequisite: 24 Units in Law Enforcement or completion of recognized academy or consent of instructor Lecture: 5-3 hours

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 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**

#### 50 **BASIC MATHEMATICS**

## 2 Units

Lecture: 2 hours or Lecture: I hour Laboratory: 3 hours

A basic course in arithmetic.



Photo by Dirk Travis

#### **BEGINNING ALGEBRA** 55

Lecture: 4 hours or

2 Units

.5-3 Units

1 Unit

Lecture: 3 hours Laboratory: 3 hours

Algebraic structures of real numbers, development of algebraic techniques, rational operations, radicals, polynomials, factoring, linear equations, inequalities, and quadratic equations.

#### 58 **ENTRY LEVEL GEOMETRY**

Prerequisite: One year of high school algebra or Mathematics 55 recommended Laboratory: 3 hours

Points, lines, angles, polygons, area, circles, volume, and the Pythagorean Theorem. Offered for Credit/No Credit only.

#### GEOMETRY 60

3 Units Prerequisite: Mathematics 55 or one year high school algebra recommended

Lecture: 3 hours or

Lecture: 2 hours

Laboratory: 3 hour

Rectilinear figures, circles, parallels, perpendiculars, areas, similarity, constructions, logic, and proofs.

#### **101 INTERMEDIATE ALGEBRA**

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

Lecture: 4 hours

or Lecture: 3 hours

Laboratory: 3 hours

Extension of elementary algebra; includes complex numbers.

## **102 TRIGONOMETRY**

#### 4 Units

4 Units

4 Units

1 Unit

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, identities, graphs, and logarithms.

**103 COLLEGE ALGEBRA** 4 Units Prerequisite: Mathematics 101 with a grade of "C" or better or equivalent high school course or consent of instructor Lecture: 4 hours

> or 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.

3 Units

4 Units

4 Units

4 Units

4 Units

(Credit for this course will be awarded for either Mathematics 104 or Philosophy 104, but not both.)

#### **105 ELEMENTS OF STATISTICS**

Prerequisite: Mathematics 101 with a grade of "C" or better or second year high school algebra or consent of instructor

Lecture: 4 hours or

#### 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**

Prerequisite: Mathematics 101 with a grade of "C" or better or two years of high school algebra or consent of instructor

Lecture: 4 hours

#### or Lecture: 3 hours Laboratory: 3 hours Symbolic, logic, sets, probability, vectors, matrices, and game theory.

#### **120a CALCULUS WITH 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

or Lecture: 3 hours

#### Laboratory: 3 hours

Inequalities, relations, functions, graphs, limits, the derivative, continuity, lines, circles, and conics with geometric and physical interpretations of the derivative.

## **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.

#### **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 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.

#### **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. Study will include significant developments in American music from its origins to the present.

## **120a MUSIC THEORY**

#### Lecture: 4 hours Activity: 2 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

3 Units

2 Units

Prerequisite: Music 120a with a grade of "C" or better or consent of instructor Lecture: 4 hours

### Activity: 2 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**

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**

## Lecture: I hour

Activity: 2 hours Study of basic techniques of piano playing, fundamentals of music theory, sight-reading, improvisation, and harmonization.

#### **131b ELEMENTARY CLASS PIANO** 2 Units

Prerequisite: Music 131a with a grade of "C" or better or consent of instructor. Lecture: 1 hour Activity: 2 hours Continuation of Music 131a.

## **136a ELEMENTARY CLASS VOICE**

#### 2 Units Lecture: 1 hour Activity: 2 hours Group instruction in basic singing technique, in-

cluding breath support, tone production, diction, intonation, sight-reading, and stage presence.

#### **136b ELEMENTARY CLASS VOICE** 2 Units

Prerequisite: Music 136a with a grade of "C" or better or consent of instructor. Lecture: 1 hour Activity: 2 hours Continuation of Music 136a.

## 5 Units

MUSIC

2 Units

2 Units

## **141a INTERMEDIATE CLASS PIANO**

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**

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

Lecture: 1 hour Activity: 2 hours Continuation of Music 141a.

#### **146a INTERMEDIATE CLASS VOICE** 2 Units

Prerequisite: Music 136b with a grade of "C" or better or consent of instructor.

Lecture: 1 hour Activity: 2 hours

Group instruction in the refinement of singing technique, using classical and popular solo repertoire from 1600 to the present and emphasizing style and interpretation.

#### **146b INTERMEDIATE CLASS VOICE** 2 Units

Prerequisite: Music 146a with a grade of "C" or better or consent of instructor.

Lecture: 1 hour Activity: 2 hours Continuation of Music 146a.

## **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
<b>152 APPLIED MUSIC: Woodwinds</b>	1 Unit
<b>153 APPLIED MUSIC: Brass</b>	1 Unit
154 APPLIED MUSIC: Strings	1 Unit
<b>155 APPLIED MUSIC: Percussion</b>	1 Unit
156 APPLIED MUSIC: Voice	1 Unit
<b>157 APPLIED MUSIC: Synthesizer</b>	1 Unit

### 160 CHOIR

1 Unit

Activity: 2-6 hours Study and performance of mixed choral works of various periods and styles. May be repeated three times.

### TECHNOLOGY

	Prerequisite: Audition
	Activity: 2-6 hours
	Study and performance of vocal jazz and im-
	provisation in an ensemble of limited size.
	May be repeated three times.
65	THEATER PRODUCTION: 1 Unit
	Music Emphasis
	Prerequisite: Audition Activity: 2-6 hours
	Directed activities in theatre production for public
	performance with a concentration in vocal or in-
	strumental music.
	May be repeated three times.
66	COMMUNITY CHORUS 1 Unit
	Activity: 2-6 hours
	Study and performance of mixed choral works of
	various periods and styles.
	May be repeated three times.
69	MADRIGAL ENSEMBLE 1 Unit
	Prerequisite: Audition
	Activity: 2-6 hours Study and performance of vocal chamber music
	with emphasis on the Renaissance and Contem-
	porary periods.
170	COLLEGE BAND 1 Unit
	Activity: 2-6 hours
	Study and performance of band repertoire of all
	styles. May be repeated three times.
	muy be repeated three times.
173	JAZZ ENSEMBLE 1 Unit
	Prerequisite: Audition. Concurrent enrollment in Music 109 recommended
	Activity: 2-6 hours
	Study and performance of instrumental jazz and
	improvisation; techniques of improvisation will be
	explored.
	May be repeated three times.
176	
	Prerequisite: Audition for wind, brass, and percussion players as needed
	Activity: 2-6 hours
	Study and performance of orchestral literature of
	various styles and media. May be repeated three times.

#### **178 ENSEMBLE:** Instrumental Emphasis

Prerequisite: Audition. Concurrent enrollment in Music 109 recommended Activity: 2-6 hours Study and performance of music for small ensembles, duets, and chamber groups. May be repeated three times.

1 Unit

#### NATURAL RESOURCES

See Page 34 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** 

2 Units

LAW ENFORCEMENT Lecture: 2 hours

Knowledge and skills required in areas of constitutional, criminal, and civil law as related to law enforcement activities conducted by resource agencies.

Field trips may be required.

#### **130 WILD EDIBLE** AND USEFUL PLANTS

3 Units

2 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 34 for Certificate Requirements

#### NATURAL HISTORY 50 AND ECOLOGY

Lecture: 2 hours 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 52 MANAGEMENT

Prerequisite: Natural Resources Technology 60 recommended Lecture: 2 hours

3 Units

2 Units

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.

#### **INTERPRETIVE GUIDED TOURS** 55 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** 2 Units **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

Lecture: 3 hours

3 Units

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

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 1 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** (See also Mathematics 104)

3 Units

3 Units

3 Units

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**

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** 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.

#### PHYSICAL EDUCATION

018				
	PHYSICAL EDUCATION	Activity Courses		129 DANCE, MODERN I .5-2 Units
	101INTRODUCTION TO PHYSICAL EDUCATION2 Units During Lecture: 2 hoursThe background and principles of physical education and sports. Study of the aims and objectives of modern physical education with a view toward	120 AEROBIC EXERCISE I .5-2 Units Activity: 1-4 hours Designed to promote cardiovascular fitness, flex- ibility, muscle tone, and general overall condition- ing.		Activity: 1-4 hours Introdution to modern dance movement. Fun- damentals, basic movement, and composition presented and practiced as an opportunity for creative self-expression.
	<ul> <li>103 BASKETBALL: ADVANCED 2 Units THEORY AND PRACTICE</li> <li>Lecture: .5 hour Activity: 3 hours</li> <li>Advanced concepts, strategy, and practice necessary in the playing and understanding of col- legiate basketball. May be repeated two times.</li> </ul>	<ul> <li>AEROBIC EXERCISE II .5-2 Units Prerequisite: P.E. 120 with a grade of "C" or better or consent of instructor Activity: 1-4 hours A rigorous exercise class designed to increase car- diovascular fitness. Each workout will include ex- ercises to build strength, flexibility, and en- durance. May be repeated two times.</li> </ul>		<ul> <li>130 DANCE, MODERN II .5-2 Units Prerequisite: P.E. 129 with a grade of "C" or better or consent of instructor Activity: 1-4 hours Continuing work on modern dance movement and elements of rhythm, space and dynamics, em- phasis on contemporary dance techniques, in- dividual and group choreography, and cultural in- fluences on expressive dance forms. May be repeated two times.</li> </ul>
	105 PERSONAL FITNESS 3 Units CONCEPTS AND EVALUATIONS Lecture: 2 hours Activity: 2 hours A study of "how," "why," and "what" of physical activity and exercise. This course is in- tended to help students make important decisions about their own personal exercise program and their personal physical fitness directions for a lifetime.	<ul> <li><b>123 BALLET I</b> .5-2 Units <i>Activity: 1-4 hours</i> Introduction to fundamental classical ballet forms, including basic concepts, positions, and combinations designed to acquaint the student with the technical and expressive elements of ballet.     </li> <li><b>124 BALLET II</b> .5-2 Units     </li> </ul>		<ul> <li>132 FENCING .5-2 Units Activity: 1-4 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.</li> <li>134 GOLFI .5-2 Units Activity: 1-4 hours</li> </ul>
	112THEATRE PRODUCTION: DANCE EMPHASIS1-2 Units DancePrerequisite:Audition Laboratory:3-6 hoursDirected activities in theatre production for public performance with a concentration in dance. May be repeated three times.	Prerequisite: P.E. 123 with a grade of "C" or better or consent of instructor Activity: 1-4 hours Continuing study of techniques and principles of classical ballet including phrasing, combinations, and stylistic elements. May be repeated two times.		<ul> <li>Instruction and practice in fundamentals.</li> <li><b>135 GOLF II</b> .5-2 Units <i>Solution Prerequisite: P.E. 134 with a grade of "C" or better or consent</i> <i>of instructor</i> <i>Activity: 1-4 hours</i> Instruction and practice in skills, rules and </li> </ul>
	116DANCE PRODUCTION3 UnitsPrerequisite: Audition and concurrent enrollment in Physical Education 117Activity: 6 hoursDance production for public performance; theory and practice in choregraphy, performance styles, and dance rehearsal combined with theatrical structure, non-verbal dramatic techniques, and	<ul> <li>125 BASKETBALL .5-2 Units Activity: 1-4 hours Instruction, practice, and participation in game play. Emphasis on rules, individual and team skills, and team strategy. May be repeated three times.</li> <li>127 DANCE, JAZZ I .5-2 Units</li> </ul>		<ul> <li>137 DISTANCE RUNNING .5-2 Units Activity: 1-4 hours Instruction and practice in the sport of distance running with emphasis on training techniques to enable students to safely negotiate distances of 2</li> </ul>
	technical staging designed for concert presenta- tion. May be repeated three times.	Activity: 1-4 hours Introduction to the fundamentals of jazz dance with emphasis on basic technique, rhythmical		or more miles. May be repeated three times.
	117       CHOREOGRAPHY AND COMPOSITION       3 Units         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	<ul> <li>analysis, and various cultural and historical styles.</li> <li>128 DANCE, JAZZ II .5-2 Units Prerequisite: P.E. 127 with a grade of "C" or better or consent of instructor</li> </ul>		<b>138 SKIING CONDITIONING</b> .5-2 Units <i>Activity: 1-4 hours</i> Instruction in progressive exercises and condition- ing for snow skiing. <i>May be repeated three times.</i>
	Lecture: 2 hours Activity: 2 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 com- munication skills of the body.	Activity: 1-4 hours Continuing work in jazz dance with emphasis on developing stylistic elements and performance techniques. Specific attention given to learning ex- tended movement combinations and composi- tional forms indigenous to American jazz. May be repeated two times.	1	<b>139 SKIING: ALPINE</b> .5-2 Units <i>Activity: 1-4 hours</i> Instruction and practice in basic fundamentals of snow skiing on the slopes. Care and selection of equipment, terminology, and safety included. <i>Offered for Credit/No Credit only.</i>

## 140 SKIING: CROSS COUNTRY

Activity: 1-4 hours

.5-2 Units

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 TENNIS I

.5-2 Units

Activity: 1-4 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**

.5-2 Units

Prerequisite: P.E. 143 with a grade of "C" or better or consent of instructor Activity : 1-4 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 VOLLEYBALL I

.5-2 Units

Activity: 1-4 hours

Basic techniques with emphasis on offensive and defensive tactics of team play. Rules and intraclass competition included.

## 147 VOLLEYBALL II

.5-2 Units Prerequisite: P.E. 146 with a grade of "C" or better or consent of instructor Activity: 1-4 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** Activity: 1-4 hours

.5-2 Units

Instruction in use of weights and body building equipment with emphasis upon individual program development.

#### PHYSICAL EDUCATION/PHYSICS

#### **150 WEIGHT TRAINING II**

Prerequisite: P.E. 149 with a grade of "C" or better or consent of instructor Activity: 1-4 hours

.5-2 Units

.5-2 Units

.5-3 Units

2 Units

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.

#### 155 SOCCER

Activity: 1-4 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 EDUCATION**

Activity: 1-6 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**

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

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**

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:** 2-4 Units PHASE IV Prerequisite: Primary Physician Referral Lecture: .5-1 hour Activity: 2-6 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.) **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 ADULT FITNESS PROGRAM I** 1-3.5 Units

Lecture: .5-1.5 hours Activity: 1.5-5 hours

An overview of the essential principles of physical fitness for adults. Individual evaluation of aerobic, flexibility, strength, and body composition components with the ensuing development of a personalized exercise prescription.

#### **173b ADULT FITNESS PROGRAM II** 1-3 Units

Prerequisite: Physical Education 173a with a grade of "C" or hetter Activity: 2-6 hours

Individual evaluation of cardiovascular function and development of a personalized prescription program for aerobic fitness improvement; monitoring and supervision of exercise regimen and related fitness activities for continuing health and fitness.

May be repeated two times.

#### 175 HEALTH AND PHYSICAL 1 Unit **FITNESS WORKSHOP**

Lecture: .5 hour Activity: 1 hour

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

Prerequisite: Mathematics 55 with a grade of "C" or better or consent of instructor Lecture: 3 hours

3 Units

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**

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

5 Units

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 powers 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 doctrines and issues; and influence of political traditions on American politics. Emphasis will be on contemporary political issues.

## **115 INTERNATIONAL RELATIONS**

Lecture: 3 hours Dynamics of interstate power 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** Lecture: 3 hours

3 Units

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

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**

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

3 Units

Lecture: 3 hours

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 selfawareness and to learn the "relaxation response."

### **130 PERSONAL AND** SOCIAL ADJUSTMENT

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. May be repeated one time.

## 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.

## PSYCHOLOGY/SEARCH AND RESCUE

## 145b DEVELOPMENTAL PSYCHOLOGY 3 Units 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.

3 Units 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 36 for Certificate Requirements

## **103 ENVIRONMENTAL INJURIES**

Prerequisite: Previous enrollment in Health Education 113 or Health Occupations 103 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**

Prerequisite: Health Education 113 or Health Occupations 103 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

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 correct emergency responses to survival in arid and cold climates. Also included will be instruction regarding proper clothing and makeup of a simple, inexpensive survival kit.

#### 1 Unit **109 COLD WEATHER SURVIVAL**

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

#### 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 **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

1 Unit

1 Unit

1 Unit

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

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.

#### 1 Unit 126 GRID SEARCH TECHNIQUES

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.

2 Units

## **130 INTRODUCTION TO RESCUE TECHNIQUES**

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**

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**

.5 Unit

Laboratory: 1.5 hours Designed to develop a sense of confidence in rescue personnel dealing with swiftwater rescue situations. Topics include: swiftwater physiology, equipment, swimming, line tending, search techniques, and use of helicopters.

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.

1 Unit

2 Units

2 Units

2 Units

1 Unit

1 Unit

## **153 VEHICLE EXTRICATION**

Offered for Credit/No Credit only.

**151 RAPELLING SAFETY/TOWER** 

**RESCUE FOR THE FIRE SERVICE** 

Lecture: 1 hour

Lecture: 1 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.

Designed to update rescue personnel in equipment

and technical developments in rappelling. Em-

phasis 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 Field trips may be required.

#### 154 FIRE SERVICE LADDERS **AS RESCUE TOOLS**

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 TECHNIOUES**

.5 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** 1 Unit

Lecture: 1 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** FOR THE FIRE SERVICE

1.5 Units

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.

1 Unit

1 Unit

1 Unit

	HEAVY RESCUE 3 Units	53 D
159	TDAINING	P
	Prerequisite: Search and Rescue 158 or consent of instructor	
	Lecture: 3 hours Review and update of heavy duty rescue skills and	
	i designed to prepare infamilied personant	S
	to teach those skills and techniques to others.	F
	Offered for Credit/No Credit only.	9
170	SPECIAL TOPICS IN RESCUE .5-3 Units	
170	FOR THE FIRE SERVICE	
	Prerequisite: Will vary with topic	
	Lecture: .5-3 hours and/or	
	to incertain rescue will be covered to meet	55
	i i i i i i i i i i i i i i i i i i i	
	- the specialized development of skins and	
	Emphasis on specialized development knowledge, area planning for rescue, development and implementation of training and rescue evolu-	
	tions. Offered for Credit/No Credit only.	
	Offered for creaments	61
		01
		-
		1.1
		62
	SKILLS DEVELOPMENT	
	3 Units	
5	WRITTEN LANGUAGE	
1-	DEVELOPMENT Prerequisite: Verified learning disability	
		75
	Lecture: 3 hours Designed for students with learning disabilities who have difficulty succeeding in a traditional	1.00
	i have boold communication skins in	
1		78
	writing. The emphasis will be on the development of compensatory strategies for particular skills	
	deficits.	
	50b WRITTEN LANGUAGE 3 Units	
	DIVIEL ODMENT	. 87
	<b>DEVELOTION</b> Prerequisite: Verified learning disability and satisfactory com- pletion of Skills Development 50a	
	Lecture: 3 hours Continuation of Skills Development 50a with par- ticular emphasis on reading comprehension and	1
	ticular emphasis on reading compromision	
	paragraph writing.	88
	51 DIAGNOSTIC LEARNING 1 Uni	.t
	LABORATORY	
	Prerequisite: Verified learning disability Laboratory: 3 hours	
	in a standard in analyzing stand	ly n- 9
		1- 9 1-
	ing strategies necessary for academic success in co	

lege courses. Offered for Credit/No Credit only.

	1 Unit	
	DIAGNOSTIC SPEECH I Unit	
ŀ	Prerequisite: Speech and language evaluation by Speech Pathologist	
	Laboratory: 3 hours Provides speech remediation for students with disorders.	
1	Provides speech remediation for diaddisorders. speech, language, and hearing disorders.	
	speech, language, and nearing discussion of the speech and small Assistance is provided on an individual and small	
	group basis in the following areas, and Emphasis	
	is an addressing student's necus for creating	•
	in academic or vocational settings.	
	Offered for Credit/No Credit only.	
	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	
1		
	i i i i i i i i i i i i i i i i i i i	
	Individualized instruction in rundent from whole tions. Students may start anywhere from whole	
	numbers to formula. May be repeated three times.	
	1 T Init	
52	REVIEW ALGEBRA	
	Prerequisite: High school algebra Laboratory: 3 hours	
	Laboratory: 3 hours Individualized instruction in review of high school	
	algebra.	
75	COLLEGE SPELLING 1-2 Units	
15		
	Laboratory: 3-6 hours Designed to help students improve their spelling	
	skills. May be repeated one time.	
	1 OTT HE	
78	READING DEVELOP MENT	
	Laboratory: 3-6 hours Individualized instruction and self-instructional	
	materials in specific reading skins units.	
	May be repeated three times.	
8'	7 VOCABULARY DEVELOPMENT 1 Unit	
0		
	Designed to help readers improve their vocabulary	
	skills. May be repeated one time.	
	May be repeated one miles	
8	8 SPEED READING	
	Laboratory: 3-6 hours Designed to help competent readers improve their	r
	reading rate.	
	May be repeated one time.	
	1-2 Unit	IS
-	90 STUDY SKILLS Laboratory: 3-6 hours	
	Improvement of the basic study skills.	

May be repeated two times.

#### 95 **TEST-TAKING SKILLS** Lecture: .5 hour

.5-2 Units

Laboratory: 1.5 hours or Laboratory: 1.5-6 hours

Designed to help students develop skills in taking tests and examinations.

#### APPLIED TEST-TAKING SKILLS 96 .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.

#### 98 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** Lecture: 3 hours

3 Units

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 34 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 the interactions, interrelationships and processes of society such as culture, socialization, stratification, minorities, primary and secondary groups, social change.

#### **102 AMERICAN SOCIAL PATTERNS** 3 Units Lecture: 3 hours

The study of social organization focusing on the major components, such as family, religion, education, economics, politics, and technology; science, sports; group networks and formal organizations; and social change.

### **110 DEVIANCE AND CONFLICT**

Lecture: 3 hours

3 Units

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.

89

### **112 FAMILY, MARRIAGE AND THE INDIVIDUAL** Lecture: 3 hours

The family as a social unit of interacting personalities; historical and structural development of the family life in different cultures; functions, duties, and marital interaction of family life; influence of contemporary society on family and family disorganization.

#### 127 AGING

3 Units

3 Units

Lecture: 3 hours

Examination of the current social, economic, physiological and psychological theories about the aged; institutional, cultural, and environmental factors which influence the attitudes toward the aged will be emphasized.

Field trips may be required.

#### **128 DEATH AND DYING**

3 Units

1-4 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**

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 I unit of credit

60 hours unpaid employment equals 1 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

3 Units

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

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.

#### SPEECH/TEACHER AIDE TRAINING/WELDING TECHNOLOGY

#### **150a SIGN LANGUAGE**

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

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 36 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.

#### **READING FUNDAMENTALS** 2 Units 65 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** 1-4 Units **TEACHER AIDE**

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 ap- plies to shop and field techniques.		
103	ADVANCED ARC	3 Units	

ADVANCED ARC WELDING TECHNIOUES

Prerequisite: Welding Technology 101 with a grade of "C" or better or consent of instructor Lecture: I 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** 

Studio: 3-6 hours

1.5-3 Units

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** 

Child Development 179

Health Occupations 179

Office Occupations 179

Sociology 179

Teacher Aide 179

Hospitality Management 179

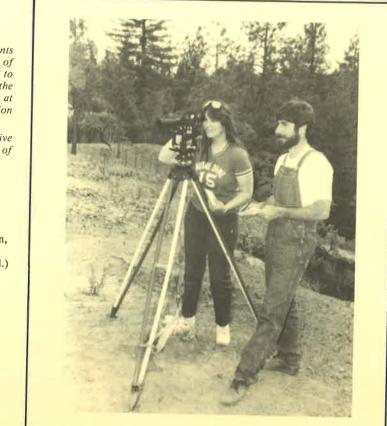
Nat. Resources Technology 179

Fire Technology 179

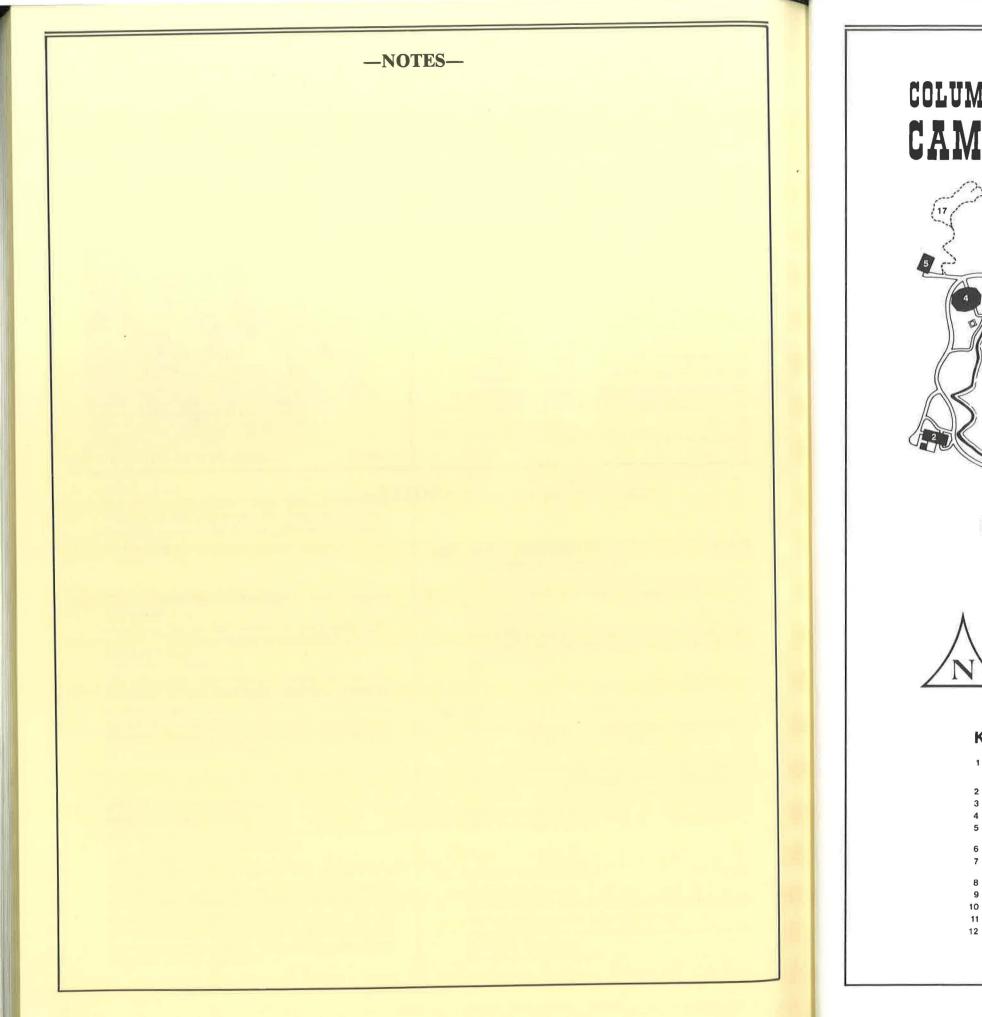
Emergency Medical Services 179

Automotive Technology Business and Commerce (Includes Business Administration. Computer Science and Disciplines not otherwise listed.) Child Development **Emergency Medical Services** Fire Technology Health Occupations Hospitality Management Forestry, Natural Resources Office Occupations Human Services Teacher Aide



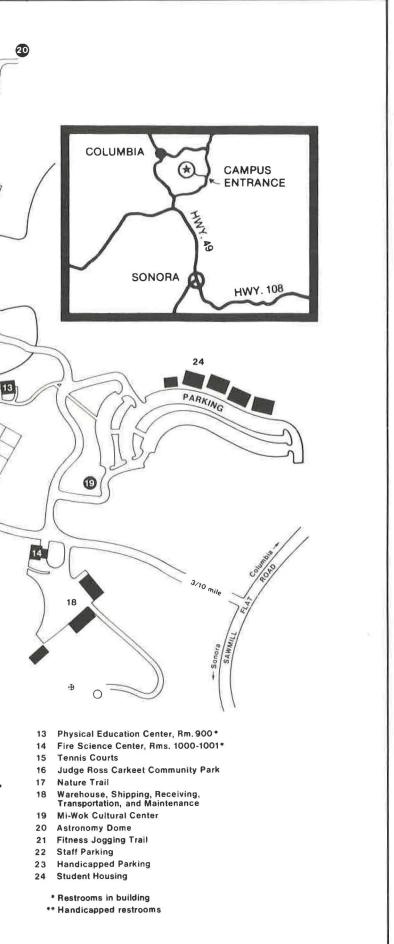


-NOTES-



# COLUMBIA COLLEGE CAMPUS MAP 12 7 6 SAN DIEGO RESERVOIR 21 13 10 11 230 22 16

- KEY:
- 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\*



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